

A LADOK3 Python API

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Abstract

We provide a Python wrapper for the LADOK3 REST API. This wrapper provide a useful object-oriented framework for working with LADOK and direct API calls that return the unprocessed JSON data directly from LADOK.

We also provide a command-line interface (CLI) for the library. We then construct some useful (shell) scripts using this CLI. These scripts automates the reporting of results from Canvas to LADOK.

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Chapter 1

Introduction

LADOK (abbreviation of Lokalt Adb-baserat DOKumentationssystem, in Swedish) is the national documentation system for higher education in Sweden. This is the documented source code of `ladok3`, a LADOK3 API wrapper for Python.

The `ladok3` library provides a non-GUI application (a command-line interface, CLI) that, similar to access via a web browser, only provides the user with access to the LADOK data and functionality that they would actually have based on their specific user permissions in LADOK. It can be seen as a very streamlined web browser just for LADOK's web interface. While the library exploits caching to reduce the load on the LADOK server, this represents a subset of the information that would otherwise be obtained via LADOK's web GUI export functions.

You can install the `ladok3` package by running

```
1 python3 -m pip install ladok3 # to use it in Python, or
2 pipx install ladok3          # to just use the CLI
```

in the terminal.

Then you can use the CLI by running `ladok` in the terminal. The command has built-in help, simply run `ladok -h` to see the available commands. However, the first thing you want to run after installing the package is

```
3 ladok login
```

This will set up your credentials for the CLI. However, if you want to use the library in a script, you can read

```
4 ladok login -h
```

for alternative ways of providing your credentials.

For use in Python scripts, we provide the main class `LadokSession` (Section 9.1). The `LadokSession` class acts like 'factories' and will return objects representing various LADOK data. These data objects' classes inherit the `LadokData` (Section 9.2.1) and `LadokRemoteData` (Section 9.2.3) classes. Data of the type `LadokData` is not expected to change, unlike `LadokRemoteData`, which is. Objects of type `LadokRemoteData` know how to update themselves, i.e., fetch and refresh their data from LADOK. When relevant they can also write data to LADOK, i.e., update entries such as results.

One design criteria is to improve performance. We do this by caching all factory methods of any `LadokSession`. The `LadokSession` itself is also designed to be

cacheable: if the session to LADOK expires, it will automatically reauthenticate to establish a new session.

You can find a quick reference by running

```
5 pydoc ladok3 # doesn't work if installed with pipx
```

Part I

Example applications

Chapter 2

Transfer results from Canvas to LADOK

In this chapter we'll see some scripts for reporting results from Canvas to LADOK. These scripts are run as cronjobs. This means that they run unattended and only produce output when they need attention.

We want to report results for courses that are titled 'DD2520 VT25', 'DD1310 HT24', 'DD1317 HT24', and similar in Canvas. The advantage to using this command is that it will automatically report the correct dates and everyone who has participated in the grading of each student—as required by regulation. The official tools, like KTH Transfer to Ladok or SUNET's version of the same, don't do this. They don't set the dates correctly, meaning that each individual should have a separate date (date of submission). They also don't register the graders in LADOK. For each results, everyone who participated in the grading process should be registered in LADOK.

We'll have a script `<ladok.sh (never defined)>` that is run by cron. It's useful to load our profile, so that we have our normal environment.

```
4a <ladok.sh 4a>≡  
    #!/bin/bash  
    . ${HOME}/.profile
```

This definition is continued in chunk 4b.
Root chunk (not used in this document).

We also want some helper functions and a main function that is only run when the script is run. If the script is sourced, the main function is not run. This way we can use the helper functions in our terminal.

The design is that all functions output lines expected by `ladok report`. This way, we can simply pipe the output of the main function to `ladok report -fv` to report them. This also makes it easy to debug the script by running it in the terminal and seeing what it would report.

```
4b <ladok.sh 4a>+≡  
    <constants 5a>  
    <helper functions 8b>  
  
    main() {  
        <main script 5b>  
    }
```

```
# Only run if this is the main script
if [[ "${BASH_SOURCE[0]}" == "${0}" ]]; then
    main "$@" | ladok report -fv
fi
```

We need to report more than once for a course. All students might not be done by the time of reporting. When they're done, we must report the results again¹. Sometimes a student finishes a course years after it ended. To speed up execution it's better to report results for a sliding window of courses, instead of all courses. For those rare cases when a student finishes a course years after it ended, we can report the results manually for that course again—by importing and invoking the functions below in the terminal.

¹And students have a right to do this without having to reregister on a later course round.

We'll let YEARS be a regex for the years that we're interested in reporting for. We'll use the current year and the previous year. The advantage of this window is that when we pass new year's eve, the autumn courses are still current for a few weeks—but the year is the wrong one. As a side effect, during autumn we report results for any late results for the previous year too.

To construct the regex for years, we simply take a sequence of years (24 25) and make a regex ((24|25)) out of it.

```
5a <constants 5a>≡
YEAR=$(date +%y)
LOOKBACK=5
YEARS=$(echo -n "("; \
    seq $((YEAR - $LOOKBACK)) $YEAR \
    | sed -zE "s/\s/|/g" \
    | sed "s/|$/)/")
```

This code is used in chunk 4b.

2.1 Reporting results on course components

We want a script that reports the results for all courses, including all previous years, to LADOK. We want to do this for previous years as sometimes they finish assignments years after the course ended.

We'll add a function that takes a course regex and a component regex and reports the results to LADOK. To report the modules, we sometimes need to override the default summary function of canvaslms². We want something like <main script 5b> below.

²For details on canvaslms results, see Chapters 10 and 11 in its documentation, found on <https://github.com/dbosk/canvaslms/releases/tag/v4.7>. Particularly Chapter 11 discusses the summary modules. You can also read pydoc canvaslms.grades for a more brief summary.

2.1.1 DD1301 datintro

For the datintro course (DD1301), we simply have four lab assignments in the assignment group LAB1. LAB1 is the only course component in LADOK.

```
5b <main script 5b>≡
# datintro
report_components "DD1301 HT${YEARS}" \
    LAB1
```

This definition is continued in chunks 6–9.

This code is used in chunk 4b.

2.1.2 DD1317 prgi

For the prgi (DD1317) course we have four components: KAL1, LAB1, LAB2 and LAB3. In the old version of the course (DD1315), we had MAT1 instead of KAL1.

The LAB1, MAT1 and KAL1 components each contain lab assignments. The students must pass all of them for a grade.

```
6a <main script 5b>+=
# prgi
# labs
report_components "DD1317 HT${YEARS}" \
                  "LAB1"
report_components "DD1317 HT${YEARS}" \
                  "KAL1"
```

This code is used in chunk 4b.

The LAB2 component is just an exam. In some older versions it also contains a mandatory survey to get a date in the last week of the course in LADOK. In some versions we also have multiple assignments, one for each time the exam was given (hence maxgradesurvey); but in newer we reuse the same assignment for all re-exams.

```
6b <main script 5b>+=
# datorprov with optional survey
report_components "DD1317.*LAB2.*${YEARS}" \
                  LAB2 \
                  canvaslms.grades.maxgradesurvey
```

This code is used in chunk 4b.

However, now we have that mandatory survey in the LAB3 component with the project that the students finish last. This project contains three parts:

- (1) the specification (P/F),
- (2) the peer review (P/F),
- (3) the presentation of the project (A–F grades), and
- (4) the mandatory survey (numerical).

We use the `canvaslms.grades.conjunctavgsurvey` summary module to get the final grade to be the A–F grade of the presentation, but only if the specification, peer review and survey are all passed.

```
6c <main script 5b>+=
# p-uppgift with optional survey
report_components "DD1317 HT${YEARS}" \
                  LAB3 \
                  canvaslms.grades.conjunctavgsurvey
```

This code is used in chunk 4b.

2.1.3 DD1315 prgi2[0-3]

For the old version of the course, we simply have MAT1 instead of KAL1. And there was no mandatory survey. But we run it for a fixed number of years.

7a `<main script 5b>+≡`

```
report_components "DD1315 HT2[0-3]" \
                  "LAB1"
report_components "DD1315 HT2[0-3]" \
                  "MAT1"
report_components "DD1315 HT2[0-3]" \
                  "LAB3"
```

This code is used in chunk 4b.

We don't need to run LAB2 for it, because they have to reregister for the newer course to do LAB2.

2.1.4 DA2215 vetcyb

For vetcyb (DA2215) we have one component: INL1. It's just a few P/F-assignments and a mandatory survey.

7b `<main script 5b>+≡`

```
# vetcyb
report_components "DA2215 [HV]T${YEARS}" \
                  INL1 \
                  canvaslms.grades.conjunctavgsurvey
```

This code is used in chunk 4b.

However, we also want to report the 'Participation INL1'. But that would require us to rewrite the name of the group to just INL1, so we need to use the `report_alt_components` function. Also, we need to use the `canvaslms.grades.participation` summary module to get the participation grade (since those assignments consist only of complete/incomplete and 0–100 grades).

7c `<main script 5b>+≡`

```
# vetcyb participation
report_alt_components "DA2215 [HV]T${YEARS}" \
                     "Participation INL1" INL1 \
                     canvaslms.grades.participation
```

This code is used in chunk 4b.

2.1.5 DD2520 tilkry

For tilkry (DD2520) we have two components: INL1 and LAB1. The INL1 component is just a few P/F-assignments. The LAB1 component is a set of mandatory and optional assignments. The number of optional assignments (and their grades) determine the final grade. So it has a custom summary module: `canvaslms.grades.tilkryLAB1`.

7d `<main script 5b>+≡`

```
# tilkry
report_components "DD2520 VT${YEARS}" \
                  INL1
report_components "DD2520 VT${YEARS}" \
                  LAB1 \
```

```
canvaslms.grades.tilkryLAB1
```

This code is used in chunk 4b.

Finally, let's do this also for the courses that I have given previous years.

8a `<main script 5b>+=`

```
# tidigare kurser
# DD1310 - prgm2[1-5]
report_components "DD1310 HT2[1-5]" \
                  "LAB1"
report_components "DD1310 HT2[1-5]" \
                  "LAB3" \
canvaslms.grades.conjunctavgsurvey
```

This code is used in chunk 4b.

2.2 Getting component results from Canvas to LADOK

To get the results out of Canvas we'll use the `canvaslms results` command. We must install the `canvaslms` tool. We can do this by running:

```
1 python3 -m pip install canvaslms # to use it with Python, or
2 pipx install canvaslms           # to only use the CLI
3 canvaslms login                  # or read `canvaslms login --help`
```

For details on how to extract the results, read `canvaslms results --help` (also read Footnote 2 on page 5).

Course codes always have the same structure, so they're easy to replace. But sometimes we also want to replace the component name with the desired component name in LADOK.

8b `<helper functions 8b>=`

```
report_alt_components() {
    local course="$1"
    local component="$2"
    local desired_component="$3"
    local summary_module="$4"

    local summary_opt=""
    if [[ -n "$summary_module" ]]; then
        summary_opt="-S $summary_module"
    fi

    # Get the course results from Canvas.
    canvaslms results -c "$course" -A "$component" $summary_opt \
    | <change course column to only course code 9b> \
    | <rename the component column to the desired component 9c>
}
```

This definition is continued in chunks 9a and 10a.

This code is used in chunk 4b.

However, let's also add a version where the component name is the same. This will be used most of the time.

```
9a <helper functions 8b>+=
    report_components() {
        local course="$1"
        local component="$2"
        local summary_module="$3"

        report_alt_components "$course" "$component" "$component" "$summary_module"
    }
```

This code is used in chunk 4b.

The course code is the first column of the output from `canvaslms results`. The course code is the first word, separated from the rest by a space. So we simply drop everything after the first space.

```
9b <change course column to only course code 9b>=
    awk -F '\t' -v OFS='\t' '{ split($1,a," "); $1=a[1]; print }'
```

This code is used in chunk 8b.

We can do something similar for the component column, but we simply replace it with the desired component name.

```
9c <rename the component column to the desired component 9c>=
    awk -F '\t' -v OFS='\t' -v comp="$desired_component" '{ $2=comp; print }'
```

This code is used in chunk 8b.

2.3 Reporting course grade

Now we can set the course grades based on the reported components. We'll have to report one course at a time since the course grade is based on different components in different courses.

We'll use the LADOK data to solve this. This means that when the code above is run, it outputs what `ladok report` should put in LADOK. That means that if anyone there completes the course, we will not see it here. However, that's only good: we can't use those results anyway until they're certified/attested in LADOK.

We simply do this for *all rounds*: We look for students who have no grade on the course, then we look if they have a grade on the component, and if they do, we report that as the course grade. We'll fail for those who have not yet finished the other components of the course or those whose results are not yet attested, but that's acceptable. Then we get an overview of who has leftovers. However, we can actually filter those out by looking at the latest date of any component—which we'll need anyway for the date of the course.

```
9d <main script 5b>+=
    report_course DD1315 LAB3
    report_course DD1317 LAB3
    report_course DD2520 LAB1
```

This code is used in chunk 4b.

We don't need to report the course grade for the other courses since they have only one component. For courses with only one component, LADOK will automatically set the course grade based on the grade of the single component.

This approach makes for a simpler implementation of `report_course`. We simply extract the course data using `ladok course -l` and then filter it using `awk`. The output data from `ladok course -l` has the following columns (tab separated):

```
1 course_code round_code component student grade date
```

The `-l` option gives us the student's LADOK identifier instead of name.

The course grade is given by the component being the same as the course code. If the course grade is empty but the grade of the component we're interested in is not empty, we report the component grade as the course grade. So we can filter out whoever has no course grade (`-` in the grade column). Then we filter out who of those have a grade on the component.

As for the grade, we need the newest grade on any component for a student. This also allows us to filter out students who have not yet finished all components of the course. The dates are in ISO format (YYYY-MM-DD), so sorting them lexicographically works. If there is no result on a component, the date is blank.

Finally, we report those to LADOK.

```
10a <helper functions 8b>+≡
    report_course() {
        local course="$1"
        local component="$2"

        ladok course -l "$course" \
        | awk -F '\t' -v OFS='\t' \
            -v comp="$component" \
            -v course="$course" \
            '{
                <store course and component grades and dates 10b>
            }'
        END {
            <print students with component grade but no course grade 11b>
        }'
```

This code is used in chunk 4b.

We check for the course grade and store if it exists.

```
10b <store course and component grades and dates 10b>≡
    if ($3 == $1) {
        course_grade[$4]=$5
    }
```

This definition is continued in chunks 10c and 11a.

This code is used in chunk 10a.

Then we check for the component grade and store it if it exists.

```
10c <store course and component grades and dates 10b>+≡
    else if ($3 == comp) {
        component_grade[$4]=$5
    }
```

This code is used in chunk 10a.

We also store the latest date for *any* component. Here we also want to unset the grade date if there is a date that is blank—since that means one component is not yet finished. However, we should only do that for components, not the course grade.

If we find a blank date, we set the date to -. This way we can be sure to distinguish between the first and second time we look at dates. We do the same for assignments.

```
11a <store course and component grades and dates 10b>+=
    if ($3 != $1) {
        if ($5 == "-" || $5 == "" || $6 == "")
            component_date[$4] = "-"
        else if (component_date[$4] != "-" && $6 > component_date[$4])
            component_date[$4] = $6
    }
```

This code is used in chunk 10a.

Now we want to print the students who have a component grade but no course. But only if they also have a valid date (not -). And we want to print them in the format required by ladok report:

```
1 course_code course_code student grade date
11b <print students with component grade but no course grade 11b>=
    for (student in component_grade) { \
        if (course_grade[student] == "-" \
            && component_grade[student] != "-" \
            && component_date[student] != "-")
        {
            print course, course, student, component_grade[student], \
                component_date[student]
        }
    }
```

This code is used in chunk 10a.

2.4 The script as a whole

```
1 #!/bin/bash
2 . ${HOME}/.profile
3 YEAR=$(date +%y)
4 LOOKBACK=5
5 YEARS=$(echo -n "("; \
6     seq $((YEAR - $LOOKBACK)) $YEAR \
7     | sed -zE "s/\s//g" \
8     | sed "s/|$//")
9 report_alt_components() {
10     local course="$1"
11     local component="$2"
12     local desired_component="$3"
13     local summary_module="$4"
14
15     local summary_opt=""
16     if [[ -n "$summary_module" ]]; then
```

```

17     summary_opt="-S $summary_module"
18 fi
19
20 # Get the course results from Canvas.
21 canvaslms results -c "$course" -A "$component" $summary_opt \
22 | awk -F '\t' -v OFS='\t' '{ split($1,a," "); $1=a[1]; print }' \
23 | awk -F '\t' -v OFS='\t' -v comp="$desired_component" '{ $2=comp; print }'
24 }
25 report_components() {
26     local course="$1"
27     local component="$2"
28     local summary_module="$3"
29
30     report_alt_components "$course" "$component" "$component" "$summary_module"
31 }
32 report_course() {
33     local course="$1"
34     local component="$2"
35
36     ladok course -l "$course" \
37 | awk -F '\t' -v OFS='\t' \
38     -v comp="$component" \
39     -v course="$course" \
40     '{
41         if ($3 == $1) {
42             course_grade[$4]=$5
43         }
44         else if ($3 == comp) {
45             component_grade[$4]=$5
46         }
47         if ($3 != $1) {
48             if ($5 == "-" || $5 == "" || $6 == "")
49                 component_date[$4] = "-"
50             else if (component_date[$4] != "-" && $6 > component_date[$4])
51                 component_date[$4] = $6
52         }
53     }'
54     END {
55         for (student in component_grade) { \
56             if (course_grade[student] == "-" \
57                 && component_grade[student] != "-" \
58                 && component_date[student] != "-")
59             {
60                 print course, course, student, component_grade[student], \
61                     component_date[student]
62             }
63         }
64     }'
65 }
66
67 main() {

```

```

68  # datintro
69  report_components "DD1301 HT${YEARS}" \
70                  LAB1
71  # prgi
72  # labs
73  report_components "DD1317 HT${YEARS}" \
74                  "LAB1"
75  report_components "DD1317 HT${YEARS}" \
76                  "KAL1"
77  # datorprov with optional survey
78  report_components "DD1317.*LAB2.*${YEARS}" \
79                  LAB2 \
80                  canvaslms.grades.maxgradesurvey
81  # p-uppgift with optional survey
82  report_components "DD1317 HT${YEARS}" \
83                  LAB3 \
84                  canvaslms.grades.conjunctavgsurvey
85  report_components "DD1315 HT2[0-3]" \
86                  "LAB1"
87  report_components "DD1315 HT2[0-3]" \
88                  "MAT1"
89  report_components "DD1315 HT2[0-3]" \
90                  "LAB3"
91  # vetcyb
92  report_components "DA2215 [HV]T${YEARS}" \
93                  INL1 \
94                  canvaslms.grades.conjunctavgsurvey
95  # vetcyb participation
96  report_alt_components "DA2215 [HV]T${YEARS}" \
97                       "Participation INL1" INL1 \
98                       canvaslms.grades.participation
99  # tilkry
100 report_components "DD2520 VT${YEARS}" \
101                  INL1
102 report_components "DD2520 VT${YEARS}" \
103                  LAB1 \
104                  canvaslms.grades.tilkryLAB1
105 # tidigare kurser
106 # DD1310 - prgm2[1-5]
107 report_components "DD1310 HT2[1-5]" \
108                  "LAB1"
109 report_components "DD1310 HT2[1-5]" \
110                  "LAB3" \
111                  canvaslms.grades.conjunctavgsurvey
112 report_course DD1315 LAB3
113 report_course DD1317 LAB3
114 report_course DD2520 LAB1
115 }
116
117 # Only run if this is the main script
118 if [[ "${BASH_SOURCE[0]}" == "${0}" ]]; then

```

```
119     main "$@" | ladok report -fv
120 fi
```

Chapter 3

Transfer results from Canvas to LADOK in Python

Here we provide an example program `canvas2ladok.py` which exports results from Canvas to LADOK for the introductory programming course DD1315.

However, a better way to do this is by using the CLI (see Chapter 2 for an even better version):

```
1  #!/bin/bash
2
3  . ${HOME}/.profile
4
5  year=22
6  courses="DD13(1OHT${year}|17HT${year})"
7  components="(LAB[123]|MAT1|KAL1)"
8
9  canvaslms results -c "$courses" -A "$components" \
10 | sed -E "s/ ?[HV]T[0-9]{2}( \(.*\))?//" \
11 | ladok report -fv
```

But now we'll have a look at how we can do this (well, a simpler version) in Python.

3.1 Overview

We want to get results out of Canvas and put them into LADOK. We want to take each assignment group in Canvas and map into a course component in LADOK. *Assumption:* we assume that all assignments in the Canvas course instance are grouped; and each group must map exactly to the names of the LADOK components.

The course components in LADOK (and assignment groups in Canvas) for the DD1315 course are

- LAB1,
- LAB2,
- LAB3,
- MAT1¹.

¹URL: <https://www.kth.se/student/kurser/kurs/DD1315>

The LAB3 component corresponds to a project. In Canvas, it has P/F assignments (e.g., presentation) and one A–F assignment (the project itself). The component grade is based on the project itself, but the other assignments each must have a P too.

For now we will ignore setting the grade on the full course.

When running the program we must have the following environment variables set:

- LADOK_LOGIN and LADOK_PASSWD which hold the credentials for LADOK (or KTH CAS).
- CANVAS_SERVER and CANVAS_TOKEN to point to the Canvas server to use and a token to authenticate.

We provide a Docker image for running this program.

3.1.1 Building files

We provide the following files:

- `<canvas2ladok.mk 16>`.
- `<Dockerfile 17a>`,
- `<canvas2ladok.py (never defined)>`,

We provide an include file for GNU make to build all the targets.

```
16 <canvas2ladok.mk 16>≡
.PHONY: all
all: canvas2ladok.py canvas2ladok

.PHONY: canvas2ladok
canvas2ladok: canvas2ladok.py Dockerfile
    docker build -t canvas2ladok .

Dockerfile: canvas2ladok.nw
    ${NOTANGLE}

.PHONY: clean
clean:
    ${RM} canvas2ladok.pdf canvas2ladok.py
    ${RM} Dockerfile canvas2ladok.mk

.PHONY: distclean
distclean:
    -docker image rm canvas2ladok
```

Root chunk (not used in this document).

The Docker image will just contain the `canvas2ladok.py` file and run it by default.

17a `<Dockerfile 17a>≡`

```
FROM dbosk/ladok3

RUN pip install --no-cache-dir canvasapi
COPY canvas2ladok.py ./

CMD ["python", "./canvas2ladok.py"]
Root chunk (not used in this document).
```

3.2 `canvas2ladok.py`: configuration and dependencies

We use the standard structure for the script. We start with the imports and set up our `ladok` and `canvas` objects, these are used to access the two systems.

17b `<canvas2ladok.py 17b>≡`

```
import cachetools
from canvasapi import Canvas
import collections
import datetime
import ladok3
import os
import re

LOGIN = os.environ["LADOK_USER"]
PASSWD = os.environ["LADOK_PASS"]

ladok = ladok3.LadokSession("KTH",
                           vars={"username": LOGIN, "password": PASSWD},
                           test_environment=False) # for experiments

API_URL = os.environ["CANVAS_SERVER"]
API_KEY = os.environ["CANVAS_TOKEN"]

canvas = Canvas(API_URL, API_KEY)

course_code_ladok = "DD1315"
# We match all course round HT20 and onwards
course_code_canvas = "DD1315[HV]T[2-9][0-9]"
components = [
    "LAB1",
    "LAB2",
    "LAB3",
    "MAT1"
]

<classes 19b>
<functions 18a>

def main():
```


<main body 18d>

```
if __name__ == "__main__":
    main()
```

Root chunk (not used in this document).

3.3 Getting the results out of Canvas

We must first select the course. We do this by matching against a regular expression.

18a *<functions 18a>*≡

```
@cachetools.cached(cache={})
def get_courses(code):
    pattern = re.compile(code)

    for course in canvas.get_courses():
        if pattern.match(course.course_code):
            yield course

    return None
```

This definition is continued in chunks 18–21.

This code is used in chunk 17b.

We must process each assignment group (which corresponds to a LADOK component). So we get all relevant objects from Canvas.

18b *<functions 18a>*+≡

```
def get_components(course):
    for component in course.get_assignment_groups():
        if component.name in components:
            yield component
```

This code is used in chunk 17b.

For each component, we must check which students passed all assignments; we must report the student's LADOK identifier, what grade they should have and the time of submission of the assignment.

18c *<functions 18a>*+≡

```
def students_results(course, component):
    <produce results for a component 21b>
```

This code is used in chunk 17b.

We cover the details in Section 3.6, once we've covered what LADOK needs in Section 3.5.

3.4 The main body

Then we can report those results to LADOK. In summary, we do the following:

18d *<main body 18d>*≡

```
for course in get_courses(course_code_canvas):
    for component in get_components(course):
        print(f"{course.course_code} {component.name}")
        component_results = students_results(course, component)
```

```
report_results(course_code_ladok, component.name, component_results)
```

This code is used in chunk 17b.

3.5 Putting the results into LADOK

We get a list of results for a component. We simply try to report them to LADOK.

```
19a <functions 18a>+≡
def report_results(course_code, component_name, results):
    for result in results:
        try:
            student = ladok.get_student(result.person_nr)
            course = student.courses(code=course_code)[0]
            component = course.results(component=component_name)[0]
            if not component.attested:
                component.set_grade(result.grade, result.date)
                component.finalize()
            elif component.grade != result.grade:
                print(f"{student}: attested {component.component} "
                    f"result {component.grade} is different from {result.grade}.")
        except Exception as err:
            try:
                print(f"{student}: {err}")
            except ValueError as verr:
                print(f"{verr}: {result.person_nr}: {err}")
```

This code is used in chunk 17b.

3.6 Producing the list of results

We need the result to have the following data:

```
19b <classes 19b>≡
Result = collections.namedtuple(
    "Result", ["person_nr", "date", "grade", "grade_scale"])
```

This definition is continued in chunk 19c.

This code is used in chunk 17b.

Now, given a component, we should produce such Result tuples.

3.6.1 Produce gradebook

To do this, we must first produce a gradebook that we can filter. The gradebook will use the simpler Grade tuple. It will use the student's LADOK ID as the key.

```
19c <classes 19b>+≡
Grade = collections.namedtuple("Grade", ["grade", "date"])
```

This code is used in chunk 17b.

To create the gradebook, we will first fetch all the users and then fetch all the submissions. Then we will map them together. This way we only need two requests to Canvas, instead of one per user.

20a `<functions 18a>+≡`

```
def make_gradebook(course, component):
    gradebook = {}

    users_by_id = {}
    for user in course.get_users(enrollment_type="student"):
        users_by_id[user.id] = user
        gradebook[user.integration_id] = {}

    for assignment in assignments_in_component(course, component):
        for submission in assignment.get_submissions():
            try:
                user = users_by_id[submission.user_id].integration_id
            except KeyError:
                # This only happens for the Test Student
                continue

            if not submission.graded_at:
                gradebook[user][assignment.name] = None
                continue

            date = submission.submitted_at or submission.graded_at
            date = datetime.date.fromisoformat(date.split("T")[0]) or None
            graded_date = datetime.date.fromisoformat(
                submission.graded_at.split("T")[0])
            if date > graded_date:
                date = graded_date

            gradebook[user][assignment.name] = \
                Grade(grade=submission.grade, date=date)

    return gradebook
```

This code is used in chunk 17b.

Note that for some users, we won't get any submission. And for some other users, we get a submission with no grade and no date.

We the component object doesn't give the assignments it include. We must check each assignment if it belongs to the component or not.

20b `<functions 18a>+≡`

```
def assignments_in_component(course, component):
    return filter(
        lambda assignment: assignment.assignment_group_id == component.id,
        course.get_assignments())
```

This code is used in chunk 17b.

3.6.2 Assignment grades to component grade

Next, we must filter the gradebook so that only the students who passed all assignments are reported to LADOK with a pass. A student must pass all assignments, the latest date sets the date to use in LADOK. *Assumption:* If some assignments are P/F and some are A-F, then the A-F one should be the grade. There will not be more than one A-F assignment per component.

21a `<functions 18a>+=`

```
def summarize(grades):
    max_grade = "P"
    grade_scale = "PF"
    max_date = datetime.date(year=1970, month=1, day=1)
    for _, grade in grades.items():
        if grade is None or grade.grade is None or grade.grade[0] == "F":
            return None

        if grade.date > max_date:
            max_date = grade.date

        if grade.grade in "ABCDE":
            max_grade = grade.grade
            grade_scale = "AF"

    return (Grade(grade=max_grade, date=max_date), grade_scale)
```

This code is used in chunk 17b.

3.6.3 Convert to LADOK result form

Lastly, we must put these things together and convert the result to the Result format that we need.

21b `<produce results for a component 21b>=`

```
to_report = []
gradebook = make_gradebook(course, component)

for ladok_id, grades in gradebook.items():
    try:
        grade, grade_scale = summarize(grades)
    except TypeError as err:
        # Only happens for students who are not done
        continue

    to_report.append(Result(
        person_nr=ladok.get_student(ladok_id).personnummer,
        grade=grade.grade,
        grade_scale=grade_scale,
        date=grade.date))

return to_report
```

This code is used in chunk 18c.

3.7 The script as a whole

```

1  import cachetools
2  from canvasapi import Canvas
3  import collections
4  import datetime
5  import ladok3
6  import os
7  import re
8
9  LOGIN = os.environ["LADOK_USER"]
10 PASSWD = os.environ["LADOK_PASS"]
11
12 ladok = ladok3.LadokSession(
13     "KTH", vars={"username": LOGIN, "password": PASSWD}, test_environment=False
14 ) # for experiments
15
16 API_URL = os.environ["CANVAS_SERVER"]
17 API_KEY = os.environ["CANVAS_TOKEN"]
18
19 canvas = Canvas(API_URL, API_KEY)
20
21 course_code_ladok = "DD1315"
22 # We match all course round HT20 and onwards
23 course_code_canvas = "DD1315[HV]T[2-9][0-9]"
24 components = ["LAB1", "LAB2", "LAB3", "MAT1"]
25
26 Result = collections.namedtuple("Result", ["person_nr", "date", "grade", "grade_scale"])
27 Grade = collections.namedtuple("Grade", ["grade", "date"])
28
29
30 @cachetools.cached(cache={})
31 def get_courses(code):
32     pattern = re.compile(code)
33
34     for course in canvas.get_courses():
35         if pattern.match(course.course_code):
36             yield course
37
38     return None
39
40
41 def get_components(course):
42     for component in course.get_assignment_groups():
43         if component.name in components:
44             yield component
45
46
47 def students_results(course, component):
48     to_report = []
49     gradebook = make_gradebook(course, component)

```

```

50
51     for ladok_id, grades in gradebook.items():
52         try:
53             grade, grade_scale = summarize(grades)
54         except TypeError as err:
55             # Only happens for students who are not done
56             continue
57
58         to_report.append(
59             Result(
60                 person_nr=ladok.get_student(ladok_id).personnummer,
61                 grade=grade.grade,
62                 grade_scale=grade_scale,
63                 date=grade.date,
64             )
65         )
66
67     return to_report
68
69
70 def report_results(course_code, component_name, results):
71     for result in results:
72         try:
73             student = ladok.get_student(result.person_nr)
74             course = student.courses(code=course_code)[0]
75             component = course.results(component=component_name)[0]
76             if not component.attested:
77                 component.set_grade(result.grade, result.date)
78                 component.finalize()
79             elif component.grade != result.grade:
80                 print(
81                     f"{student}: attested {component.component} "
82                     f"result {component.grade} is different from {result.grade}."
83                 )
84         except Exception as err:
85             try:
86                 print(f"{student}: {err}")
87             except ValueError as verr:
88                 print(f"{verr}: {result.person_nr}: {err}")
89
90
91 def make_gradebook(course, component):
92     gradebook = {}
93
94     users_by_id = {}
95     for user in course.get_users(enrollment_type=["student"]):
96         users_by_id[user.id] = user
97         gradebook[user.integration_id] = {}
98
99     for assignment in assignments_in_component(course, component):
100         for submission in assignment.get_submissions():

```

```

101         try:
102             user = users_by_id[submission.user_id].integration_id
103         except KeyError:
104             # This only happens for the Test Student
105             continue
106
107         if not submission.graded_at:
108             gradebook[user][assignment.name] = None
109             continue
110
111         date = submission.submitted_at or submission.graded_at
112         date = datetime.date.fromisoformat(date.split("T")[0]) or None
113         graded_date = datetime.date.fromisoformat(
114             submission.graded_at.split("T")[0]
115         )
116         if date > graded_date:
117             date = graded_date
118
119         gradebook[user][assignment.name] = Grade(grade=submission.grade, date=date)
120
121     return gradebook
122
123
124 def assignments_in_component(course, component):
125     return filter(
126         lambda assignment: assignment.assignment_group_id == component.id,
127         course.get_assignments(),
128     )
129
130
131 def summarize(grades):
132     max_grade = "P"
133     grade_scale = "PF"
134     max_date = datetime.date(year=1970, month=1, day=1)
135     for _, grade in grades.items():
136         if grade is None or grade.grade is None or grade.grade[0] == "F":
137             return None
138
139         if grade.date > max_date:
140             max_date = grade.date
141
142         if grade.grade in "ABCDE":
143             max_grade = grade.grade
144             grade_scale = "AF"
145
146     return (Grade(grade=max_grade, date=max_date), grade_scale)
147
148
149 def main():
150     for course in get_courses(course_code_canvas):
151         for component in get_components(course):

```

```
152         print(f"{course.course_code} {component.name}")
153         component_results = students_results(course, component)
154         report_results(course_code_ladok, component.name, component_results)
155
156
157 if __name__ == "__main__":
158     main()
```


Part II

The command-line interface

Chapter 4

The base interface

This is the documentation of the command-line interface module (`cli`) of the `ladok3` package, `<cli.py (never defined)>`.

The command-line interface is divided into subcommands, similar to Git. Currently, we provide the following commands:

data The command outputs all results for all rounds of a course in CSV format.

4.1 Overview of the source code and dependencies

We use `argparse` with `argcomplete` to handle the command-line interface. We use `appdirs` to handle configuration directories on various systems, we set up a global `dirs` that we can use.

```
27 <cli.py 27>≡
    #!/bin/env python3
    """A command-line interface for LADOK 3"""

    import appdirs
    import argcomplete, argparse
    import base64
    from cryptography.fernet import Fernet
    from cryptography.hazmat.primitives import hashes
    from cryptography.hazmat.primitives.kdf.pbkdf2 import PBKDF2HMAC
    import getpass
    import io
    import json
    import keyring
    import ladok3
    import os
    import pickle
    import re
    import sys
    import traceback
    import weblogin
    import weblogin.ladok
    import weblogin.seamlessaccess as sa
```

<modules 47b>

```
dirs = appdirs.AppDirs("ladok", "dbosk@kth.se")
```

<functions 28b>

<command-line interface 28a>

Root chunk (not used in this document).

4.2 A command-line interface

The idea is that we have the basic command that can take some options and ultimately some subcommand. The subcommands do the heavy lifting. We use a standard Pythonic if-main construction.

28a *<command-line interface 28a>*≡

```
def main():
    """Run the command-line interface for the ladok command"""
    <process command-line options 29a>

if __name__ == "__main__":
    try:
        main()
        sys.exit(0)
    except Exception as e:
        err(-1, e)
```

This code is used in chunk 27.

We want uniform error handling. We will use the function `err` for errors and `warn` for warnings, both inspired by `err(3)` and `warn(3)` in the BSD world.

28b *<functions 28b>*≡

```
def err(rc, msg):
    """Print error message to stderr and exit with given return code.

    Args:
        rc (int): Return code to exit with.
        msg (str): Error message to display.
    """
    print(f"{sys.argv[0]}: error: {msg}", file=sys.stderr)
    sys.exit(rc)

def warn(msg):
    """Print warning message to stderr.

    Args:
        msg (str): Warning message to display.
    """
    print(f"{sys.argv[0]}: {msg}", file=sys.stderr)
```

This definition is continued in chunks 30–32, 41b, 43a, 44a, and 47a.

This code is used in chunk 27.

4.2.1 Process command-line options

The main part done here is to set up a `LadokSession` object `ls`. We can do this in two ways: (1) create a new object using the user's credentials to log in; or (2) restore the `ls` object from a previous run.

We'll use `argparse` to parse the command-line options.

```
29a <process command-line options 29a>≡
    argp = argparse.ArgumentParser(
        description="This is a CLI-ification of LADOK3's web GUI.",
        epilog="Copyright (c) 2020 Alexander Baltatzis, Gerald Q. Maguire Jr.; "
              "2021--2026 Daniel Bosk. "
              "Licensed under MIT. "
              "Web: https://github.com/dbosk/ladok3"
    )
    <add global configuration options 39b>
    subp = argp.add_subparsers(
        title="commands",
        dest="command",
        required=True
    )
    <add subparsers to subp 40>
    argcomplete.autocomplete(argp)
    args = argp.parse_args()
    <execute early commands that do not need ls 29b>
    <create or restore the LadokSession ls 31a>
    <execute subcommand 30a>
    <save LadokSession ls 31b>
```

This code is used in chunk 28a.

For each subcommand, we will add a subparser (`subp.add_parser`) that will set the `func` attribute. Then we can execute the correct function and let that function check the remaining arguments. We must also pass on a LADOK session object `ls`.

We note, however, that some subcommands (like `cache` or `login`) don't need the `ls`. The command `login` in particular must run before the `ls` object can be constructed, because its job is to gather credentials when none exist yet. The `cache clear` subcommand should also work even when `cache restore` is what is currently broken, so we dispatch both commands before touching the cached session. For the remaining commands, we can create the `ls` object with `None` for credentials; the failure will not happen until we make the first request.

```
29b <execute early commands that do not need ls 29b>≡
    if args.command == "login":
        args.func(None, args)
        return

    if args.command == "cache" and args.subcommand == "clear":
        clear_cache(None, args)
        return
```

This code is used in chunk 29a.

30a `<execute subcommand 30a>≡`
`if "func" in args:`
 `args.func(ls, args)`

This code is used in chunk 29a.

4.3 Create the `LadokSession` `ls`

We have several options for creating the `LadokSession` object `ls` that must be passed to the subcommand:

- (1) The first one is to read the user's credentials (from the keyring, environment or configuration) and create the `ls` object by instantiating the `LadokSession` class.
- (2) Read a pickled `LadokSession` object from file.

The second option allows us to save time by not having to reestablish an authenticated session to LADOK. The authentication step takes much more time than individual LADOK requests.

We want to handle authentication for all universities. This means that we must keep track of two things, the institution and the user's credentials¹ at that institution. When we create the LADOK session object, we must supply those credentials to the `weblogin.ladok.SSOlogin` login handler. ¹Which is usually a username and a password.

This leads to the following approach. `LADOK_INST` is simply a string identifying the institution at SeamlessAccess.org (see documentation of `weblogin`) and `LADOK_VARS` is a dictionary where the keys map to variable names and the values should be substituted in the login forms (see documentation of `weblogin`). We use `LADOK_VARS` as credentials, since it contains the credentials.

The session lifecycle—load credentials, try to restore a cached session, fall back to a fresh `LadokSession`—is shared with the module-level `ladok3.session` attribute. We cannot have the CLI use `ladok3.session` directly, because the CLI needs to pass a custom `config_file` path and because the `login` command must work even without credentials. Instead, we factor the shared lifecycle into `get_session`, which both the CLI and `ladok3.session` call.

30b `<functions 28b>+≡`
`def get_session(config_file=None):`
 `"""Load or create a LadokSession from available credentials.`

 `Tries to restore a cached session first; if unavailable, creates a fresh`
 `one from credentials. Returns a tuple of (session, credentials).`

 `Args:`
 `config_file (str or None): Path to configuration file, or None for`
 `default.`

 `Returns:`
 `tuple: (LadokSession, credentials) where credentials is a dict.`

 `Raises:`
 `ValueError: If a cached session exists but cannot be decrypted.`
 `"""`

```

institution, credentials = load_credentials(config_file)
session = restore_ladok_session(credentials)
if not session:
    session = ladok3.LadokSession(institution, vars=credentials)
return session, credentials

```

This code is used in chunk 27.

The CLI calls `get_session` with the user-supplied config file path. We catch `ValueError` separately because it indicates a corrupted or unreadable cache—the user should know about that rather than silently creating a new session.

```

31a <create or restore the LadokSession ls 31a>≡
    try:
        ls, LADOK_VARS = get_session(args.config_file)
    except ValueError as error:
        err(-1, f"Couldn't restore LADOK session: {error}")

```

This code is used in chunk 29a.

```

31b <save LadokSession ls 31b>≡
    store_ladok_session(ls, LADOK_VARS)

```

This code is used in chunk 29a.

4.3.1 Saving and restoring the `LadokSession` object

Now we need to implement the `store_ladok_session` and `restore_ladok_session` functions. We will use `pickle` for storing and restoring the object. But we also want to encrypt the stored object using authenticated encryption. That way, we know that we can trust the pickle (which is otherwise a problem).

```

31c <functions 28b>+≡
def store_ladok_session(ls, credentials):
    """Store a LadokSession object to disk with encryption.

    Saves the session object as an encrypted pickle file in the user's cache directory.
    The credentials are used to derive an encryption key for security.

    Args:
        ls (LadokSession): The session object to store.
        credentials (tuple): Tuple of (institution, vars) used for key derivation.

    Raises:
        ValueError: If credentials are missing or invalid.
    """
    if not os.path.isdir(dirs.user_cache_dir):
        os.makedirs(dirs.user_cache_dir)

    file_path = dirs.user_cache_dir + "/LadokSession"

    pickled_ls = pickle.dumps(ls)
    <encrypt pickled ls 34a>

    with open(file_path, "wb") as file:

```

```

        file.write(encrypted_ls)

def restore_ladok_session(credentials):
    """Restore a LadokSession object from disk.

    Attempts to load and decrypt a previously stored session object. Returns None
    if no cached session exists or decryption fails.

    Args:
        credentials (tuple): Tuple of (institution, vars) used for key derivation.

    Returns:
        LadokSession or None: The restored session object, or None if unavailable.
    """
    file_path = dirs.user_cache_dir + "/LadokSession"

    if os.path.isfile(file_path):
        with open(file_path, "rb") as file:
            encrypted_ls = file.read()
            <decrypt encrypted ls 34b>
            if pickled_ls:
                <restore pickled ls 34c>

    return None

```

This code is used in chunk 27.

We don't want to only encrypt the object, we also want to provide integrity for the object. This is to avoid any vulnerabilities with pickle. We use the cryptography module to handle the encryption. In particular, we use the `cryptography.fernet` protocol which encrypts using AES and signs using HMAC.

One complication remains: a cached session may contain handlers defined in optional packages such as `kthutils`. When the current environment does not have that package installed, a plain `pickle.loads()` aborts before we can even inspect the session. We still want the rest of the cached session—most importantly the cookies—so we retry with a tolerant unpickler that substitutes unknown non-core classes with placeholder handlers. After unpickling we drop those placeholders and warn, so the restored session can be repickled without depending on unavailable modules.

```

32 <functions 28b>+≡
class DroppedAutologinHandler(weblogin.AutologinHandler):
    """Placeholder for cached handlers from unavailable optional modules."""

    missing_module = None
    missing_name = None

    def login(self, session, response, args=None, kwargs=None):
        return response

    def need_login(self, response):
        return False

```

```

_DROPPED_HANDLER_CLASSES = {}

def dropped_handler_class(module, name):
    """Return a placeholder class for an unavailable cached handler."""
    key = (module, name)
    if key not in _DROPPED_HANDLER_CLASSES:
        safe_name = re.sub(r"\W+", "_", f"{module}_{name}")
        _DROPPED_HANDLER_CLASSES[key] = type(
            f"Dropped_{safe_name}",
            (DroppedAutologinHandler,),
            {"missing_module": module, "missing_name": name})
    return _DROPPED_HANDLER_CLASSES[key]

class TolerantCacheUnpickler(pickle.Unpickler):
    """Unpickler that tolerates unavailable optional handler classes."""

    CORE_MODULE_PREFIXES = ("ladok3", "weblogin")

    def find_class(self, module, name):
        try:
            return super().find_class(module, name)
        except (AttributeError, ImportError, ModuleNotFoundError):
            if any(module == prefix or module.startswith(f"{prefix}.")
                    for prefix in self.CORE_MODULE_PREFIXES):
                raise
            return dropped_handler_class(module, name)

def tolerant_pickle_loads(data):
    """Load pickle data while replacing unavailable optional handlers."""
    return TolerantCacheUnpickler(io.BytesIO(data)).load()

def drop_unimportable_handlers(ls):
    """Drop placeholder handlers added during tolerant cache restore."""
    try:
        handlers = ls.session._AutologinSession_handlers
    except AttributeError:
        return []

    kept_handlers = []
    dropped_handlers = []
    for handler in handlers:
        if isinstance(handler, DroppedAutologinHandler):
            missing = f"{handler.missing_module}.{handler.missing_name}"
            warn(f"dropped cached handler {missing}: module unavailable")
            dropped_handlers.append(missing)

```



```

    else:
        kept_handlers.append(handler)
    handlers[:] = kept_handlers
    return dropped_handlers

```

This code is used in chunk 27.

We will use the user's LADOK password to generate a cryptographic key. Then we do the encryption/decryption.

```

34a <encrypt pickled ls 34a>≡
    <set up kdf and derive key from credentials 38>

    fernet_protocol = Fernet(key)
    encrypted_ls = fernet_protocol.encrypt(pickled_ls)

```

This code is used in chunk 31c.

```

34b <decrypt encrypted ls 34b>≡
    <set up kdf and derive key from credentials 38>

    fernet_protocol = Fernet(key)
    try:
        pickled_ls = fernet_protocol.decrypt(encrypted_ls)
    except Exception as err:
        warn(f"cache was corrupted, cannot decrypt: {err}")
        pickled_ls = None

```

This code is used in chunk 31c.

```

34c <restore pickled ls 34c>≡
    try:
        return pickle.loads(pickled_ls)
    except (AttributeError,
            ImportError,
            ModuleNotFoundError,
            pickle.UnpicklingError) as err:
        warn("cache refers to unavailable optional classes, retrying without "
            f"those handlers: {err}")
        ls = tolerant_pickle_loads(pickled_ls)
        drop_unimportable_handlers(ls)
        return ls

```

This code is used in chunk 31c.

Let's verify that the tolerant restore path preserves the cache when an optional handler class is unavailable, while still leaving core missing classes as hard failures. We also verify that the commands dispatched before session creation really bypass `get_session`.

```

34d <test cli.py 34d>≡
    import io
    import pickle
    import sys
    import types

```

```

import pytest

import ladok3.cli

class RestorableHandler:
    def __init__(self, value):
        self.value = value

class FakeSession:
    def __init__(self, handlers=None):
        self._AutologinSession__handlers = list(handlers or [])

class FakeLadokSession:
    def __init__(self, handlers=None):
        self.session = FakeSession(handlers)

```

⟨test functions 35⟩

Root chunk (not used in this document).

```

35  ⟨test functions 35⟩≡
def test_tolerant_pickle_loads_replaces_missing_optional_handlers(monkeypatch):
    handler = RestorableHandler("cached")
    handler.__class__.__module__ = "optional.handlers"
    original_optional = sys.modules.get("optional")
    original_handlers = sys.modules.get("optional.handlers")
    optional_module = types.ModuleType("optional")
    handlers_module = types.ModuleType("optional.handlers")
    handlers_module.RestorableHandler = RestorableHandler
    optional_module.handlers = handlers_module
    sys.modules["optional"] = optional_module
    sys.modules["optional.handlers"] = handlers_module
    try:
        payload = pickle.dumps(FakeLadokSession([handler]))
    finally:
        if original_optional is None:
            del sys.modules["optional"]
        else:
            sys.modules["optional"] = original_optional
        if original_handlers is None:
            del sys.modules["optional.handlers"]
        else:
            sys.modules["optional.handlers"] = original_handlers

    restored = ladok3.cli.tolerant_pickle_loads(payload)

```

```

handler = restored.session._AutologinSession__handlers[0]
assert isinstance(handler, ladok3.cli.DroppedAutologinHandler)
assert handler.missing_module == "optional.handlers"
assert handler.missing_name == "RestorableHandler"

def test_tolerant_pickle_loads_keeps_core_failures():
    handler = RestorableHandler("cached")
    handler.__class__.__module__ = "ladok3.missing"
    original_module = sys.modules.get("ladok3.missing")
    missing_module = types.ModuleType("ladok3.missing")
    missing_module.RestorableHandler = RestorableHandler
    sys.modules["ladok3.missing"] = missing_module
    try:
        payload = pickle.dumps(FakeLadokSession([handler]))
    finally:
        if original_module is None:
            del sys.modules["ladok3.missing"]
        else:
            sys.modules["ladok3.missing"] = original_module

    with pytest.raises(ModuleNotFoundError):
        ladok3.cli.tolerant_pickle_loads(payload)

def test_drop_unimportable_handlers_warns_and_prunes(monkeypatch):
    dropped = ladok3.cli.dropped_handler_class(
        "optional.handlers", "RestorableHandler")()
    kept = RestorableHandler("kept")
    ls = FakeLadokSession([kept, dropped])
    warnings = []

    monkeypatch.setattr(ladok3.cli, "warn", warnings.append)

    dropped_handlers = ladok3.cli.drop_unimportable_handlers(ls)

    assert dropped_handlers == ["optional.handlers.RestorableHandler"]
    assert ls.session._AutologinSession__handlers == [kept]
    assert warnings == [
        "dropped cached handler optional.handlers.RestorableHandler: "
        "module unavailable"
    ]

def test_restore_ladok_session_retries_with_tolerant_unpickler(monkeypatch,
                                                                tmp_path):
    cache_dir = tmp_path / "cache"
    cache_dir.mkdir()
    cache_file = cache_dir / "LadokSession"
    cache_file.write_bytes(b"encrypted")

```

```

fake_dirs = types.SimpleNamespace(user_cache_dir=str(cache_dir))
warnings = []

monkeypatch.setattr(ladok3.cli, "dirs", fake_dirs)
monkeypatch.setattr(ladok3.cli, "warn", warnings.append)
monkeypatch.setattr(ladok3.cli, "PBKDF2HMAC",
                    lambda **kwargs: types.SimpleNamespace(
                        derive=lambda password: b"0" * 32))
monkeypatch.setattr(ladok3.cli.base64,
                    "urlsafe_b64encode",
                    lambda data: b"A" * 44)
monkeypatch.setattr(ladok3.cli,
                    "Fernet",
                    lambda key: types.SimpleNamespace(
                        decrypt=lambda data: b"pickle-data"))

calls = []

def fake_pickle_loads(data):
    calls.append(data)
    raise AttributeError("Can't get attribute 'MissingHandler'")

restored_ls = FakeLadokSession([
    ladok3.cli.dropped_handler_class(
        "optional.handlers", "MissingHandler")()])

monkeypatch.setattr(ladok3.cli.pickle, "loads", fake_pickle_loads)
monkeypatch.setattr(ladok3.cli,
                    "tolerant_pickle_loads",
                    lambda data: restored_ls)

ls = ladok3.cli.restore_ladok_session({
    "username": "alice",
    "password": "secret",
})

assert ls is restored_ls
assert calls == [b"pickle-data"]
assert warnings == [
    "cache refers to unavailable optional classes, retrying without "
    "those handlers: Can't get attribute 'MissingHandler'",
    "dropped cached handler optional.handlers.MissingHandler: "
    "module unavailable"
]

def test_main_runs_login_before_restoring_session(monkeypatch):
    called = []

    monkeypatch.setattr(ladok3.cli.argcomplete, "autocomplete",

```

```

        lambda parser: None)
monkeypatch.setattr(ladok3.cli.sys, "argv", ["ladok", "login"])
monkeypatch.setattr(ladok3.cli,
                    "update_credentials_in_keyring",
                    lambda ls, args: called.append((ls, args.command)))

def fail_get_session(config_file=None):
    raise AssertionError("get_session should not run")

monkeypatch.setattr(ladok3.cli, "get_session", fail_get_session)

ladok3.cli.main()

assert called == [(None, "login")]

def test_main_clears_cache_before_restoring_session(monkeypatch):
    called = []

    monkeypatch.setattr(ladok3.cli.argcomplete, "autocomplete",
                        lambda parser: None)
    monkeypatch.setattr(ladok3.cli.sys,
                        "argv",
                        ["ladok", "cache", "clear"])
    monkeypatch.setattr(ladok3.cli,
                        "clear_cache",
                        lambda ls, args: called.append((ls, args.command,
                                                         args.subcommand)))

    def fail_get_session(config_file=None):
        raise AssertionError("get_session should not run")

    monkeypatch.setattr(ladok3.cli, "get_session", fail_get_session)
    monkeypatch.setattr(ladok3.cli, "load_credentials",
                        lambda filename=None: (None, None))

    ladok3.cli.main()

    assert called == [(None, "cache", "clear")]

```

This code is used in chunk 34d.

To actually do the key derivation, we use the PBKDF2 based on HMAC. We use the supplied credentials for salt and password.

```

38 <set up kdf and derive key from credentials 38>≡
    if not credentials or len(credentials) < 2:
        raise ValueError(f"Missing credentials, see `ladok login -h`.")

    if isinstance(credentials, dict):
        try:
            salt = credentials["username"]

```

```

    passwd = credentials["password"]
except KeyError:
    credentials = list(credentials.values())
    <get salt and passwd from credentials list 39a>
else:
    <get salt and passwd from credentials list 39a>

kdf = PBKDF2HMAC(
    algorithm=hashes.SHA256(),
    length=32,
    salt=salt.encode("utf-8"),
    iterations=100000
)
key = base64.urlsafe_b64encode(kdf.derive(passwd.encode("utf-8")))

```

This code is used in chunk 34.

39a <get salt and passwd from credentials list 39a>≡

```

salt = credentials[0]
passwd = credentials[1]

```

This code is used in chunk 38.

4.4 Configuration

We provide a global configuration file. We want to allow the user to specify different locations for the configuration.

Location of configuration files We want the user to be able to specify the location of the configuration file.

39b <add global configuration options 39b>≡

```

argp.add_argument("-f", "--config-file",
    default=f"{dirs.user_config_dir}/config.json",
    help="Path to configuration file "
        f"(default: {dirs.user_config_dir}/config.json) "
        "or set LADOK_USER and LADOK_PASS environment variables.")

```

This code is used in chunk 29a.

Since we provide the default value here, we can always rely on it to be available, so we can use `args.config_file` directly when we want to access the configuration file.

4.5 Managing credentials: the login command

We want a subcommand to handle the user's credentials for accessing LADOK. In particular, we need the user to be able to change the credentials in the system keyring, e.g., in case the user wrote the wrong password. The rest we don't need to do much about, merely point out the possibilities to the user.

39c <login description 39c>≡

```

Manages the user's LADOK login credentials. There are three ways to supply the
login credentials, in order of priority:

```

1) Through the environment: Just set the environment variables

- a) LADOK_INST, the name of the institution, e.g. KTH Royal Institute of Technology;
- b) LADOK_VARS, a colon-separated list of environment variables, similarly to what's done in ``ladok login`` --- most don't need this, but can rather set LADOK_USER (the username, e.g. `dbosk@ug.kth.se`) and LADOK_PASS (the password) instead.

2) Through the configuration file: Just write

```
{
  "institution": "the name of the university"
  "username": "the actual username",
  "password": "the actual password"
}
```

to the file `{dirs.user_config_dir}/config.json` (default, or use the `-f` option). (The keys 'username' and 'password' can be renamed to correspond to the necessary values if the university login system uses other names.)

3) Through the system keyring: Just run ``ladok login`` and you'll be asked to enter the credentials and they will be stored in the keyring. Note that for this to work on the WSL platform (and possibly on Windows), you need to install the ``keyrings.alt`` package: ``python3 -m pip install keyrings.alt``.

The keyring is the most secure. However, sometimes one want to try different credentials, so the environment should override the keyring. Also, on WSL the keyring might require you to enter a password in the terminal---this is very inconvenient in scripts. However, when logging in, we first try to store the credentials in the keyring.

If your institution uses Microsoft Authenticator for multi-factor authentication (MFA), ladok will automatically handle the number-matching challenge. A number will be displayed that you need to enter in the Authenticator app on your phone. By default, the number is printed to the terminal. You can set the environment variable `WEBLOGIN_MFA_NOTIFICATION` to a command that will display the number as a notification, e.g. ``export WEBLOGIN_MFA_NOTIFICATION=notify-send``.

This code is used in chunk 40.

```
40 <add subparsers to subp 40>≡
    login_parser = subp.add_parser("login",
        help="Manage login credentials",
        formatter_class=argparse.RawDescriptionHelpFormatter,
        description=f"""
    <login description 39c>
    """)
```

```
login_parser.set_defaults(func=update_credentials_in_keyring)
```

This definition is continued in chunks 46–48.

This code is used in chunk 29a.

4.5.1 Updating the credentials in the keyring

As stated, if the subcommand is run, we should update the credentials in the keyring.

41a

<login prompt 41a>≡

This login process is exactly the same as when you log in using the web browser. You need three things:

- 1) The name of your institution, so that it can be uniquely identified.
- 2) Your username at your institution. This is sometimes a username (such as ``dbosk``) or an email address (such as ``dbosk@kth.se``). However, occasionally, you type in the username in the web browser and it is actually complemented: for instance, at KTH, I type in my username ``dbosk`` and then on the password screen, I can see it has been complemented to ``dbosk@ug.kth.se``. Be observant about that.
- 3) Your password at your institution.

This code is used in chunk 41b.

If we run this subcommand, also want to clear the cache; otherwise, the cache will keep the outdated credentials.

41b

<functions 28b>+≡

```
def update_credentials_in_keyring(ls, args):
    print("""
<login prompt 41a>
    """)
    while True:
        institution = input("Institution: ")
        <check that institution uniquely identifies on SeamlessAccess 42b>

    vars = {
        "username": input("Institution username: "),
        "password": getpass.getpass("Institution password: [input is hidden] ")
    }
    <try to log into LADOK to verify credentials or update vars 42c>

    try:
        keyring.set_password("ladok3", "institution", institution)
        keyring.set_password("ladok3", "vars", ";".join(vars.keys()))
        for key, value in vars.items():
            keyring.set_password("ladok3", key, value)
    except Exception as err:
        <print error message about keyring 42a>
```



```
clear_cache(ls, args)
```

This code is used in chunk 27.

We want to print using the `err` function defined earlier. But this doesn't work due to all exceptions named `err`. However, we can access it using the `globals()["err"]`.

```
42a <print error message about keyring 42a>≡
    globals()["err"](-1, f"You don't seem to have a working keyring. "
                      f"Use one of the other methods, see "
                      f"`ladok login -h`: {err}.")
```

This code is used in chunk 41b.

Now, we want to check that the institution is uniquely identified at SeamlessAccess using the name provided by the user. We do this by looking up the name and asking the user to change if not a unique match.

```
42b <check that institution uniquely identifies on SeamlessAccess 42b>≡
    matches = sa.find_entity_data_by_name(institution)

    if not matches:
        print("No match, try again.")
        continue

    if len(matches) > 1:
        print("More than one match. Which one?")
        for match in matches:
            print(f"- {match['title']}")
        continue

    match = matches[0]

    print(f"Matched uniquely, using {match['title']}\n"
          f"          with domain {match['domain']} and\n"
          f"          unique identifier {match['id']}.")

    institution = match['id']
    break
```

This code is used in chunk 41b.

Once we're done with the institution, we can try to log in with the credentials. We do this by creating a LADOK session object and try if we can successfully make an API call. If there is an authentication error, we'll get a `weblogin.AuthenticationError` exception that can be used by the user to debug and adjust the variable names needed by their institution's login service.

```
42c <try to log into LADOK to verify credentials or update vars 42c>≡
    while True:
        temp_ls = ladok3.LadokSession(institution, vars=vars)

        try:
            temp_ls.user_info_JSON()
        except weblogin.AuthenticationError as err:
            adjust_vars(vars, err.variables)
        else:
```

```
break
```

This code is used in chunk 41b.

```
43a <functions 28b>+≡
def adjust_vars(vars, form_variables):
    print("""
    <user instructions to adapt variable names and values 43b>
    """)
    input("\nPress return to continue.\n")
```

<adjust vars using variables from err 43c>

This code is used in chunk 27.

An authentication error can be due to several things:

- (1) the user entered the username or (more likely) the password incorrectly,
- (2) the user's institution uses different names for their form fields than username and password.

In both cases, we'll ask the user to review the variables and their contents, and adjust if necessary.

```
43b <user instructions to adapt variable names and values 43b>≡
Some part of the authentication went wrong. Either you typed your username or
password incorrectly, or your institution requires some adjustments. We'll
guide you through it.
```

We will show you some variable names and values and give you the opportunity to change the values according to the name of the variable. For instance, we assume that the institution call the variable for the username `username`, but they might call it `användarnamn` instead. You'll have to figure this out.

Remember, the problem might also be that you entered your username as 'dbosk', when it should be 'dbosk@ug.kth.se' --- or something similar. Use your institution's login page to figure this out.

Note: Your password will be visible on screen during this process.

This code is used in chunk 43a.

We note that `weblogin.ladok.SSOlogin` requires the keys to be casefolded. So we do that too, and present the variables casefolded so that the users use casefolded names when they try to set up environment variables.

```
43c <adjust vars using variables from err 43c>≡
for key, value in form_variables.items():
    key = key.casefold()
    new_val = input(f"{key} = '{value}' "
                    f"[enter new value, blank to keep] ")

    if new_val:
        vars[key] = new_val
```

This code is used in chunk 43a.

4.5.2 Loading user credentials

The `load_credentials` function will try to get the user's LADOK credentials. There are three locations:

- (1) the system keyring,
- (2) the environment variables: `LADOK_INST`, `LADOK_USER` and `LADOK_PASS`,
- (3) the configuration file.

They are given the priority they are listed in above. It tries to fetch the credentials in the given order; if it succeeds, it returns those credentials, otherwise it tries the next. If all fail, the function will return `None` for both. (This is due to how we handle the login command.)

```
44a <functions 28b>+=
def load_credentials(filename="config.json"):
    """
    Loads credentials from environment or file named filename.
    Returns the tuple (institution, credential dictionary) that
    can be passed to `LadokSession(institution, credential dictionary)`.
    """

    <fetch institution from environment 44b>
    <fetch username and password from environment 44c>
    <fetch vars from environment 45a>
    <fetch vars from config file 45c>
    <fetch vars from keyring 45d>
    <fetch username and password from keyring 46a>

    return None, None
```

This code is used in chunk 27.

First in priority is to read from the environment. We try to read the institution. If that fails, we assume we're using the old format that only supported KTH.

```
44b <fetch institution from environment 44b>=
try:
    institution = os.environ["LADOK_INST"]
except:
    institution = "KTH Royal Institute of Technology"
```

This code is used in chunk 44a.

```
44c <fetch username and password from environment 44c>=
try:
    vars = {
        "username": os.environ["LADOK_USER"],
        "password": os.environ["LADOK_PASS"]
    }
    if institution and vars["username"] and vars["password"]:
        return institution, vars
except:
    pass
```

This code is used in chunk 44a.

If we couldn't read the old LADOK_USER and LADOK_PASS, we try to read the vars from the environment using LADOK_VARS. Note that we need the institution to be set from LADOK_INST above for this.

```
45a <fetch vars from environment 45a>≡
try:
    vars_keys = os.environ["LADOK_VARS"]

    vars = {}
    for key in vars_keys.split(":"):
        try:
            value = os.environ[key]
            if value:
                vars[key] = value
        except KeyError:
            <print warning about missing variable in LADOK_VARS 45b>

    if institution and vars:
        return institution, vars
except:
    pass
```

This code is used in chunk 44a.

Unlike in the other cases, we don't just ignore the exception of the key not existing. Since the user has explicitly specified the variable, we should warn them that it doesn't exist.

```
45b <print warning about missing variable in LADOK_VARS 45b>≡
warn(f"Variable {key} not set, ignoring.")
```

This code is used in chunk 45a.

If none of the above worked, we try the config file next. We pop the institution from the configuration file (a dictionary), because then the remaining entries will be used as vars.

```
45c <fetch vars from config file 45c>≡
try:
    with open(filename) as conf_file:
        config = json.load(conf_file)

    institution = config.pop("institution",
                             "KTH Royal Institute of Technology")
    return institution, config
except:
    pass
```

This code is used in chunk 44a.

Lastly, if nothing else worked, we try to fetch the institution and vars from the keyring. Note that keyring returns None if the key doesn't exist, it doesn't raise an exception.

```
45d <fetch vars from keyring 45d>≡
try:
    institution = keyring.get_password("ladok3", "institution")
    vars_keys = keyring.get_password("ladok3", "vars")
```

```

vars = {}
for key in vars_keys.split(";"):
    value = keyring.get_password("ladok3", key)
    if value:
        vars[key] = value

if institution and vars:
    return institution, vars
except:
    pass

```

This code is used in chunk 44a.

However, if that fails, we fall back on the previous format, that only supported KTH.

46a *<fetch username and password from keyring 46a>*≡

```

try:
    institution = "KTH Royal Institute of Technology"
    username = keyring.get_password("ladok3", "username")
    password = keyring.get_password("ladok3", "password")
    if username and password:
        return institution, {"username": username, "password": password}
except:
    pass

```

This code is used in chunk 44a.

4.6 Managing the cache: the cache command and subcommands

We need a command to control the cache. For this purpose we provide the cache subcommand. This command will in turn have subcommands.

46b *<add subparsers to subp 40>*+≡

```

cache_parser = subp.add_parser("cache",
    help="Manage cache",
    description="Manages the cache of LADOK data"
)
cache_subp = cache_parser.add_subparsers(
    title="subcommands",
    dest="subcommand",
    required=True
)
<add subcommands to cache command 46c>

```

This code is used in chunk 29a.

4.6.1 Clear the cache

Since the cache stores sensitive data (student data) and the login credentials, we want to be able to clear the cache.

46c *<add subcommands to cache command 46c>*≡

```

cache_clear = cache_subp.add_parser("clear",

```

```

    help="Clear the cache",
    description="Clears everything from the cache"
)
cache_clear.set_defaults(func=clear_cache)

```

This code is used in chunk 46b.

The `clear_cache` function will clear the cache. We simply remove the existing cache file and then exit. If we don't exit using `sys.exit`, the main program will write the cache back again on its exit.

```

47a <functions 28b>+≡
def clear_cache(ls, args):
    """Clear the cached LADOK session data.

    Removes the stored encrypted session file from the user's cache directory.
    Silently ignores if the file doesn't exist.

    Args:
        ls (LadokSession): The LADOK session (unused but required by interface).
        args: Command line arguments (unused).
    """
    try:
        os.remove(dirs.user_cache_dir + "/LadokSession")
    except FileNotFoundError as err:
        pass

    sys.exit(0)

```

This code is used in chunk 27.

4.7 Other subcommands

To add a subcommand we must add a subparser to the subp parser object from above, we do this in *<add subparsers to subp 40>*. Every subcommand exists in a separate module and that module provides the function `add_command_options` that takes subp as an argument.

We add the data subcommand.

```

47b <modules 47b>≡
import ladok3.data

```

This definition is continued in chunks 47d and 48a.

This code is used in chunk 27.

```

47c <add subparsers to subp 40>+≡
ladok3.data.add_command_options(subp)

```

This code is used in chunk 29a.

We add the report command.

```

47d <modules 47b>+≡
import ladok3.report

```

This code is used in chunk 27.

```

47e <add subparsers to subp 40>+≡
ladok3.report.add_command_options(subp)

```

This code is used in chunk 29a.

We add the student command.

48a *<modules 47b>*+≡
import ladok3.student

This code is used in chunk 27.

48b *<add subparsers to subp 40>*+≡
ladok3.student.add_command_options(subp)

This code is used in chunk 29a.

Chapter 5

The course command

We want to compute statistics based on LADOK data. We want to answer the following questions:

- (1) What are the grade distribution of a course round?
- (2) How do grade distributions differ between years (i.e., rounds) for the same course?
- (3) How do grade distributions differ between (similar) courses?
- (4) How is the throughput distribution of a course?
- (5) How do throughput distributions vary between years?

We provide the module `data` (`<<data.py (never defined)>>`) to extract the necessary data from LADOK (Section 5.1). This is a subcommand for the `ladok` command-line interface. It can be used like this:

```
1 ladok course DD1315 > DD1315.csv
```

This program will produce CSV-formated data to answer the questions above. The data is formatted like this:

- course,
- round,
- component,
- student (pseudonym),
- grade,
- either absolute date or normalized to the course start and finish.

5.1 The course subcommand

This is a subcommand run as part of the `ladok3.cli` module. We provide a function `add_command_options` that adds the subcommand options to a given parser. We need access to LADOK through the `ladok3` module. We will also write data to disk in CSV form, so we need the `csv` module.

```
50a <data.py 50a>≡
import csv
import datetime
import ladok3
import os
import sys

<functions 51c>

def add_command_options(parser):
    """Add the 'course' subcommand options to the argument parser.

    Creates a subparser for the course data extraction command with all
    necessary arguments for filtering and output formatting.

    Args:
        parser (ArgumentParser): The parent parser to add the subcommand to.
    """
    <add data parser to parser 50b>
    <add data command arguments to data parser 51b>

def command(ladok, args):
    """Execute the course data extraction command.

    Args:
        ladok (LadokSession): The LADOK session for data access.
        args: Parsed command line arguments containing course and filter options.
    """
    <produce data about course specified in args 51a>
Root chunk (not used in this document).
```

5.1.1 Setting up the data command options

We add a subparser. We set it up to use the function `command`.

```
50b <add data parser to parser 50b>≡
data_parser = parser.add_parser("course",
    help="Returns course results data in CSV form",
    description="")
Returns the results in CSV form for all students on a course round.
By default, all students are included.
Use --exclude-reregistered to exclude students who reregistered.
Use --exclude-credit-transfers to exclude students with credit transfers.
"".strip()
```

```
data_parser.set_defaults(func=command)
```

This code is used in chunk 50a.

5.2 Producing data

We fetch the data from LADOK and print it in CSV format to standard out (`sys.stdout`). This way the user can deal with how to store the data.

```
51a <produce data about course specified in args 51a>≡
data_writer = csv.writer(sys.stdout, delimiter=args.delimiter)
course_rounds = filter_rounds(
    ladok.search_course_rounds(code=args.course_code),
    args.rounds)

if args.header:
    data_writer.writerow([
        "Course", "Round", "Component", "Student", "Grade", "Time"
    ])
for course_round in course_rounds:
    data = extract_data_for_round(ladok, course_round, args)

    for student, component, grade, time in data:
        data_writer.writerow(
            [course_round.code, course_round.round_code, component,
             student, grade, time]
        )
```

This code is used in chunk 50a.

We must take a course code and a delimiter as arguments. We also want to know if we want a header or not.

```
51b <add data command arguments to data parser 51b>≡
data_parser.add_argument("course_code",
    help="The course code of the course for which to export data")

data_parser.add_argument("-d", "--delimiter",
    default="\t",
    help="The delimiter for the CSV output; "
    "default is a tab character to be compatible with POSIX commands, "
    "use -d, ` or -d ,` to get comma-separated values.")

data_parser.add_argument("-H", "--header", action="store_true",
    help="Print a header line with the column names.")
```

This definition is continued in chunks 52a, 53b, and 56.

This code is used in chunk 50a.

We filter the rounds.

```
51c <functions 51c>≡
def filter_rounds(all_rounds, desired_rounds):
    """Returns only the round objects with round code in desired_rounds."""
    if not desired_rounds:
        return all_rounds
```

```

    return filter(
        lambda x: x.round_code in desired_rounds,
        all_rounds
    )

```

This definition is continued in chunks 52b, 54, 56, and 57.

This code is used in chunk 50a.

We need a list of desired rounds.

52a *<add data command arguments to data parser 51b>+≡*

```

data_parser.add_argument("-r", "--rounds", nargs="+",
    help="The round codes for the rounds to include, "
    "otherwise all rounds will be included.")

```

This code is used in chunk 50a.

5.3 Extracting data for a round

Now we want to extract data for a given course round. This is done by the function `extract_data_for_round`. We need access to LADOK through the `ladok` object of type `LadokSession`. We also need the course round through the `course_round` object of type `CourseRound`.

52b *<functions 51c>+≡*

```

def extract_data_for_round(ladok, course_round, args):
    """Extract student result data for a specific course round.

    Processes a course round to extract student results data in CSV format,
    filtering by students and components as specified in args.

    Args:
        ladok (LadokSession): The LADOK session for data access.
        course_round: The course round object to extract data from.
        args: Command line arguments containing filter options.

    Returns:
        list: List of result data dictionaries for CSV output.
    """
    <compute start and length of the course 53c>
    <get the results for the course round 54a>

    students = filter_students(course_round.participants(),
                               args.students)

    for student in students:
        student_results = filter_student_results(student,
                                                  results)

        <determine if student should be included 57a>

    components = filter_components(course_round.components(),
                                   args.components)

```

```

for component in components:
    if len(student_results) < 1:
        result_data = None
    else:
        result_data = filter_component_result(component,
                                              student_results[0]["ResultatPaUtbildningar"])

    if not result_data:
        grade = "-"
        normalized_date = None
    else:
        <extract grade and normalized date from result data 55c>

        <yield student, component, grade and date 53a>

```

This code is used in chunk 50a.

We want to yield the data in CSV form, so we simply yield a tuple. The date is either the normalized date or the date from the result data. The student's identifier will be either the LADOK ID or the student name and personnummer, depending on the command line arguments.

```

53a <yield student, component, grade and date 53a>≡
    yield student.ladok_id if args.ladok_id \
        else student, \
        component, \
        grade, \
        normalized_date if args.normalize_date \
        else result_data["Examinationsdatum"] if result_data \
        else None

```

This code is used in chunk 52b.

```

53b <add data command arguments to data parser 51b>+≡
    data_parser.add_argument("-l", "--ladok-id", action="store_true",
                             help="Use the LADOK ID for the student, "
                             "otherwise the student name and personnummer "
                             "will be used.")
    data_parser.add_argument("-n", "--normalize-date", action="store_true",
                             help="Normalize the date to the start of the course, "
                             "otherwise the date is printed as is.")

```

This code is used in chunk 50a.

5.3.1 Get round data

We need the start of the course and the length to be able to normalize the dates for the grades.

```

53c <compute start and length of the course 53c>≡
    course_start = course_round.start
    course_length = course_round.end - course_start

```

This code is used in chunk 52b.

We must get the results for the course round from LADOK. For this we must use an instance ID of a component. However, LADOK returns the results for all components, not just the one requested for.

```
54a <get the results for the course round 54a>≡
    component = course_round.components()[0]
    results = ladok.search_reported_results_JSON(
        course_round.round_id, component.instance_id)
```

This code is used in chunk 52b.

Now, we don't iterate over these results. We iterate over the students and the components of a course round. LADOK doesn't report 'none results'. But we want to have a result showing that a student hasn't done anything, that should affect the statistics. Then we must search for a student's result in the batch of results we received from LADOK.

```
54b <functions 51c>+≡
def filter_student_results(student, results):
    """Filter results for a specific student.

    Args:
        student: Student object with ladok_id attribute.
        results (list): List of result dictionaries from LADOK.

    Returns:
        list: Filtered list containing only results for the specified student.
    """
    return list(filter(
        lambda x: x["Student"]["Uid"] == student.ladok_id,
        results))
```

This code is used in chunk 50a.

Similarly, we want to find the result for a particular component.

```
54c <functions 51c>+≡
def filter_component_result(component, results):
    """Find the result data for a specific course component.

    Searches through results to find the entry matching the given component.

    Args:
        component: Course component object to search for.
        results (list): List of result dictionaries to search through.

    Returns:
        dict or None: Result data for the component, or None if not found.
    """
    for component_result in results:
        <get the component result data 55a>
        <check component code in result data 55b>
        return result_data

    return None
```

This code is used in chunk 50a.

Depending on whether the data is attested or not, we can get the actual grade and date from two different substructures: ‘Arbetsunderlag’ are results in LADOK that have been entered, but not attested; ‘SenastAttesteradeResultat’ are results that have been attested. They both have the same structure.

```
55a <get the component result data 55a>≡
    if "Arbetsunderlag" in component_result:
        result_data = component_result["Arbetsunderlag"]
    elif "SenastAttesteradeResultat" in component_result:
        result_data = component_result["SenastAttesteradeResultat"]
    else:
        continue
```

This code is used in chunk 54c.

The results only refer to the component’s instance ID, so we must match the component on that ID. The `course_round` object allows us to do exactly that with the `components` method. We note that we can ignore the grade on the whole course, since that one is determined by the other components.

```
55b <check component code in result data 55b>≡
    if component.instance_id != result_data["UtbildningsinstansUID"]:
        continue
```

This code is used in chunk 54c.

Finally, if there is a grade, we can extract the grade and compute the normalized date. However, if there are no results, we set `None`.

We also only consider grades finished during the course. I.e., if the student has finished after the course ended, we set it as not finished. Otherwise, we cannot compare with earlier courses, since then students have had the chance to finish, so we want to see how many didn’t finish on time. We use `args.time_limit` to specify this.

Sometimes, there is a result draft without any date, we ignore these completely.

```
55c <extract grade and normalized date from result data 55c>≡
    if "Betygsgradsobjekt" in result_data:
        grade = result_data["Betygsgradsobjekt"]["Kod"]
        try:
            date = datetime.date.fromisoformat(
                result_data["Examinationsdatum"])
        except KeyError:
            normalized_date = None
            grade = "-"
        else:
            normalized_date = (date - course_start) / course_length
            if args.time_limit and normalized_date > args.time_limit:
                grade = "-"
                normalized_date = None
    else:
        grade = "-"
        normalized_date = None
```

This code is used in chunk 52b.

We must add the command line argument for the limit for the normalized date.

```
56a <add data command arguments to data parser 51b>+=
    data_parser.add_argument("-t", "--time-limit", type=float,
        help="The time (normalized) for cutting off results, "
        "use `-t 1.0` to cut off at course end.")
```

This code is used in chunk 50a.

5.3.2 Filtering data

We might not want all data, but specify on the command-line which data to keep.

We want to filter on students and components.

```
56b <functions 51c>+=
def filter_students(all_students, desired_students):
    """Returns only the students with personnummer in desired_students."""
    if not desired_students:
        return all_students
    return filter(
        lambda x: x.personnummer in desired_students,
        all_students
    )

def filter_components(all_components, desired_components):
    """Returns only the components with a code in the desired_components."""
    if not desired_components:
        return all_components
    return filter(
        lambda x: x.code in desired_components,
        all_components
    )
```

This code is used in chunk 50a.

Now, we must also add the suitable command-line options.

```
56c <add data command arguments to data parser 51b>+=
    data_parser.add_argument("-s", "--students", nargs="+",
        help="List of personnummer for students to include, "
        "otherwise all students will be included.")

    data_parser.add_argument("-c", "--components", nargs="+",
        help="List of component codes for components to include, "
        "otherwise all components will be included.")

    data_parser.add_argument("-x", "--exclude-reregistered", action="store_true",
        help="Exclude students who are reregistered on this round "
        "(i.e., only include students registered for the first time).")

    data_parser.add_argument("-X", "--exclude-credit-transfers", action="store_true",
        help="Exclude students who have credit transfers on the course "
        "(note: credit transfer may be for only part of the course).")
```

This code is used in chunk 50a.

5.4 Which students to include

By default, we include all students on a course round. However, for certain analyses, we may want to exclude some students. The user can optionally exclude reregistered students or students with credit transfers using command-line flags.

```
57a <determine if student should be included 57a>≡
    if not should_include(ladok, student, course_round, student_results,
                          args.exclude_reregistered, args.exclude_credit_transfers):
        continue
```

This code is used in chunk 52b.

We filter students based on the user's choices. If the user has specified `-x` (`--exclude-reregistered`), we exclude students who are reregistered on this round. If the user has specified `-X` (`--exclude-credit-transfers`), we exclude students who have any credit transfer on the course.

```
57b <functions 51c>+≡
def should_include(ladok, student, course_round, result,
                  exclude_reregistered=False, exclude_credit_transfers=False):
    """Returns True if student should be included, False if to be excluded"""
    if exclude_reregistered and is_reregistered(ladok, student.ladok_id, course_round):
        return False

    if exclude_credit_transfers and has_credit_transfer(result):
        return False

    return True
```

This code is used in chunk 50a.

A student should be counted on the first round they were registered on. We check if a student is reregistered by checking if the course round is the first round the student was registered on.

```
57c <functions 51c>+≡
def is_reregistered(ladok, student_id, course):
    """Check if the student is reregistered on the course round course."""
    registrations = ladok.registrations_on_course_JSON(
        course.education_id, student_id)
    registrations.sort(
        key=lambda x: x["Utbildningsinformation"]["Studieperiod"]["Startdatum"])
    first_reg = registrations[0]
    return first_reg["Utbildningsinformation"]["Utbildningstillfalleskod"] != \
        course.round_code
```

This code is used in chunk 50a.

If the student has a credit transfer for any part of the course, we should exclude the student.

```
57d <functions 51c>+≡
def has_credit_transfer(results):
    """Returns True if there exists a credit tranfer among the results."""
    for result in results:
        for component_result in result["ResultatPaUtbildningar"]:
            if component_result["HarTillgodoraknande"]:
```



```
return True
```

```
return False
```

This code is used in chunk [50a](#).

Chapter 6

The report command

We want to report results from the command line. We need the following data for each result:

- course identifier,
- course component,
- student identifier,
- grade, and
- date¹;
- grader 1,
- grader 2,
- ...

¹Optional, we set today's date if not present.

We provide two ways to do this: The first is to provide positional arguments on the command line. The second is to not provide any positional argument, and in this case we read CSV data from standard input.

6.1 The report subcommand

This is a subcommand is run as part of the `ladok3.cli` module. We provide a function `add_command_options` that adds the subcommand options to a given parser. We need access to LADOK through the `ladok3` module.

```
59 <report.py 59>≡
import csv
import datetime
import ladok3
import sys

<functions 60b>

def add_command_options(parser):
    """Add the 'report' subcommand options to the argument parser.
```

Creates a subparser for result reporting with options for single results via command line arguments or batch processing via CSV input.

```

Args:
    parser (ArgumentParser): The parent parser to add the subcommand to.
    """
    report_parser = parser.add_parser("report",
        help="Reports course results to LADOK",
        description="Reports course results to LADOK"
    )
    report_parser.set_defaults(func=command)
    <add report command arguments to report parser 60a>

def command(ladok, args):
    """Execute the result reporting command.

    Args:
        ladok (LadokSession): The LADOK session for data access.
        args: Parsed command line arguments containing result data or CSV options.
    """
    <report results depending on args 66b>

```

Root chunk (not used in this document).

As mentioned above, we provide two ways of doing this.

```

60a <add report command arguments to report parser 60a>≡
    one_parser = report_parser.add_argument_group(
        "one result as positional args, only date is optional")
    <add one result group arguments 65a>
    many_parser = report_parser.add_argument_group(
        "many results read from standard input as CSV, columns: "
        "course, component, student, grade, date, grader 1, ..., grader N")
    <add many results group arguments 61d>

```

This definition is continued in chunk 61b.

This code is used in chunk 59.

6.2 Report the results

We provide two functions, one for each way of reporting the results.

```

60b <functions 60b>≡
def report_one_result(ladok, args):
    """Report a single result specified via command line arguments.

    Args:
        ladok (LadokSession): The LADOK session for data access.
        args: Command line arguments containing course, student, component, and grade info.
    """
    <report results given in args 66a>

def report_many_results(ladok, args):

```

```
"""Report multiple results read from CSV data on stdin.
```

```
Args:
```

```
    ladok (LadokSession): The LADOK session for data access.
```

```
    args: Command line arguments containing CSV processing options.
```

```
"""
```

```
    <report results given in stdin 61c>
```

This definition is continued in chunk 63a.

This code is used in chunk 59.

In both cases, we want to specify whether or not the results should be finalized. We add an option whether we want to finalize the grade for attestation by the examiner. We add this argument outside the two groups, since it's valid for both.

61a <finalize option help 61a>≡

```
    Finalize the grade (mark as ready/klarmarkera) for examiner to attest.
```

```
    Note that without this option, no graders will be registered in LADOK.
```

This code is used in chunk 61b.

61b <add report command arguments to report parser 60a>+≡

```
    report_parser.add_argument("-f", "--finalize",
```

```
        help="""<finalize option help 61a>""",
```

```
        action="store_true",
```

```
        default=False
```

```
)
```

This code is used in chunk 59.

6.3 Report many results given in standard input

We want to read CSV data from standard input.

61c <report results given in stdin 61c>≡

```
    data_reader = csv.reader(sys.stdin, delimiter=args.delimiter)
```

```
    for course_code, component_code, student_id, grade, date, *graders in data_reader:
```

```
        <report a result read from stdin 62b>
```

This code is used in chunk 60b.

We need to add an argument for the delimiter.

61d <add many results group arguments 61d>≡

```
    many_parser.add_argument("-d", "--delimiter",
```

```
        default="\t",
```

```
        help="The delimiter for the CSV input; "
```

```
        "default is a tab character to be compatible with POSIX commands, "
```

```
        "use \-d, \ or \-d, \ to get comma-separated values.")
```

This definition is continued in chunk 62a.

This code is used in chunk 60a.

We also want to handle errors and confirmations. When reporting in bulk, we don't want unnecessary errors. We also want to have a summary of the changes.

```
62a <add many results group arguments 61d>+=
    many_parser.add_argument("-v", "--verbose",
        action="count", default=0,
        help="Increases the verbosity of the output: -v will print results that "
            "were reported to standard out. Otherwise only errors are printed.")
```

This code is used in chunk 60a.

Then we can actually report the result using the values read from stdin.

```
62b <report a result read from stdin 62b>=
    try:
        set_grade(ladok, args,
            student_id, course_code, component_code, grade, date, graders)
    except Exception as err:
        <try to resolve student from ladok using student_id 62c>
        print(f"{course_code} {component_code}={grade} ({date}) {student}: "
            f"{err}",
            file=sys.stderr)
```

This code is used in chunk 61c.

The reason we want to resolve the student from LADOK is that the `student_id` might be a personnummer or a LADOK ID—if the latter, it's not particularly readable for a human and we can't use the LADOK ID in the LADOK web interface when we want to deal with the errors manually. But if we resolve the student, then we get a readable name.

```
62c <try to resolve student from ladok using student_id 62c>=
    try:
        student = ladok.get_student(student_id)
    except Exception:
        student = student_id
```

This code is used in chunks 62b and 66a.

When we set the grade, there are a few cases that should be handled. If the grade isn't attested, we can modify it. First, if the grade is different from what we want, we set the new grade. Then, if we want to finalize, we finalize the grade—this allows us to run the command first without `-f` (to set the grade) and then with `-f` (to finalize it) without getting an error. If we've selected the verbose option, then we print what we have reported.

Results in LADOK go through three states:

Draft Can be modified and finalized.

Finalized Ready for examiner attestation, cannot be modified or finalized again.

Attested Fully locked.

If the result is already finalized (but not attested), we skip trying to modify or finalize it again—this makes the command idempotent. If the result was attested, we check if the grade is different. If it's different, we output an error. If it's the same, we silently ignore it. This is best for bulk reporting, because then we can always try to report for all students.

We want to report errors as exceptions.

```
63a <functions 60b>+≡
def set_grade(ladok, args,
              student_id, course_code, component_code, grade, date, graders):
    """Set a grade for a student's course component result.

    Handles the logic for setting grades, including checking if results are
    already attested, validating dates, and optionally finalizing results.

    Args:
        ladok (LadokSession): The LADOK session for data access.
        args: Command line arguments with options like verbose and finalize.
        student_id (str): Student identifier (personnummer or LADOK ID).
        course_code (str): Course code (e.g., "DD1315").
        component_code (str): Component code (e.g., "LAB1").
        grade (str): Grade to assign (e.g., "P", "F", "A").
        date (str): Examination date in YYYY-MM-DD format.
        graders (list): List of grader identifiers.

    Raises:
        Exception: If the grade setting fails or validation errors occur.
    """
    student = ladok.get_student(student_id)
    <get course from student and course_code 64b>
    <get component from course and component_code 64c>

    if component.attested:
        <handle attested result 64a>
    elif component.finalized:
        <handle finalized result 63c>
    else:
        <handle draft result 63b>
```

This code is used in chunk 59.

If the result is a draft, we can set and finalize the grade as usual.

```
63b <handle draft result 63b>≡
if component.grade != grade:
    <ensure date is a valid date for course 64d>
    component.set_grade(grade, date)
if args.finalize:
    component.finalize(graders)
if args.verbose:
    print(f"{course_code} {student}: reported "
          f"{component.component} = {component.grade} ({date}) "
          f"by {' '.join(graders)}")
```

This code is used in chunk 63a.

If the result is already finalized but not attested, it's waiting for the examiner to attest it. We cannot modify or re-finalize it, so we skip those operations. In verbose mode, we inform the user that the result is already finalized.

```
63c <handle finalized result 63c>≡
```

```

if args.verbose:
    print(f"{course_code} {student}: {component.component} already finalized, "
          f"waiting for attestation.")

```

This code is used in chunk 63a.

If the result is attested, we check if the grade we want to report matches. If not, we raise an error since we cannot change an attested grade. If it matches, we silently succeed since the desired grade is already set.

```

64a <handle attested result 64a>≡
    if component.grade != grade:
        raise ladok3.LadokValidationError(f"attested {component.component} "
                                           f"result {component.grade} ({component.date}) "
                                           f"is different from {grade} ({date}).")

```

This code is used in chunk 63a.

Now we simply want to set those objects up. We want to throw exceptions that explain what the problem is if these don't exist.

```

64b <get course from student and course_code 64b>≡
    try:
        course = student.courses(code=course_code)[0]
    except IndexError:
        raise ladok3.LadokNotFoundError(f"{course_code}: No such course for {student}")

```

This code is used in chunk 63a.

```

64c <get component from course and component_code 64c>≡
    try:
        component = course.results(component=component_code)[0]
    except IndexError:
        raise ladok3.LadokNotFoundError(f"{component_code}: no such component for {course_code}")

```

This code is used in chunk 63a.

Finally, we want to ensure the date is correct. The date must be at the earliest the start of the course. The student can't finish any results before the course has started. LADOK will not accept that.

```

64d <ensure date is a valid date for course 64d>≡
    if not isinstance(date, datetime.date):
        date = datetime.date.fromisoformat(date)

    if date < course.start:
        print(f"{course_code} {component_code}={grade} "
              f"({date}) {student}: "
              f"Grade date ({date}) is before "
              f"course start date ({course.start}), "
              f"using course start date instead.")
        date = course.start

```

This code is used in chunk 63b.

6.4 Report a result given on command line

If we've chosen to give one result on the command line, then we'll need the following arguments.

We start with the course, component code, the student's ID and grade.

```
65a <add one result group arguments 65a>≡
    one_parser.add_argument("course_code", nargs="?",
        help="The course code (e.g. DD1315) for which the grade is for."
    )

    one_parser.add_argument("component_code", nargs="?",
        help="The component code (e.g. LAB1) for which the grade is for. "
        "This can be set to the course code (e.g. DD1315) to set the "
        "final grade for the course. But all components must be "
        "certified (attested) before the course grade can be set."
    )

    one_parser.add_argument("student_id", nargs="?",
        help="Student identifier (personnummer or LADOK ID)."
    )

    one_parser.add_argument("grade", nargs="?",
        help="The grade (e.g. A or P)."
    )
```

This definition is continued in chunk 65.

This code is used in chunk 60a.

We must make them optional like this to make it work with our second alternative (bulk reporting through stdin), so we must check ourselves that we got the arguments.

```
65b <check that we got all positional arguments 65b>≡
    if not (args.course_code and args.component_code and
        args.student_id and args.grade):
        print(f"{sys.argv[0]} report: "
            "not all positional args given: "
            "course_code, component, student, grade",
            file=sys.stderr)
        sys.exit(1)
```

This code is used in chunk 66a.

Next, we have the date. To ensure it's a valid date we'll make argparse convert it to datetime format. If it's not provided, we let argparse set it to today's date.

```
65c <add one result group arguments 65a>+≡
    one_parser.add_argument("date", nargs="?",
        help="Date on ISO format (e.g. 2021-03-18), "
        f"defaults to today's date ({datetime.date.today()}).",
        type=datetime.date.fromisoformat,
        default=datetime.date.today()
    )
```

This code is used in chunk 60a.

Finally, we have the list of graders.

```
65d <add one result group arguments 65a>+≡
    one_parser.add_argument("graders", nargs="*",
        help="Space separated list of who did the grading, "
```



```
"give each grader as 'First Last <email@institution.se>'")
```

This code is used in chunk 60a.

Now that we have the arguments, we can just execute the following code using them.

```
66a <report results given in args 66a>≡
    <check that we got all positional arguments 65b>
    try:
        set_grade(ladok, args,
                   args.student_id, args.course_code, args.component_code,
                   args.grade, args.date, args.graders)
    except Exception as err:
        student_id = args.student_id
        <try to resolve student from ladok using student_id 62c>
        print(f"{args.course_code} {args.component_code}={args.grade} ({args.date}) "
              f"{student}: {err}",
              file=sys.stderr)
```

This code is used in chunk 60b.

6.5 Determine which function to run

We know that if a course code is given as positional argument, then we know that we should report one result from the command line.

```
66b <report results depending on args 66b>≡
    if args.course_code:
        report_one_result(ladok, args)
    else:
        report_many_results(ladok, args)
```

This code is used in chunk 59.

Chapter 7

The student command

We want to show data for a student. For this, we need a student identifier. We want to use it like this:

```
1 ladok student 700101-1234
```

We also want to optionally print courses.

```
1 ladok student 700101-1234 -c "DD131[0-9]"
```

7.1 The student subcommand

This is a subcommand is run as part of the `ladok3.cli` module. We provide a function `add_command_options` that adds the subcommand options to a given parser. We need access to LADOK through the `ladok3` module.

```
67 <student.py 67>=  
    import csv  
    import ladok3.cli  
  
    <functions 69c>  
  
    def add_command_options(parser):  
        """Add the 'student' subcommand options to the argument parser.  
  
        Creates a subparser for displaying student information with options  
        for course filtering and result display.  
  
        Args:  
            parser (ArgumentParser): The parent parser to add the subcommand to.  
        """  
        student_parser = parser.add_parser("student",  
            help="Shows a student's information in LADOK",  
            description="""  
                Show a student's information in LADOK.  
                Shows information like name, personnummer, contact information.  
            """)  
    )
```

```

student_parser.set_defaults(func=command)
<add student command arguments to student parser 68a>

def command(ladok, args):
    """Execute the student information display command.

    Args:
        ladok (LadokSession): The LADOK session for data access.
        args: Parsed command line arguments containing student ID and display options.
    """
    <print info depending on args 69b>

```

Root chunk (not used in this document).

7.2 The student command options

7.2.1 The student identifier

As mentioned above, we want to take one positional argument, the student identifier. Since our API (Section 12.1) can handle both personnummer and LADOK ID transparently, we don't have to care about that either.

68a <add student command arguments to student parser 68a>≡

```

    student_parser.add_argument("id",
        help="The student's ID, either personnummer or LADOK ID"
    )

```

This definition is continued in chunks 68 and 69a.

This code is used in chunk 67.

7.2.2 An optional course identifier

We also want an option for the course code.

68b <add student command arguments to student parser 68a>+≡

```

    student_parser.add_argument("-c", "--course",
        nargs="?", const=".*",
        help="A regular expression for which course codes to list, " \
            "use no value for listing all courses."
    )

```

This code is used in chunk 67.

7.2.3 A results flag

We also want a flag for specifying whether or not to include the results of each course.

68c <add student command arguments to student parser 68a>+≡

```

    student_parser.add_argument("-r", "--results",
        action="store_true", default=False,
        help="Set to include results for each course listed."
    )

```

This code is used in chunk 67.

7.2.4 A contact information flag

We also want a flag for specifying whether or not to include the student's contact information (email, phone, address).

```
69a <add student command arguments to student parser 68a>+=
    student_parser.add_argument("--contact",
        action="store_true", default=False,
        help="Include contact information (email, phone, address).")
    )
```

This code is used in chunk 67.

7.3 Print the student data

Now that we have the student identifier, we can simply use that to fetch the student from LADOK. Note that we access the `student.alive` attribute just to force pulling the personal data from LADOK to trigger any error in the try-statement.

```
69b <print info depending on args 69b>=
    try:
        student = ladok.get_student(args.id)
        student.alive
    except Exception as err:
        ladok3.cli.err(-1, f"can't fetch student data for {args.id}: {err}")

    print_student_data(student, args)

    if args.course:
        print()
        print_course_data(student, args)
```

This code is used in chunk 67.

7.3.1 Printing personal student data

To print the student's personal data, we simply print the most interesting attributes.

```
69c <functions 69c>=
def print_student_data(student, args):
    """Prints the student data, all attributes, to stdout.

    Args:
        student: A Student object with the student's data
        args: Command line arguments, including flags like --contact
    """
    print(f"First name:    {student.first_name}")
    print(f>Last name:    {student.last_name}")
    print(f"Personnummer: {student.personnummer}")
    print(f"LADOK ID:      {student.ladok_id}")
    print(f"Alive:         {student.alive}")
    <print info about suspensions for student 70a>
    <print contact info if requested 70c>
```

This definition is continued in chunk 70d.

This code is used in chunk 67.

We want to print whether the student is currently suspended or not. We want to make this really clear.

```
70a <print info about suspensions for student 70a>≡
    print(f"Suspended:      ", end="")
    if any(map(lambda x: x.is_current, student.suspensions)):
        print("YES")
    else:
        print("no")
```

This definition is continued in chunk 70b.

This code is used in chunk 69c.

Then we also want to print all the times the student has been suspended. We only want to print this if the student has been suspended at least once.

```
70b <print info about suspensions for student 70a>+≡
    if student.suspensions:
        print(f"Suspensions:  ", end="")
        for suspension in student.suspensions:
            print(f"{suspension}", end="\n          ")
        print()
```

This code is used in chunk 69c.

Now we add the contact information display. We only want to print this if the user has requested it using the `--contact` flag.

```
70c <print contact info if requested 70c>≡
    if args.contact:
        print("Contact information:")
        if student.email:
            print(f"Email:          {student.email}")
        if student.phone:
            print(f"Phone:          {student.phone}")
        if student.address:
            print(f"Address:         {student.address[0]}")
            for line in student.address[1:]:
                print(f"                {line}")
```

This code is used in chunk 69c.

7.3.2 Printing student's course data

To print the student's course data, we simply filter the courses on the option that the user supplies. We then print all courses and, if the flag is set, we also print the results for each course.

```
70d <functions 69c>+≡
    def print_course_data(student, args):
        """Prints the courses"""
        print("Courses:")
        for course in student.courses(code=args.course):
            print(f"{course}")
        if args.results:
            for result in course.results():
```

```
print(f" {result}")
```

This code is used in chunk 67.

Part III

The Python library

Chapter 8

Overview

This is the documented source code of the LADOK3 API wrapper for Python, the package `ladok3`. We use the standard structure for the script. We start with the imports and then our class definitions follow in [⟨classes 77⟩](#) and some helper functions in [⟨functions 84⟩](#).

```
73a <ladok3.py 73a>≡
    """A Python wrapper for the LADOK3 API"""
    # -*- coding: utf-8 -*-
    import cachetools
    import datetime
    import functools
    import html
    import json
    import operator
    import re
    import requests
    from requests.adapters import HTTPAdapter
    from urllib3.util.retry import Retry
    import urllib.parse
    import weblogin.ladok
    import weblogin.microsoft

    <lazy session attribute 74>

    <classes 77>
    <functions 84>
```

Root chunk (not used in this document).

We also provide tests for all functionality in [⟨test ladok3.py \(never defined\)⟩](#). These illustrate how to the `ladok3` module and provide testing using `pytest`.

```
73b <test ladok3.py 73b>≡
    import json
    import ladok3
    import os

    <test functions 78a>
```

Root chunk (not used in this document).

8.1 Convenient access to a cached session

For scripts that use the CLI's cached credentials, we provide a convenient module-level attribute `session`. This allows a one-liner pattern:

```
1 import ladok3
2 student = ladok3.session.get_student("191234561234")
```

instead of the usual three-line boilerplate of loading credentials and restoring a cached session manually.

The session lifecycle—load credentials, try to restore a cached session, fall back to creating a fresh one—is shared with the CLI. Rather than duplicating that logic here, we delegate to `ladok3.cli.get_session`, which encapsulates the three-step process. The helper lives in `cli` because that module already owns the credential-loading and session-caching functions it depends on.

Since LADOK sessions contain OAuth tokens that get refreshed during use, we register an `atexit` handler to save the session back to the cache on process exit. This preserves refreshed tokens for the next invocation, just as the CLI does after every command.

We use Python's module-level `__getattr__` (PEP 562) for lazy loading—importing `ladok3` alone does *not* require credentials; the session is loaded only when `session` is first accessed. We import `ladok3.cli` inside `__getattr__` rather than at module level to avoid circular imports, since `cli.py` itself imports `ladok3`.

```
74 <lazy session attribute 74>≡
    _session = None
    _credentials = None

def _save_session():
    if _session is not None and _credentials is not None:
        import ladok3.cli
        ladok3.cli.store_ladok_session(
            _session, _credentials
        )

def __getattr__(name):
    global _session, _credentials
    if name == "session":
        if _session is None:
            import atexit
            import ladok3.cli
            try:
                _session, _credentials = (
                    ladok3.cli.get_session()
                )
            except Exception:
                _session = None
        if _session is None:
            raise RuntimeError(
                "No LADOK credentials found. "
                "Run `ladok login` first, or "
```

```
        "create a session manually with "  
        "ladok3.LadokSession(...)."  
    )  
    atexit.register(_save_session)  
    return _session  
    raise AttributeError(  
        f"module 'ladok3' has no attribute {name!r}"  
    )
```

This code is used in chunk [73a](#).

Chapter 9

Accessing LADOK

To access LADOK we provide a class `LadokSession`. An instance of this class provides the `session` attribute, which is an authenticated session to LADOK's REST API. It uses the `requests` module.

The simplest way to get a session is to use the module-level `ladok3.session` attribute, which handles credential loading, session caching, and cleanup automatically:

```
1 import ladok3
2
3 student = ladok3.session.get_student("123456-1234")
```

For more control, we can use the class directly as follows.

```
1 import ladok3
2 import weblogin.kth
3
4 ladok = ladok3.LadokSession(
5     "KTH Royal Institute of Technology",
6     autologin_handlers=[
7         weblogin.kth.SAMLlogin(),
8         weblogin.kth.UGlogin(os.environ["KTH_LOGIN"],
9                               os.environ["KTH_PASSWD"]),
10    ],
11    test_environment=True) # for experiments
12
```

An alternative way would be to use the general authentication procedure that seems to work at most Swedish universities.

```
1 import ladok3
2
3 ladok = ladok3.LadokSession("KTH Royal Institute of Technology",
4                             vars={"username": os.environ["KTH_LOGIN"],
5                                   "password": os.environ["KTH_PASSWD"]},
6                             test_environment=True) # for experiments
```

Yet another way is to use the `ladok` command's own credential store.

```

1 import ladok3
2 import ladok3.cli
3
4 ladok = ladok3.LadokSession(*ladok3.cli.load_credentials(),
5                             test_environment=True) # for experiments

```

Just note the unpacking `*` to unpack the tuple that `load_credentials` returns.

This chapter covers how the `LadokSession` class work. The remaining chapters cover what the `ladok` object can be used for. Chapter 12 covers how we can work with student data. Chapter 13 covers how we can work with course data.

9.1 The `LadokSession` class

There are two categories of functionality that we want from the `LadokSession` object. The first is the `session` attribute. This is an active and logged-in session that can be used to query LADOK (REST API over HTTPS). The second is the set of methods to get objects of interest, these methods use the `session` attribute to query data to create the objects. We cover the first (the `session` attribute) in this section and the second (the data methods) in Section 9.2.

We want to provide the attribute `session` which is an active and logged-in session for querying LADOK. We must thus handle authentication to LADOK. The authentication for using LADOK is performed using a university SSO system. We will use the `weblogin` package¹ to handle this. This will guarantee that we're always signed in.

¹URL: <https://github.com/dbosk/weblogin>

```

77 <classes 77>≡
    class LadokSession:
        """This is an interface for reading and writing data from and to LADOK."""
        def __init__(self, institution, vars=None, autologin_handlers=None,
                     test_environment=False, notification_cmd=None):
            """
            Creates a session with LADOK.
            - `institution` is the name (str) of the university that will give a unique
              match when searching SeamlessAccess.org (see weblogin.ladok.SSOlogin).
            - `vars` is a dictionary that is passed to weblogin.ladok.SSOlogin to
              supply the login credentials. Usually contains keys 'username' and
              'password', see weblogin.ladok.SSOlogin documentation for details.
            - `autologin_handlers` is a list of weblogin.AutologinHandler objects
              specific to the institution. Usually one for the SAML handler and one for
              the actual login server. (For KTH it's weblogin.kth.SAMLlogin and
              weblogin.kth.UGlogin.) Default value is None, only the
              `weblogin.ladok.SSOlogin` handler will be used.
              A `weblogin.microsoft.AzureMFA` handler is always appended automatically
              to handle Microsoft Authenticator MFA challenges.
            - `test_environment` specifies whether we should use LADOK's test
              environment instead of the production environment.
            - `notification_cmd` is an optional command (str) used to notify the user
              of the MFA number (e.g. 'notify-send'). The environment variable
              WEBLOGIN_MFA_NOTIFICATION takes precedence if set.
            """
            self.__session = None

```

<construct the session object from the autologin handlers 78b>
<LadokSession constructor body 83>

```
@property
def session(self):
    """A guaranteed to be active and logged in requests session to LADOK"""
    return self.__session

@session.setter
def session(self, new_value):
    self.__session = new_value
```

<LadokSession data methods 88>

This definition is continued in chunks 80–82, 89, 90, 94a, 99c, 102, 109, 112, and 114c.
 This code is used in chunk 73a.

Now let's test this class. We create a single LadokSession object at the module level that is shared across all tests. This minimizes the number of MFA authentications required when running the test suite, since each session creation triggers a full login flow.

```
78a <test functions 78a>≡
    ladok = ladok3.LadokSession(
        os.environ["LADOK_INST"],
        vars={"username": os.environ["LADOK_USER"],
            "password": os.environ["LADOK_PASS"]},
        test_environment=True,
        notification_cmd="notify-send")

def test_LadokSession_vars():
    assert ladok.user_info_JSON()
```

This definition is continued in chunks 85–87.
 This code is used in chunk 73b.

9.1.1 Construct the session using weblogin

To construct the session, we simply construct a `weblogin.AutologinSession` object. This one requires a list of `weblogin.AutologinHandler` objects.

We simply pass the institution to the constructor of the `weblogin.ladok.SSOlogin` class. We add that to the list of autologin handlers supplied by the user. Due to the internal workings of `weblogin.AutologinSession`, we add it first as a, probably negligible, optimization.

Many Swedish universities use Microsoft's identity platform, which may require multi-factor authentication (MFA) via Microsoft Authenticator. We add a `weblogin.microsoft.AzureMFA` handler at the end of the handler list to handle this transparently. It is placed last because MFA challenges occur after password authentication. The handler is passive: if no MFA challenge is encountered, it does nothing. Users can configure a custom notification command via the `WEBLOGIN_MFA_NOTIFICATION` environment variable.

```
78b <construct the session object from the autologin handlers 78b>≡
    if not vars:
        vars = {}
```

```

if not autologin_handlers:
    autologin_handlers = []

autologin_handlers.insert(0,
    weblogin.ladok.SSOlogin(institution, vars=vars,
        test_environment=test_environment))

autologin_handlers.append(
    weblogin.microsoft.AzureMFA(notification_cmd=notification_cmd))

self.__session = weblogin.AutologinSession(autologin_handlers)
<configure retry policy for the session 80a>

```

This code is used in chunk 77.

9.1.2 Retry policy for network resilience

Network operations can fail transiently due to temporary connectivity issues, server overload, or other intermittent problems. To make the LADOK API wrapper more robust, we implement an automatic retry mechanism with exponential backoff.

The retry policy addresses the “why” behind network failures: they are often temporary. Rather than immediately failing when encountering a network error or server overload (5xx errors), we wait and try again. The exponential backoff prevents overwhelming an already struggling server while still providing reasonable response times for transient failures.

We use the `urllib3.util.retry.Retry` class, which provides sophisticated retry logic, combined with `requests.adapters.HTTPAdapter` to integrate it into our session. This approach is preferable to manual retry loops because it:

- Handles backoff timing automatically with exponential growth
- Respects HTTP standards (like `Retry-After` headers)
- Integrates seamlessly with the `requests` session infrastructure
- Applies to all HTTP methods uniformly

We configure the retry policy as follows:

Total retries We set a maximum of 10 retry attempts. With exponential backoff starting at 1 second, this allows for approximately 5 minutes of total retry time (1, 2, 4, 8, 16, 32, 64, 128, 256, 300 seconds = ~5 minutes when capped at 300 seconds).

Backoff factor We use a backoff factor of 1, meaning the wait time between retries is $\{\text{backoff factor}\} \times 2^{(\text{retry number}-1)}$ seconds. The first retry waits 1 second, the second waits 2 seconds, the third waits 4 seconds, and so on.

Maximum backoff We cap the backoff at 300 seconds (5 minutes) to prevent excessively long waits on later retries while still allowing the full retry sequence to span approximately 5 minutes total.

Status forcelist We retry on HTTP status codes 500 (Internal Server Error), 502 (Bad Gateway), 503 (Service Unavailable), and 504 (Gateway Timeout). These indicate temporary server-side issues that often resolve quickly.

Allowed methods We allow retries on all HTTP methods including GET, POST, PUT, and DELETE. While POST/PUT/DELETE are not idempotent by HTTP standards, LADOK's API design makes these operations safe to retry (results are either already recorded or will be recorded on retry).

```
80a <configure retry policy for the session 80a>≡
    retry_strategy = Retry(
        total=10,
        backoff_factor=1,
        backoff_max=300,
        status_forcelist=[500, 502, 503, 504],
        allowed_methods=["HEAD", "GET", "PUT", "DELETE", "OPTIONS", "TRACE",
                        "POST"]
    )
    adapter = HTTPAdapter(max_retries=retry_strategy)
    self.__session.mount("http://", adapter)
    self.__session.mount("https://", adapter)
```

This code is used in chunk 78b.

The mount method attaches the retry-enabled adapter to both HTTP and HTTPS URLs, ensuring all requests through this session benefit from automatic retries.

9.2 The LadokSession data methods

The data methods are essentially factories for various objects mapping to data in LADOK. We will first look at the base classes and then provide methods that return instances of various subclasses.

9.2.1 LADOK data base class: LadokData

Some objects will only have read-only attributes, like grade scales, whereas others, like students, will have modifiable attributes, such as results, which must be synced.

We will provide properties for the various attributes. This way we can have read-only properties for attributes that cannot be changed, such as students' names, and read-write properties for attributes that can be changed, such as results.

We also want to serialize the data. We will use the JSON format for this. We provide this as a read only property json. If the output of json is given as the kwargs parameter to the make_properties method, it will restore all the attributes.

We provide the LadokData class with a constructor that takes keyword arguments (**kwargs). These are not used, but just so that we can add `super().__init__(**kwargs)` at the top of every constructor of the child classes.

Thus, we have the following base class.

```
80b <classes 77>+≡
class LadokData:
    """Base class for LADOK data"""
    def __init__(self, /, **kwargs):
        pass

    def make_properties(self, kwargs):
        """Turn keywords into private attributes and read-only properties"""
```

<set up read-only properties 82a>

```
def __eq__(self, other):
    if type(self) == type(other):
        return self.__dict__ == other.__dict__
    return False

def __repr__(self):
    return str(self.json)

@property
def json(self):
    """JSON compatible dictionary representation of the object"""
    json_format = self.__dict__.copy()
    for key, value in json_format.items():
        if isinstance(value, LadokData):
            json_format[key] = value.json
    json_format["type"] = type(self).__name__
    return json_format
```

This code is used in chunk 73a.

9.2.2 To and from JSON format

We want to be able to restore an object from that JSON formatted dictionary. We provide a function `restore`, which restores an object from a JSON-like dictionary. The `restore` function uses the constructor and, in turn, the `__setup_properties` method.

81a

<function 81a>≡

```
def restore(json_dict):
    if "type" not in json_dict:
        return LadokData(**json_dict)
```

<check type and return such object (never defined)>

```
raise TypeError(f"cannot restore type {json_dict.type}, not a known type")
```

Root chunk (not used in this document).

For completeness, we also provide `LadokDataEncoder`, a subclass of `JSONEncoder`.

81b

<classes 77>+≡

```
class LadokDataEncoder(json.JSONEncoder):
    """JSON encoder for LadokData objects.
```

```
Extends JSONEncoder to properly serialize LadokData objects using their
json property for consistent JSON output.
"""
```

```
def default(self, object):
    """Convert LadokData objects to JSON-serializable format.
```

```
Args:
    object: The object to encode.
```



```

Returns:
    dict: JSON representation for LadokData objects, or default handling.
"""
    if isinstance(object, LadokData):
        return object.json
    return super().default(object)

```

This code is used in chunk 73a.

For the `__setup_properties` method, we want it to set up private attributes and read-only properties for them. For each keyword in `kwargs`, we add the private attribute using `setattr(self, ...)` and the corresponding property to the class itself using `setattr(type(self), ...)`. (Note that we only add the property if it doesn't already exist.) We check the names, if the attributes already match the pattern for a private attribute name, we don't 'privatize' it again.

```

82a <set up read-only properties 82a>≡
    for attribute in kwargs:
        # private attributes are named on the form _class__attribute
        priv_attr_prefix = f"_{type(self).__name__}__"
        if priv_attr_prefix in attribute:
            priv_attr_name = attribute
            property_name = attribute.replace(priv_attr_prefix, "")
        else:
            priv_attr_name = priv_attr_prefix + attribute
            property_name = attribute

        setattr(self, priv_attr_name, kwargs[attribute])
        if not hasattr(type(self), property_name):
            setattr(type(self), property_name,
                    property(operator.attrgetter(priv_attr_name)))

```

This code is used in chunk 80b.

9.2.3 LADOK remote data base class: `LadokRemoteData`

The objects that can be modified can also be updated. They can be updated locally, which must be pushed to LADOK; they can be changed remotely, which must be pulled from LADOK. These objects must also keep a LADOK session internally (`self.ladok`).

```

82b <classes 77>+≡
    class LadokRemoteData(LadokData):
        """Base class for remote LADOK data"""
        def __init__(self, /, **kwargs):
            super().__init__(**kwargs)
            if "_LadokRemoteData__ladok" in kwargs:
                self.make_properties(**kwargs)
            else:
                self.__ladok = kwargs.pop("ladok")

        @property
        def ladok(self):

```

```

    return self.__ladok

def pull(self):
    """Pull updates for object from LADOK"""
    raise NotImplementedError("This object doesn't support pulling from LADOK")

def push(self):
    """Push changes made to the object to LADOK"""
    raise NotImplementedError("This object doesn't support pushing to LADOK")

```

This code is used in chunk 73a.

The LADOK session object provides some methods for searching for data, e.g., students. These methods will return instances of `LadokData` or `LadokRemoteData`.

9.2.4 Cached methods

Since the objects that can be updated can update themselves (`LadokRemoteData`), we can cache the factories to speed up interaction with LADOK. Since Python uses references for objects, a cached object will always be up-to-date if the program has made changes to it. This way we don't have to interact with the LADOK servers for every request, but only when necessary.

We will have a shared cache for all methods.

83 `<LadokSession constructor body 83>≡`
`self.cache = {}`

This code is used in chunk 77.

Then we can make the method caching by the following code.

```

1  @cachetools.cachedmethod(
2      operator.attrgetter("cache"),
3      key=functools.partial(cachetools.keys.hashkey, "method"))
4  def method(self, *args):
5      pass

```

However, this construction cannot handle non-hashable objects (e.g., dictionaries and lists) as arguments. But the JSON representation of objects should be possible to make hashable.

Chapter 10

Helper functions

We have several helper functions that are useful throughout.

10.1 Filter on keys

Many data methods will filter objects based on attributes. We provide a function that takes a list of objects and a dictionary. Each key in the dictionary corresponds to an attribute for the objects. The value corresponding to the key, is checked for matching.

We will provide the following function, `filter_on_keys`, which does exactly that. This implementation runs through the (remaining) items once per keyword, meaning it's conjunctive — all key-values must match the attribute values of the objects.

We use the function `compare_values` to compare the values, we'll get back to that function below.

```
84 <functions 84>≡
def filter_on_keys(items, /, **kwargs):
    """
    Input:
    - items is a list of objects.
    - kwargs is a dictionary where keys match the attributes of the objects in
      items.

    Output:
    - Only objects where *all* key--value pairs match for the corresponding
      attributes.
    - If values are strings, the value from kwargs is interpreted as a regular
      expression.

    Example:
    student.first_name = "Student"
    student.last_name = "Studentdotter"

    filter_on_keys([student], first_name="Student")
    gives [student]
    filter_on_keys([student], first_name="Student", last_name="Studentsson")
    gives []
    """
```

```

for key in kwargs:
    items = filter(
        lambda x: compare_values(operator.attrgetter(key)(x), kwargs[key]),
        items)
    return list(items)

```

This definition is continued in chunks 85–87 and 94b.

This code is used in chunk 73a.

We test this function with the following tests.

```

85a <test functions 78a>+≡
def test_filter_on_keys():
    class Object:
        pass

    student1 = Object()
    student1.first_name = "Student"
    student1.last_name = "Studentsdotter"
    student2 = Object()
    student2.first_name = "Student"
    student2.last_name = "Studentsson"

    students = [student1, student2]
    assert ladok3.filter_on_keys(students, first_name="Student") == students
    assert ladok3.filter_on_keys(students,
        first_name="Student", last_name="Studentsdotter") == [student1]
    assert ladok3.filter_on_keys(students,
        last_name="Students(dotter|son)") == students

```

This code is used in chunk 73b.

To achieve disjunctive behaviour, we must run `filter_on_keys` once per keyword. However, that causes problems if an item matches on more than one key. The following function solves that problem by not checking an item against more keys once it has matched one key.

```

85b <functions 84>+≡
def filter_on_any_key(items, /, **kwargs):
    """
    Input:
    - items is a list of objects.
    - kwargs is a dictionary where keys match the attributes of the objects in
      items.

    Output:
    - Only objects where *any* key--value pairs match for the corresponding
      attributes.
    - If values are strings, the value from kwargs is interpreted as a regular
      expression.

    Example:
    student.first_name = "Student"
    student.last_name = "Studentsdotter"

```

```

filter_on_keys([student], first_name="Student")
    gives [student]
filter_on_keys([student], first_name="Student", last_name="Studentsson")
    gives [student]
"""
matching_items = []
for item in items:
    for key in kwargs:
        if compare_values(operator.attrgetter(key)(item), kwargs[key]):
            matching_items.append(item)
            break

return matching_items

```

This code is used in chunk 73a.

We test this function with the following tests.

86a *<test functions 78a>+≡*

```

def test_filter_on_any_key():
    class Object:
        pass

    student1 = Object()
    student1.first_name = "Student"
    student1.last_name = "Studentsdotter"
    student2 = Object()
    student2.first_name = "Student"
    student2.last_name = "Studentsson"

    students = [student1, student2]
    assert ladok3.filter_on_any_key(students,
        first_name="Student", last_name="Studentsdotter") == students

```

This code is used in chunk 73b.

The function `compare_values` is how we compare the values. The reason we don't simply replace it with the `==` operator is that for strings, we actually want to use regular expressions for matching. The downside of this is that we might accidentally get substring matches when we expect exact matches. E.g., `F` will match both `F` and `Fx` unless we specify `^F$`.

86b *<functions 84>+≡*

```

def compare_values(val1, val2):
    """
    Compares val1 and val2:
    - if val1 and val2 both are strings, then val2 is interpreted as a regular
      expression.
    - otherwise we use ==
    """
    if isinstance(val1, str) and isinstance(val2, str):
        return re.search(val2, val1)

    return val1 == val2

```

This code is used in chunk 73a.

We test this function with the following tests.

```
87a <test functions 78a>+≡
def test_compare_values():
    assert ladok3.compare_values("Studentsdotter", "^Student")
    assert ladok3.compare_values("Studentsdotter", "dotter")
    assert not ladok3.compare_values("Studentsdotter", "son")
    assert ladok3.compare_values(1, 1)
    assert not ladok3.compare_values(1, 2)
```

This code is used in chunk 73b.

10.2 Extracting translations

In many cases, LADOK provides several translations. They do that in the form of this JSON structure:

```
1 {
2   "Benamning": [
3     {
4       "Sprakkod": "sv",
5       "Text": "Laborationer",
6       "link": []
7     },
8     {
9       "Sprakkod": "en",
10      "Text": "Programming Assignments",
11      "link": []
12    }
13  ]
14 }
```

We provide the function `get_translation` to get the Text based on a specified Sprakkod.

```
87b <functions 84>+≡
def get_translation(lang_code, list_of_translations):
    for translation in list_of_translations:
        if translation["Sprakkod"] == lang_code:
            return translation["Text"]
    raise KeyError(f"no translation for language {lang_code}")
```

This code is used in chunk 73a.

Chapter 11

Grading scales

LADOK has various grading scales. Whenever we deal with results, we must use them and their identifiers. We provide classes that wraps LADOK's grading scales: `GradeScale` and `Grade`. We also provide a method, `get_grade_scales`, which returns a list of `GradeScale` objects.

11.1 The `get_grade_scales` method

We start with the method that returns the grading-scales objects. This method interacts with LADOK, so we want to cache its responses. We also want to be able to filter the responses, we do this by keyword arguments.

```
88 <LadokSession data methods 88>≡
    @cachetools.cachedmethod(
        operator.attrgetter("cache"),
        key=functools.partial(cachetools.keys.hashkey, "grade_scale"))
    def get_grade_scales(self, /, **kwargs):
        """Return a list of (un)filtered grade scales"""
        if len(kwargs) == 0:
            return [GradeScale(**scale_data)
                    for scale_data in self.grade_scales_JSON()]

        return filter_on_keys(self.get_grade_scales(), **kwargs)
```

This definition is continued in chunks 93 and 101.

This code is used in chunk 77.

The `grade_scales_JSON` method is part of the LADOK API and is documented in Section 16.1.

11.2 The `GradeScale` and `Grade` classes

We need a class for grade scales. This object should be read only and we never need to update it, so we can base it on `LadokData`. `kwargs` will have the following format:

```
1 {
2   "Benamning": {
3     "sv": "Engradig skala f\u00f6r deltagande",
4     "en": "One-grade scale for participation only"
```

```

5     },
6     "Beskrivning": {},
7     "Betygsgrader": [
8         {
9             "Benamning": {
10                 "sv": "Deltagit",
11                 "en": "Participated"
12             },
13             "Dolt": false,
14             "GiltigSomSlutbetyg": true,
15             "ID": "102041",
16             "Kod": "D",
17             "Ordningsnummer": 1,
18             "link": []
19         }
20     ],
21     "Dolt": true,
22     "Giltighetsperiod": {
23         "link": []
24     },
25     "ID": "102040",
26     "Kod": "DT",
27     "LarosateID": -1,
28     "link": []
29 }

```

This makes the follow class design suitable.

```

89 <classes 77>+≡
class GradeScale(LadokData):
    """A grade scale"""
    def __init__(self, /, **kwargs):
        super().__init__(**kwargs)

    if "_GradeScale__id" in kwargs:
        self.make_properties(**kwargs)
    else:
        self.__id = int(kwargs.pop("ID"))
        self.__code = kwargs.pop("Kod")
        self.__name = kwargs.pop("Benamning")["sv"]
        self.__grades = [Grade(**grade_data)
                          for grade_data in kwargs.pop("Betygsgrader")]

    @property
    def id(self):
        return self.__id

    @property
    def code(self):
        return self.__code

```



```

@property
def name(self):
    return self.__name

def grades(self, /, **kwargs):
    """Returns grades filtered on keyword"""
    return filter_on_keys(self.__grades, **kwargs)

def __contains__(self, grade):
    <test if grade is in grading scale 91a>

def __iter__(self):
    <iterate over grades in grading scale 91b>

```

This code is used in chunk 73a.

Then we need a class for the grades themselves. We construct a grade from the LADOK JSON data. We also implement easy comparison so that we can search for the string 'A' instead of the Grade object for the A grade.

```

90 <classes 77>+≡
class Grade(LadokData):
    """An individual grade part of a grade scale"""
    def __init__(self, /, **json_data):
        """Constructor taking a dictionary (JSON-like) structure"""
        if "_Grade__id" in json_data:
            self.make_properties(**json_data)
        else:
            self.__id = int(json_data.pop("ID"))
            self.__code = json_data.pop("Kod")
            self.__accepted = json_data.pop("GiltigSomSlutbetyg")

    @property
    def id(self):
        return self.__id

    @property
    def code(self):
        return self.__code

    def __str__(self):
        return self.code

    @property
    def accepted(self):
        return self.__accepted

    def __eq__(self, other):
        if isinstance(other, Grade):
            return self.__dict__ == other.__dict__
        elif isinstance(other, str):
            return self.code == other

```

```
else:
```

```
    raise NotImplementedError(f"can't test equality with {type(other)}")
```

This code is used in chunk 73a.

Checking if a grade is in a grading scale We can now easily implement the check if a grade is in a grading scale.

91a *<test if grade is in grading scale 91a>*≡
 return grade in self.__grades

This code is used in chunk 89.

This works even if grade is a string, thanks to how `__eq__` is implemented in the `Grade` class.

Similarly, we can iterate over the grades in the grading scale.

91b *<iterate over grades in grading scale 91b>*≡
 return iter(self.__grades)

This code is used in chunk 89.

Chapter 12

Students

This chapter treats how we can work with student data. We can get student data from LADOK using the `LadokSession` class. We first create the `ladok` object, an instance of a LADOK session.

```
1 import ladok3
2 import os
3
4 ladok = ladok3.LadokSession("KTH",
5                             vars={
6                                 "username": os.environ["KTH_LOGIN"],
```

This is the same as in Chapter 9.

Next we want to access data of a student. We can refer to the student by person-nummer or the unique LADOK ID.

```
8                                     },
9                                     test_environment=True) # for experiments
10
11 me = ladok.get_student("8506097891")
12 me2 = ladok.get_student("de709f81-a867-11e7-8dbf-78e86dc2470c")
13
```

This gives us objects of the `Student` class. The objects `me` and `me2` both refer to the same person, so the outputs should be the same.

We can see which course instances the student is registered on (throughout history).

```
16 print(f"{me.ladok_id} == {me2.ladok_id}")
17 print()
```

We can select a particular course and we can get the results for that course in the same way.

```
19 for course in me.courses():
20     print(f"{course.code} {course.name}")
21
22 course = me.courses(code="DD2395")[0]
23
24 print(f"{course.code} results:")
```

```

25 for result in course.results():
26     s = f"{course.code}"
27     if result.component:
28         s += f" {result.component}"
29     s += f" {result.grade}"

```

We can check if the result is attested or not. If it's not attested, we can change it.

```

32     print(s)
33 print()
34
35 student = ladok.get_student("1234561234")
36 datintro = student.courses(code="DD1301")[0]
37
38 print(f"{student.personnummer} {student.first_name} {student.last_name}")
39
40 for result in datintro.results():
41     print(f"{result.component} {result.grade} ({result.date})", end="")
42     if not result.attested:
43         print("*")
44     else:
45         print()
46
47 print("Changing grades")
48
49 try:
50     lab1 = datintro.results(component="LAB1")[0]
51     lab1.set_grade("P", "2022-11-18")

```

12.1 Getting students from LADOK

Perhaps the main data that we want to access is that of a student. We provide two ways to identify the student. The personal identity number (Swedish *personnummer*) and the unique LADOK identifier. These are so different in format that we can distinguish one from the other. However, we can delegate this job to the Student class.

```

93 <LadokSession data methods 88>+≡
    @cachetools.cachedmethod(
        operator.attrgetter("cache"),
        key=functools.partial(cachetools.keys.hashkey, "get_student"))
    def get_student(self, id):
        """Get a student by unique ID, returns a Student object"""
        # note that self is the required LadokSession object
        return Student(ladok=self, id=id)

```

This code is used in chunk 77.

12.2 The Student class

We can create a Student object from an identifier and a LadokSession object. Then the Student object can fetch data from LADOK and update any changes.

We can determine if an identifier is a personnummer or LADOK ID. Based on either of those unique identifiers we can fetch the rest of the data using the LADOK session `self.ladok`.

94a *<classes 77>+≡*

```
class Student(LadokRemoteData):
    """Class representing a student and related data"""
    def __init__(self, /, **kwargs):
        """Requires ladok (a LadokSession object),
        id (either a personnummer or LADOK ID)"""
        super().__init__(**kwargs)
        id = kwargs.pop("id")
        self._personnummer = format_personnummer(id)
        if not self._personnummer:
            self._ladok_id = id
        else:
            self._ladok_id = None

    def pull(self):
        """pull student data from LADOK"""
        <pull all attributes from LADOK 96a>
```

<student attribute methods 95>

This code is used in chunk 73a.

We use the function `format_personnummer` to format a personnummer according to LADOK's requirements. This function returns `None` if it's not a personnummer, in which case we assume that it is a LADOK ID in the code above.

94b *<functions 84>+≡*

```
def format_personnummer(person_nr_raw):
    """Returns None or a LADOK-formated person nr"""
    pnrregex = re.compile(r"^(\d\d)?(\d\d)(\d\d\d\d)[+~]?(\w\w\w\w)$")
    pnr = pnrregex.match(person_nr_raw)
    if pnr:
        now = datetime.datetime.now()
        if pnr.group(1) == None: # first digits 19 or 20 missing
            if now.year - 2000 >= int(pnr.group(2)) + 5: # must be > 5 years old
                return "20" + pnr.group(2) + pnr.group(3) + pnr.group(4)
            else:
                return "19" + pnr.group(2) + pnr.group(3) + pnr.group(4)
        else:
            return pnr.group(1) + pnr.group(2) + pnr.group(3) + pnr.group(4)
    else:
        return None
```

This code is used in chunk 73a.

Note that we must match the start and end in the regex, otherwise we sometimes match parts of LADOK IDs as personnummer.

12.3 Students' personal attributes

The student's personal attributes are the following. We use the helper method `__get_personal_attributes` which pulls all personal attributes, since LADOK returns all of these in one call.

```

95 <student attribute methods 95>≡
def __get_personal_attributes(self):
    """Helper method that fetches personal attributes"""
    <pull student attributes from LADOK 96b>

@property
def ladok_id(self):
    """Return the student's LADOK ID"""
    try:
        if self.__ladok_id:
            return self.__ladok_id
    except:
        pass
    self.__get_personal_attributes()
    return self.__ladok_id

@property
def personnummer(self):
    """Return the student's personnummer"""
    try:
        if self.__personnummer:
            return self.__personnummer
    except:
        pass
    self.__get_personal_attributes()
    return self.__personnummer

@property
def first_name(self):
    """Return the student's first name"""
    try:
        return self.__first_name
    except:
        self.__get_personal_attributes()
        return self.__first_name

@property
def last_name(self):
    """Return the student's last name"""
    try:
        return self.__last_name
    except:
        self.__get_personal_attributes()
        return self.__last_name

def __str__(self):

```

```
return f"{self.personnummer} {self.first_name} {self.last_name}"
```

```
@property
def alive(self):
    """Return whether student is alive or not"""
    try:
        return self.__alive
    except:
        self.__get_personal_attributes()
        return self.__alive
```

<student contact attribute methods 96c>

This definition is continued in chunks 98 and 100.

This code is used in chunk 94a.

Then we can call that method to update all attributes.

96a *<pull all attributes from LADOK 96a>*≡

```
self.__get_personal_attributes()
```

This definition is continued in chunk 99a.

This code is used in chunk 94a.

When we pull the student attributes from LADOK, we can use either of the two IDs: `self.personnummer` and `self.ladok_id`. (However, we avoid using the properties above in this code, since we don't want to recursively trigger the fetch ad absurdum.) Depending on which attribute is set, we pull the data differently.

96b *<pull student attributes from LADOK 96b>*≡

```
if self.__ladok_id:
    record = self.ladok.get_student_data_by_uid_JSON(self.__ladok_id)
elif self.__personnummer:
    record = self.ladok.get_student_data_JSON(self.__personnummer)
else:
    raise AttributeError("neither personnummer, nor LADOK ID set")

self.__ladok_id = record['Uid']
self.__personnummer = record['Personnummer'] # twelve digits only
self.__first_name = record['Fornamn']
self.__last_name = record['Efternamn']
self.__alive = not record['Avliden']
```

This code is used in chunk 95.

12.4 Students' contact attributes

The contact attributes include email, phone number, and postal address information. We use the `__get_contact_attributes` helper method to populate these attributes from a separate LADOK API call.

96c *<student contact attribute methods 96c>*≡

```
@property
def email(self):
    """Return the student's email address"""
    try:
```

```

        return self.__email
    except:
        self.__get_contact_attributes()
    return self.__email

@property
def phone(self):
    """Return the student's phone number"""
    try:
        return self.__phone
    except:
        self.__get_contact_attributes()
    return self.__phone

@property
def address(self):
    """Return the student's postal address as a list of lines"""
    try:
        return self.__address
    except:
        self.__get_contact_attributes()
    return self.__address

def __get_contact_attributes(self):
    """Helper method that fetches contact attributes"""
    (pull student contact attributes from LADOK 97)

```

This code is used in chunks 95 and 98a.

```

97  (pull student contact attributes from LADOK 97)≡
    try:
        contact_data = self.ladok.get_student_contact_data_JSON(self.ladok_id)

        # Extract email address
        self.__email = None
        if 'Epost' in contact_data and contact_data['Epost']:
            for email in contact_data['Epost']:
                if 'Adress' in email:
                    self.__email = email['Adress']
                break

        # Extract phone number
        self.__phone = None
        if 'Telefon' in contact_data and contact_data['Telefon']:
            for phone in contact_data['Telefon']:
                if 'Nummer' in phone:
                    self.__phone = phone['Nummer']
                break

        # Extract postal address
        self.__address = []

```



```

if 'Postadress' in contact_data and contact_data['Postadress']:
    addr = contact_data['Postadress']
    if isinstance(addr, list) and len(addr) > 0:
        addr = addr[0]
    if isinstance(addr, dict):
        for field in ['Adressrad1', 'Adressrad2', 'Adressrad3']:
            if field in addr and addr[field]:
                self.__address.append(addr[field])
        if 'Postnummer' in addr and addr['Postnummer'] and 'Postort' in addr and addr['Postort']:
            self.__address.append(f"{addr['Postnummer']} {addr['Postort']}")

except Exception:
    # If contact data can't be retrieved, set default empty values
    self.__email = None
    self.__phone = None
    self.__address = []

```

This code is used in chunk 96c.

98a *<student attribute methods 95>+≡*
<student contact attribute methods 96c>

This code is used in chunk 94a.

12.5 Students' study-related attributes

The study related attributes are courses and course results. Similarly to above, we use the `__get_study_attributes` helper method to populate all study-related attributes that LADOK returns in one request.

98b *<student attribute methods 95>+≡*

```

def __get_study_attributes(self):
    """Helper method to fetch study related attributes"""
    <create a list of the student's course objects 99b>

def courses(self, /, **kwargs):
    """
    Returns a list of courses that the student is registered on.
    Filtered based on keywords, see ladok3.filter_on_keys for details.
    """
    try:
        courses = self.__courses
    except:
        self.__get_study_attributes()
        courses = self.__courses

    return filter_on_keys(courses, **kwargs)

```

This code is used in chunk 94a.

Then we can call the last method when we want to pull all attributes too (using the pull method).

99a *<pull all attributes from LADOK 96a>+≡*
`self.__get_study_attributes()`

This code is used in chunk 94a.

To create a list of the student's course registrations, we use the `registrations_JSON` API method.

99b *<create a list of the student's course objects 99b>≡*
`self.__courses = []`

```
for course in self.ladok.registrations_JSON(self.ladok_id):
    if not course['Nuvarande'] or \
        'Utbildningskod' not in course['Utbildningsinformation']:
        continue

    self.__courses.append(CourseRegistration(
        ladok=self.ladok,
        student=self,
        **course['Utbildningsinformation']))
```

This code is used in chunk 98b.

12.6 Is the student suspended?

We also want to know if a student is suspended or not. We can get a list of suspensions for a student. This list looks like this:

```
1  [
2    {"Anteckning": "VJ-2024-...",
3     "Giltighetsperiod": {"Slutdatum": "2024-12-03",
4                          "Startdatum": "2024-09-25", "link": []},
5     "LarosateID": 29,
6     "OrsakID": 101450,
7     "SenastAndradAv": "someone@kth.se",
8     "SenastSparad": "2024-09-24T16:45:56.941",
9     "StudentUID": "...",
10    "Uid": "...",
11    "link": [{"method": "GET",
12               "uri": "https://api.ladok.se:443/studentinformation/internal/avstangning/...",
13               "mediaType": "application/vnd.ladok+xml",
14               "rel": "self"}]}
15  ]
16 ]
```

Let's make a class for this.

99c *<classes 77>+≡*
`class Suspension(LadokData):`
 `"""A suspension"""`
 `def __init__(self, /, **kwargs):`
 `super().__init__(**kwargs)`

```

self.__note = kwargs.pop("Anteckning")
self.__validity = (
    datetime.date.fromisoformat(kwargs["Giltighetsperiod"]["Startdatum"]),
    datetime.date.fromisoformat(kwargs["Giltighetsperiod"]["Slutdatum"])
)

@property
def note(self):
    """
    The note of the suspension. This is usually a case number.
    """
    return self.__note

@property
def validity(self):
    """
    A tuple (start, end) of the validity period of the suspension.
    """
    return self.__validity

@property
def is_current(self):
    """
    Is True if the suspension is currently valid.
    """
    return self.validity[0] <= datetime.date.today() <= self.validity[1]

def __str__(self):
    return f"{self.validity[0]}--{self.validity[1]}"

```

This code is used in chunk 73a.

We never cache this result since we always want the most up-to-date version.

100

<student attribute methods 95>+≡

```

@property
def suspensions(self):
    """
    The list of the students' suspensions.
    """
    suspensions = self.ladok.get_student_suspensions_JSON(
        self.ladok_id) ["Avstangning"]
    return [Suspension(**suspension) for suspension in suspensions]

```

This code is used in chunk 94a.

Chapter 13

Courses

We can use the course-related classes as follows.

```
1  #!/usr/bin/python3
2  # -*- coding: utf-8 -*-
3  # -*- mode: python; python-indent-offset: 4 -*-
4  import ladok3
5  import os
6
7  ladok = ladok3.LadokSession("KTH",
8                               vars={"username": os.environ["KTH_LOGIN"],
9                                       "password": os.environ["KTH_PASSWD"]},
10                               test_environment=True) # for experiments
11
12  course_rounds = ladok.search_course_rounds(code="DD1315")
13
14  for course_round in course_rounds:
15      print(f"{course_round.code} {course_round.start}--{course_round.end}")
16  print()
17
18  course_round = course_rounds[0]
19  print(f"{course_round.code} {course_round.start}--{course_round.end}")
20  print(f"round: {course_round.round_id}")
21  print(f"round code: {course_round.round_code}")
22  print(f"instance: {course_round.instance_id}")
23  print(f"education: {course_round.education_id}")
24  print(f"{course_round.code} components:")
25  for component in course_round.components():
26      print(f"{component.code}: {component.instance_id}")
```

13.1 Course rounds

We can search for courses like this. The result consists of a list of CourseRound objects.

```
101 <LadokSession data methods 88>+≡
    @cachetools.cachedmethod(
        operator.attrgetter("cache"),
        key=functools.partial(cachetools.keys.hashkey, "search_courses"))
```

```
def search_course_rounds(self, /, **kwargs):
    """Query LADOK about course rounds, possible keys:
    code, round_code, name
    """
    results = self.search_course_rounds_JSON(**kwargs)
    return [CourseRound(ladok=self, **result) for result in results]
```

This code is used in chunk 77.

The response consists of this JSON data:

```
1 {
2   "FinansieringsformID": 101050,
3   "Slutdatum": "2026-01-12",
4   "Startdatum": "2025-08-25",
5   "StudielokaliseringID": 135195,
6   "StudietaktID": 6,
7   "TillfallesKod": "50441",
8   "Uid": "c2e79045-b95c-11ef-9553-beecfac44351",
9   "UndervisningsformID": 1,
10  "Utbildningsinstans": {
11    "Avvecklad": false,
12    "Benamning": [
13      {
14        "Sprakkod": "sv",
15        "Text": "Programmeringsteknik"
16      },
17      {
18        "Sprakkod": "en",
19        "Text": "Programming Techniques"
20      }
21    ],
22    "Enhet": "HP",
23    "GallerUtbildningUtanAngivenOmfattning": false,
24    "Omfattning": 7.5,
25    "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
26    "ResultatPaKursVidAttesteringAvModul": false,
27    "Uid": "70d5fdb1-2db7-11ec-bb06-8c8c04c8482a",
28    "UtbildningUID": "70d5fdb9-2db7-11ec-bb06-8c8c04c8482a",
29    "Utbildningskod": "DD1317",
30    "Versionsnummer": 1
31  }
32 }
```

We have two classes that are relevant here, `CourseInstance` and `CourseRound`. The `CourseInstance` corresponds to the data in `Utbildningsinstans` above. And the `CourseRound` is the data ‘wrapping around’ that of the `CourseInstance`. Thus, we will make `CourseRound` a specialization of `CourseInstance`. This makes sense as it contains additional data, such as start and end date. This class takes care of those and then defers the rest to the `CourseInstance` class (by calling its constructor).

102 `<classes 77>+≡`

```
class CourseInstance(LadokRemoteData):
    """Represents a course instance. Must be constructed from at least
```

```

ladok (a LadokSession object),
UtbildningsinstansUID (an instance_id from LADOK),
optionally a data dictionary from LADOK"""
<CourseInstance methods 104a>

```

```

class CourseRound(CourseInstance):
    """Represents a course round"""
    def __init__(self, /, **kwargs):
        """
        Must be constructed from at least:
        Uid, TillfallesKod, Startdatum, Slutdatum
        """
        self.__round_id = kwargs.pop("Uid")
        self.__round_code = kwargs.pop("TillfallesKod")

        self.__start = datetime.date.fromisoformat(kwargs.pop("Startdatum"))
        self.__end = datetime.date.fromisoformat(kwargs.pop("Slutdatum"))

```

<prepare kwargs and call CourseInstance constructor 103>

```

@property
def round_id(self):
    return self.__round_id

@property
def round_code(self):
    return self.__round_code

@property
def start(self):
    return self.__start

@property
def end(self):
    return self.__end

```

<CourseRound data methods 110>

This code is used in chunk 73a.

The CourseInstance constructor expects only the Utbildningsinstans part of the data. However, the Uid should be renamed UtbildningsinstansUID. We must also pass on the ladok object.

```

103 <prepare kwargs and call CourseInstance constructor 103>≡
    instance_data = kwargs.pop("Utbildningsinstans")
    instance_data["UtbildningsinstansUID"] = instance_data.pop("Uid")
    super().__init__(ladok=kwargs.pop("ladok"), **instance_data)

```

This code is used in chunk 102.

13.2 Course instances

We have the course instance as the base class. This is essentially an ‘instance of a course syllabus’. We know from above that it inherits from `LadokRemoteData` and that it must be initialized with the keywords `ladok` (for its parent) and `UtbildningsinstansUID` (for itself) and optionally some data.

104a *<CourseInstance methods 104a>*≡

```
def __init__(self, /, **kwargs):
    self.__instance_id = kwargs.pop("UtbildningsinstansUID")
    super().__init__(**kwargs) # sets self.ladok
```

<CourseInstance constructor body 106a>

This definition is continued in chunks 106b and 107d.

This code is used in chunk 102.

We can fetch the data from LADOK as follows. Note that we need to use the `round_id` from the `CourseRound` object. This works since we never have a `CourseInstance` object on its own, it's always parent of a `CourseRound` object. (And that makes this kind of ugly from an OOP perspective.)

104b *<fetch CourseInstance data from LADOK 104b>*≡

```
data = self.ladok.course_round_components_JSON(self.round_id)
```

This code is used in chunk 106b.

Then data will be populated with the following values:

```
1 {
2   "AntalRegistrerade": 0,
3   "Benamning": {
4     "sv": "Programmeringsteknik och Matlab",
5     "en": "Programming Techniques and Matlab"
6   },
7   "BetygsskalaID": 131657,
8   "Enhet": "HP",
9   "GallerUtbildningUtanAngivenOmfattning": false,
10  "IngaendeMoment": [
11    {
12      "Benamning": {
13        "sv": "Laborationer",
14        "en": "Programming Assignments"
15      },
16      "BetygsskalaID": 131656,
17      "Enhet": "HP",
18      "GallerUtbildningUtanAngivenOmfattning": false,
19      "KravPaProjekttitel": false,
20      "Omfattning": 1.5,
21      "ResultatrapporteringMojlig": true,
22      "UtbildningUID": "38a66848-73d8-11e8-afa7-8e408e694e54",
23      "UtbildningsinstansUID": "38a6416f-73d8-11e8-b4e0-063f9afb40e3",
24      "Utbildningskod": "LAB1"
25    },
26    {
27      "Benamning": {
```

```

28     "sv": "Laborationer",
29     "en": "Programming Assignments"
30 },
31 "BetygsskalaID": 131656,
32 "Enhet": "HP",
33 "GallerUtbildningUtanAngivenOmfattning": false,
34 "KravPaProjekttitel": false,
35 "Omfattning": 1.5,
36 "ResultatrapporteringMojlig": true,
37 "UtbildningUID": "38a1d44d-73d8-11e8-afa7-8e408e694e54",
38 "UtbildningsinstansUID": "38a1867d-73d8-11e8-b4e0-063f9afb40e3",
39 "Utbildningskod": "LAB2"
40 },
41 {
42     "Benamning": {
43         "sv": "Laborationer",
44         "en": "Programming Assignments"
45     },
46     "BetygsskalaID": 131657,
47     "Enhet": "HP",
48     "GallerUtbildningUtanAngivenOmfattning": false,
49     "KravPaProjekttitel": false,
50     "Omfattning": 3.0,
51     "ResultatrapporteringMojlig": true,
52     "UtbildningUID": "389b1e62-73d8-11e8-afa7-8e408e694e54",
53     "UtbildningsinstansUID": "389b1dda-73d8-11e8-b4e0-063f9afb40e3",
54     "Utbildningskod": "LAB3"
55 },
56 {
57     "Benamning": {
58         "sv": "Laborationer",
59         "en": "Programming Assignments"
60     },
61     "BetygsskalaID": 131656,
62     "Enhet": "HP",
63     "GallerUtbildningUtanAngivenOmfattning": false,
64     "KravPaProjekttitel": false,
65     "Omfattning": 1.5,
66     "ResultatrapporteringMojlig": true,
67     "UtbildningUID": "387c99a9-73d8-11e8-afa7-8e408e694e54",
68     "UtbildningsinstansUID": "387c7248-73d8-11e8-b4e0-063f9afb40e3",
69     "Utbildningskod": "MAT1"
70 }
71 ],
72 "KravPaProjekttitel": false,
73 "Kurstillfalleskod": "51872",
74 "Omfattning": 7.5,
75 "ResultatrapporteringMojlig": true,
76 "Slutdatum": "2022-01-17 ",
77 "Startdatum": "2021-08-30 ",
78 "Studietaktsbenamning": {

```



```

79     "sv": "Kvartsfart",
80     "en": "One-quarter-time"
81 },
82     "Takt": 25,
83     "Undervisningsformbenamning": {
84         "sv": "Normal",
85         "en": "Normal teaching"
86     },
87     "UtbildningUID": "38ab2393-73d8-11e8-afa7-8e408e694e54",
88     "UtbildningsinstansUID": "9f30cc02-d6b5-11e8-8fd5-cf9d2c5c41ba",
89     "Utbildningskod": "DD1315",
90     "Versionsnummer": 2
91 }

```

Now that we have all data in `data`, we can assign its values to the private attributes. We note, however, that some course instances lack both `Versionsnummer` and `Omfattning`. It seems like faux courses are created to document when students go on Exchanges. These faux courses have a name and code, but no credits or version of syllabus. Consequently they don't have any grading scales either.

Our approach will be to try to assign the attributes using `kwargs`, and if that fails, we will fetch the data (pull from LADOK). If that pull fails with missing data, then we will assume that it's one of these faux courses.

106a *<CourseInstance constructor body 106a>≡*

```

try:
    self.__assign_attr(kwargs)
except:
    self.__pull_attributes()

```

This code is used in chunk 104a.

106b *<CourseInstance methods 104a>+=*

```

def __assign_attr(self, data):
    <assign CourseInstance data to private attributes 107b>

```

```

def __pull_attributes(self):
    <fetch CourseInstance data from LADOK 104b>
    try:
        self.__assign_attr(data)
    except:
        self.__assign_faux(data)

```

```

def pull(self):
    self.__pull_attributes()

```

```

def __assign_faux(self, data):
    <assign faux CourseInstance data to private attributes 107c>

```

This code is used in chunk 102.

By trial-and-error, it seems like the faux courses has none of the attributes that the real courses have. However, we try our best.

107a *<assign common CourseInstance data to private attributes 107a>≡*
`self.__components = []`
<add course components to self.__components 108a>

This code is used in chunk **107**.

107b *<assign CourseInstance data to private attributes 107b>≡*
<assign common CourseInstance data to private attributes 107a>

```
self.__name = data.pop("Benamning")
self.__code = data.pop("Utbildningskod")

self.__credits = data.pop("Omfattning")
self.__unit = data.pop("Enhet")

self.__version = data.pop("Versionsnummer")

self.__education_id = data.pop("UtbildningUID")

self.__grade_scale = self.ladok.get_grade_scales(
    id=data.pop("BetygsskalaID"))
```

This code is used in chunk **106b**.

107c *<assign faux CourseInstance data to private attributes 107c>≡*
<assign common CourseInstance data to private attributes 107a>

```
self.__name = data.pop("Benamning", None)
self.__code = data.pop("Utbildningskod", None)

self.__credits = data.pop("Omfattning", None)
self.__unit = data.pop("Enhet", None)

self.__version = data.pop("Versionsnummer", None)

self.__education_id = data.pop("UtbildningUID", None)

try:
    self.__grade_scale = self.ladok.get_grade_scales(
        id=data.pop("BetygsskalaID"))
except KeyError:
    self.__grade_scale = None
```

This code is used in chunk **106b**.

Finally, we want to have properties to access the private attributes.

107d *<CourseInstance methods 104a>+≡*
`@property`
`def instance_id(self):`
 `return self.__instance_id`
`@property`

```

def education_id(self):
    return self.__education_id

@property
def code(self):
    return self.__code

@property
def name(self):
    return self.__name["en"]

@property
def version(self):
    return self.__version

@property
def grade_scale(self):
    return self.__grade_scale

@property
def credits(self):
    return self.__credits

@property
def unit(self):
    return self.__unit

def components(self, /, **kwargs):
    """Returns the list of components, filtered on keywords"""
    return filter_on_keys(self.__components, **kwargs)

```

This code is used in chunk 102.

13.2.1 Course components

We need to add the courses components to the course instance. That is things like LAB1 or EXA1 that make up the course in LADOK.

```

108a <add course components to self.__components 108a>≡
    if "IngaendeMoment" in data:
        self.__components += [CourseComponent(
            ladok=self.ladok, course=self,
            **component) for component in data["IngaendeMoment"]]

```

This definition is continued in chunk 108b.

This code is used in chunk 107a.

We also add the course itself as a component. This is to handle the grade on the course itself. Once all the components have a grade, the course itself will get a grade. This component represents that grade. It will get the course code as its code.

```

108b <add course components to self.__components 108a>+=
    try:
        course_component_data = data.copy()

```

```

course_component_data["ladok"] = self.ladok
self.__components.append(CourseComponent(course=self,
                                         **course_component_data))

except KeyError:
    pass

```

This code is used in chunk 107a.

13.3 Course components

The CourseComponent class will make the attributes available. We specify the most interesting ones and let the LadokData constructor turn the rest into properties as well, so that they are available for the curious.

Turns out that some course components don't have any credits. This is probably a consequence of being a component in a course with no credits, e.g., one of those faux courses to register exchange studies.

```

109 <classes 77>+=
class CourseComponent(LadokData):
    """Represents a course component of a course registration"""
    def __init__(self, /, **kwargs):
        super().__init__(**kwargs)

        self.__course = kwargs.pop("course")

        if "UtbildningsinstansUID" in kwargs:
            self.__instance_id = kwargs.pop("UtbildningsinstansUID")
        else:
            self.__instance_id = kwargs.pop("Uid")

        self.__education_id = kwargs.pop("UtbildningUID")

        self.__code = kwargs.pop("Utbildningskod")
        description = kwargs.pop("Benamning")
        if isinstance(description, dict):
            self.__description = description["sv"]
        else:
            self.__description = description

        self.__credits = kwargs.pop("Omfattning", None)
        self.__unit = kwargs.pop("Enhet", None)

        ladok = kwargs.pop("ladok")
        grade_scale_id = kwargs.pop("BetygsskalaID")
        self.__grade_scale = ladok.get_grade_scales(id=grade_scale_id)[0]

    @property
    def course(self):
        return self.__course

    @property

```

```

def instance_id(self):
    return self.__instance_id

@property
def education_id(self):
    return self.__education_id

@property
def code(self):
    """Returns the name of the component (as in syllabus)"""
    return self.__code

@property
def description(self):
    """Returns description of component (as in syllabus)"""
    return self.__description

@property
def unit(self):
    """Returns the unit for the credits"""
    return self.__unit

@property
def credits(self):
    """Returns the number of credits"""
    return self.__credits

@property
def grade_scale(self):
    return self.__grade_scale

def __str__(self):
    return self.code

def __eq__(self, other):
    if isinstance(other, str):
        return self.code == other
    return self.__dict__ == other.__dict__

```

This code is used in chunk [73a](#).

We have the latter method, `__eq__`, so that we can filter on keys and compare with strings.

13.4 Results for a course round

We can access the results of all the students during a course round. We do this through the method `results`, which takes keyword arguments to possibly filter the results.

110 `<CourseRound data methods 110>≡`
`def results(self, /, **kwargs):`

```

    """Returns all students' results on the course"""
    try:
        self.__results
    except:
        self.__fetch_results()

    return filter_on_keys(self.__results, **kwargs)

```

This definition is continued in chunk 111.

This code is used in chunk 102.

To fetch the results from LADOK, we must do the following query.

111a `<CourseRound data methods 110>+≡`

```

def __fetch_results(self):
    raise NotImplementedError(
        f"{type(self).__name__}.__fetch_results not implemented")

```

This code is used in chunk 102.

13.5 Participants for a course round

We want to get a list of participants for a course round, i.e., a list of Student objects.

111b `<CourseRound data methods 110>+≡`

```

def participants(self, /, **kwargs):
    """Returns a Student object for each participant in the course."""
    try:
        self.__participants
    except:
        self.__fetch_participants()

    return filter_on_keys(self.__participants, **kwargs)

```

This code is used in chunk 102.

When we fetch the participants, we don't create new Student objects. We use the `get_student` method of the LADOK session object to fetch objects from the cache if they already exist.

111c `<CourseRound data methods 110>+≡`

```

def __fetch_participants(self):
    self.__participants = []
    for student in self.ladok.participants_JSON(self.round_id):
        self.__participants.append(
            self.ladok.get_student(student["Student"]["Uid"]))

```

This code is used in chunk 102.

Chapter 14

Course objects related to students

14.1 Course registrations and a student's results

Students register for a course. The `CourseRegistration` class represents this data from LADOK. This is the object that must be used to get results for a student. This object keeps more info than the course instance.

We note that some registrations lack the 'Utbildningstillfalleskod' attribute. This happens on 'custom courses' like Erasmus exchanges. If that's the case, we use the value `None` in its place.

```
112 <classes 77>+≡
class CourseRegistration(CourseInstance):
    """Represents a student's participation in a course instance"""
    def __init__(self, /, **kwargs):
        self.__student = kwargs.pop("student")

        # ett Ladok-ID för kursomgången
        self.__round_id = kwargs.pop("UtbildningstillfalleUID")
        self.__round_code = kwargs.pop("Utbildningstillfalleskod", None)

        dates = kwargs.pop("Studieperiod")
        self.__start = datetime.date.fromisoformat(dates["Startdatum"])
        self.__end = datetime.date.fromisoformat(dates["Slutdatum"])

        super().__init__(**kwargs)

    @property
    def round_id(self):
        """Returns LADOK ID for the course round (kursomgång)"""
        return self.__round_id

    @property
    def round_code(self):
        """Returns the human-readable round code (tillfälleskod)"""
        return self.__round_code

    @property
```

```

def start(self):
    return self.__start

@property
def end(self):
    return self.__end

def __str__(self):
    return f"{self.code} {self.round_code or ''} ({self.start}--{self.end})"

def __repr__(self):
    return f"{self.code}:{self.round_code or ''}:{self.start}--{self.end}"

def results(self, /, **kwargs):
    """Returns the student's results on the course, filtered on keywords"""
    try:
        return filter_on_keys(self.__results, **kwargs)
    except:
        self.__fill_results()
    return filter_on_keys(self.__results, **kwargs)

def __fill_results(self):
    """Helper method to fetch results from LADOK"""
    <pull existing CourseResult objects from LADOK 113>
    <add new CourseResult objects for missing components 114b>

def push(self):
    """Pushes any new results"""
    for result in self.results():
        result.push()

```

This code is used in chunk 73a.

We can pull these from LADOK as well. We construct `CourseResult` objects using a `CourseRegistration` object. From the response we get from LADOK, we construct `CourseResult` objects that deal with the details. (It's a bit unclear why `Kursversioner` is a list, so far it has always worked to take the first.)

```

113 <pull existing CourseResult objects from LADOK 113>≡
    response = self.ladok.student_results_JSON(
        self.__student.ladok_id, self.education_id
    )["Kursversioner"][0]

    self.__results = []

    for result in response["VersionensModuler"]:
        try:
            self.__results.append(CourseResult(ladok=self.ladok,
                                                components=self.components(),
                                                student=self.__student,
                                                **result))

        except TypeError:

```


pass

This definition is continued in chunk 114a.

This code is used in chunk 112.

As with the components, the course grade itself is a special case. That data is not in `VersionensModuler`, but in `VersionensKurs`. But we can do the same with it, just as we could with the components. (And this works since it's a component in `self.components()`.)

```
114a <pull existing CourseResult objects from LADOK 113>+=
    try:
        self.__results.append(CourseResult(ladok=self.ladok,
                                           components=self.components(),
                                           student=self.__student,
                                           **response["VersionensKurs"]))

    except TypeError:
        pass
```

This code is used in chunk 112.

Now we can see which components from `self.components` are missing from `self.__results` and just add empty results for those.

```
114b <add new CourseResult objects for missing components 114b>=
    for component in self.components():
        if not list(filter_on_keys(self.__results, component=component.code)):
            self.__results.append(
                CourseResult(
                    ladok=self.ladok,
                    component=component,
                    student=self.__student))
```

This code is used in chunk 112.

14.2 Course results

The `CourseResult` objects have the following form. We have two cases: the result exists in LADOK and the result doesn't exist in LADOK. The difference is in how results are pushed to LADOK, i.e., the implementation of the push method.

```
114c <classes 77>+=
class CourseResult(LadokRemoteData):
    """Represents a result on a course module"""
    def __init__(self, /, **kwargs):
        """To construct this object we must give existing data, i.e.
        Arbetsunderlag or SenastAttesteradeResultat directly from LADOK."""
        super().__init__(**kwargs)

        self.__student = kwargs.pop("student")

        self.__attested = False
        self.__finalized = False
        if "component" in kwargs:
            self.__component = kwargs.pop("component")
            self.__populate_attributes()
```

```

elif "components" in kwargs and "ResultatPaUtbildning" in kwargs:
    components = kwargs.pop("components")

    results = kwargs.pop("ResultatPaUtbildning")

    if "Arbetsunderlag" in results:
        data = results["Arbetsunderlag"]
    elif "SenastAttesteradeResultat" in results:
        self.__attested = True
        self.__finalized = True
        data = results["SenastAttesteradeResultat"]
    else:
        data = kwargs

    self.__populate_attributes(**data, components=components)
else:
    raise TypeError("not enough keys given to construct object")

def __populate_attributes(self, /, **data):
    if not data:
        <populate CourseResult attributes for empty result 117b>
    else:
        <populate CourseResult attributes from data 117a>

@property
def component(self):
    """Returns the component the results is for"""
    return self.__component

@property
def grade_scale(self):
    """Returns the grade scale for the component"""
    return self.__grade_scale

@property
def grade(self):
    """Returns the grade set for the component"""
    return self.__grade

def set_grade(self, grade, date):
    """Sets a new grade and date for the component"""
    if self.attested:
        raise AttributeError("can't change already attested grade")
    if self.finalized:
        raise AttributeError("can't change finalized grade without "
                              "un-finalizing first")

    <set the grade for CourseResult 118a>

    self.__modified = True

```

```

    self.push()

def finalize(self, graders=[], notify=False):
    """Finalizes the set grade"""
    if self.modified:
        self.push()

    <finalize the grade for CourseResult 119b>

@property
def modified(self):
    """Returns True if there are unpushed changes"""
    return self.__modified

@property
def date(self):
    """Returns the date of the grade"""
    return self.__date

@property
def attested(self):
    """Returns True if the grade has been attested in LADOK"""
    return self.__attested

@property
def finalized(self):
    """Returns True if the grade has been finalized (klarmarkerad) in LADOK"""
    try:
        return self.__finalized
    except AttributeError: # can occur with an old cache
        return self.__attested

def __str__(self):
    return f"{self.component} {self.grade} " \
        f"{self.date}{'*' if not self.attested else ''}"

def push(self):
    if self.__uid:
        <push the existing CourseResult grade data to LADOK 118b>
    else:
        <push the new CourseResult grade data to LADOK 119a>
    self.__modified = False

```

This code is used in chunk 73a.

If we get the data from LADOK, then we can fill in all the attributes. We also need to check if the result has been finalized (klarmarkerad). LADOK uses `ProcessStatus` to indicate the state of a result:

1 Draft (Utkast) — can be modified and finalized.

2 Finalized (Klarmarkerad) — ready for examiner attestation, cannot be finalized again.

An attested result has no ProcessStatus since it's stored in SenastAttesteradeResultat rather than Arbetsunderlag.

```
117a <populate CourseResult attributes from data 117a>≡
    self.__uid = data.pop("Uid", None)
    self.__instance_id = data.pop("UtbildningsinstansUID")
    self.__results_id = data.pop("ResultatUID", None)
    self.__study_results_id = data.pop("StudieresultatUID", None)

    process_status = data.pop("ProcessStatus", None)
    if process_status == 2:
        self.__finalized = True

    try:
        grade = data.pop("Betygsgrad", None)
        grade_scale_id = data.pop("BetygsskalaID")
    except KeyError:
        grade_scale_id = int(data["Betygsskala"] ["ID"])

    self.__date = data.pop("Examinationsdatum", None)
    self.__grade_scale = self.ladok.get_grade_scales(id=grade_scale_id)[0]
    if grade:
        self.__grade = self.__grade_scale.grades(id=grade)[0]
    else:
        self.__grade = None

    if "components" in data:
        components = data.pop("components")
        component_list = filter_on_keys(components, instance_id=self.__instance_id)
        self.__component = component_list[0] if component_list \
            else None

    self.__last_modified = data.pop("SenasteResultatandring", None)
    self.__modified = False
```

This code is used in chunk 114c.

However, if this is a completely new result, it doesn't exist in LADOK. Then we lack quite a few of the attributes. A new result is neither finalized nor attested.

```
117b <populate CourseResult attributes for empty result 117b>≡
    self.__uid = None
    self.__instance_id = self.__component.instance_id

    self.__date = None
    self.__grade_scale = self.__component.grade_scale
    self.__grade = None

    self.__finalized = False
    self.__modified = False
```

```
self.__last_modified = None
```

This code is used in chunk 114c.

14.2.1 Setting the grade

We can accept the grade either as a grade object or as a string. We must check both values for correctness before we update either of the attributes — otherwise we might end up in an inconsistent state.

```
118a <set the grade for CourseResult 118a>≡
    if isinstance(grade, Grade) and grade not in self.grade_scale.grades():
        raise TypeError(f"The grade {grade} is not in"
            f"the scale {self.grade_scale.code}")
    elif isinstance(grade, str):
        try:
            grade = self.grade_scale.grades(code=grade)[0]
        except:
            raise TypeError(
                f"The grade {grade} is not in the scale {self.grade_scale.code}")
    else:
        raise TypeError(f"Can't use type {type(grade)} for grade")

    if isinstance(date, str):
        date = datetime.date.fromisoformat(date)
    elif not isinstance(date, datetime.date):
        raise TypeError(f"Type {type(date)} not supported for date")

    self.__grade = grade
    self.__date = date
```

This code is used in chunk 114c.

14.2.2 Working with existing results

To push an updated result to LADOK, we do the following.

```
118b <push the existing CourseResult grade data to LADOK 118b>≡
    try:
        response = self.ladok.update_result_JSON(
            self.__uid, self.grade.id, self.date.isoformat(), self.__last_modified
        )
    except Exception as err:
        raise LadokError(
            f"couldn't update {self.component.code} to {self.grade} ({self.date})"
            f" to LADOK: {err}"
        )

    self.__populate_attributes(**response)
```

This code is used in chunk 114c.

14.2.3 Adding new results

We treat new results differently. Since we don't update an already existing item, we must add a new result to LADOK. Particularly, we must add something to the student's study results.

```
119a <push the new CourseResult grade data to LADOK 119a>≡
try:
    response = self.ladok.create_result_JSON(
        self.__student.ladok_id,
        self.__component.course.instance_id,
        self.__component.instance_id,
        self.grade.id, self.date.isoformat()
    )
except Exception as err:
    raise LadokError("Couldn't register "
        f"{self.component} {self.grade} {self.date}: {err}")

self.__populate_attributes(**response)
```

This code is used in chunk 114c.

14.2.4 Finalizing a result

When we finalize the result, we must know who reported the result.

```
119b <finalize the grade for CourseResult 119b>≡
reporter_id = self.ladok.user_info_JSON()["AnvandareUID"]

if notify:
    response = self.ladok.finalize_result_JSON(
        self.__results_id, self.__last_modified, reporter_id, reporter_id,
        others=graders
    )
else:
    response = self.ladok.finalize_result_JSON(
        self.__results_id, self.__last_modified, reporter_id,
        others=graders
    )

self.__populate_attributes(**response)
```

This code is used in chunk 114c.

Part IV

API calls

Chapter 15

Overview of helper functions and methods

We will now document some possible API calls to LADOK. We also document the tests of these functions to illustrate their use.

15.1 Example outputs and test code for the API

We will provide both example outputs and test code. The test code is the test cases we want to be able to run with `pytest` later. We will design the test functions in such a way that we can reuse them to show the example outputs from the API requests.

We will use the following to test the API methods.

```
121 <test api.py 121>≡
import json
import ladok3
import ladok3.cli
import os
from test_ladok3 import ladok

student_uid = "de709f81-a867-11e7-8dbf-78e86dc2470c"
dasak_instance_id = "39c56d6a-73d8-11e8-b4e0-063f9afb40e3"
dasak_education_id = "39cf7fb4-73d8-11e8-afa7-8e408e694e54"
dasak_round_id = "79a8cb1b-73da-11e8-b4e0-063f9afb40e3"
LAB1_uid = "39ca27fe-73d8-11e8-afa7-8e408e694e54"
LAB1_instance_id = "39ca2861-73d8-11e8-b4e0-063f9afb40e3"
KTH_org_id = "2474f616-dc41-11e8-8cc1-eaeeb71b497f"
```

<test functions 126a>

Root chunk (not used in this document).

We will then add `test_X()` functions in the <test functions 126a> code block that will perform the tests. These test functions will also show how to use the functions. Also we will include example output from the function calls in the tests. This is useful for development and when LADOK changes anything in the API.

15.2 Exception classes

LADOK operations can fail in various ways, and it's important to handle these failures gracefully with meaningful error messages. To provide better error handling and debugging capabilities, we define a hierarchy of custom exception classes that represent different types of errors that can occur when working with the LADOK API.

All custom exceptions inherit from a base `LadokError` class, which in turn inherits from Python's built-in `Exception` class. This ensures backward compatibility while providing enhanced error handling capabilities.

15.2.1 Exception class hierarchy

The exception hierarchy is designed to allow applications to catch specific types of errors while still maintaining the ability to catch all LADOK-related errors with a single exception handler.

LadokError Base exception class for all LADOK-related errors.

LadokServerError For server-side LADOK errors (uses `response.json()["Meddelande"]`).

LadokValidationError For data validation errors (invalid person numbers, grades, etc.).

LadokAPIError For API/HTTP related errors (network failures, unexpected responses).

LadokNotFoundError For resource not found errors (missing courses, components, etc.).

Usage example:

```

1  import ladok3
2  import ladok3.cli
3
4  try:
5      session = ladok3.LadokSession(**ladok3.cli.load_credentials(),
6                                     test_environment=True)
7      student = session.get_student("invalid-person-nr")
8  except ladok3.LadokValidationError as e:
9      print(f"Invalid data provided: {e}")
10 except ladok3.LadokServerError as e:
11     print(f"LADOK server returned error: {e}")
12 except ladok3.LadokAPIError as e:
13     print(f"Network/API failure: {e}")
14 except ladok3.LadokError as e:
15     print(f"General LADOK error: {e}")

```

This example should yield at least a validation error, since we supply an invalid personnummer to `.get_student`.

15.2.2 Exception class definitions

The exception classes are defined as follows:

123

```
<classes 123>≡
class LadokError(Exception):
    """
    Base exception class for all LADOK-related errors.

    This is the parent class for all LADOK-specific exceptions. It can be used
    to catch any LADOK-related error in a single exception handler while still
    allowing more specific error handling when needed.

    All other LADOK exception classes inherit from this class, ensuring
    backward compatibility with existing code that catches generic exceptions.
    """
    pass

class LadokServerError(LadokError):
    """
    Exception for server-side LADOK errors.

    This exception is raised when the LADOK server returns an error response,
    typically containing an error message in the response JSON under the
    "Meddelande" key. This indicates that the request reached the server
    successfully, but the server was unable to process it due to business
    logic constraints or data validation issues on the server side.

    Examples:
    - Attempting to register a grade for a student not enrolled in the course
    - Trying to access data that the authenticated user doesn't have permission to view
    - Server-side validation failures
    """
    pass

class LadokValidationError(LadokError):
    """
    Exception for data validation errors.

    This exception is raised when input data fails validation before being
    sent to the LADOK API. This includes format validation, business rule
    validation, and other client-side checks that can be performed without
    contacting the server.

    Examples:
    - Invalid Swedish personal numbers (personnummer)
    - Invalid grade values for a specific grading scale
    - Missing required fields
    - Date format errors
    """
    pass
```

```

class LadokAPIError(LadokError):
    """
    Exception for API/HTTP related errors.

    This exception is raised when there are problems with the HTTP communication
    to the LADOK API or when the API returns unexpected responses. This includes
    network connectivity issues, HTTP protocol errors, and malformed responses.

    Examples:
    - Network connectivity failures
    - HTTP status codes indicating client or server errors
    - Malformed JSON responses
    - Authentication failures
    - Timeouts
    """
    pass

class LadokNotFoundError(LadokError):
    """
    Exception for resource not found errors.

    This exception is raised when a requested resource cannot be found in LADOK.
    This is typically used for HTTP 404 responses or when searching for entities
    that don't exist.

    Examples:
    - Course instances that don't exist
    - Students not found in the system
    - Course components that are not part of a course
    - Non-existent course rounds
    """
    pass

```

Root chunk (not used in this document).

15.3 HTTP queries to LADOK

We will make all queries to LADOK over HTTP as they provide a REST API. This means that we must keep track of some headers and whether we use the test or production system.

15.3.1 Data about the LADOK session

The data that we must keep track of is which URL to use, i.e., which system to access: the production system or test system. To run against the test environment, change the base URL to

<https://start.test.ladok.se>¹

¹According to <https://ladok.se/drift-och-support/produktionsmiljo-for-nya-ladok>.

```

125a <LadokSession constructor body 125a>≡
    self.base_url = "https://start.ladok.se" if not test_environment \
                                     else "https://start.test.ladok.se"

    self.base_gui_url = self.base_url + "/gui"
    self.base_gui_proxy_url = self.base_gui_url + "/proxy"

```

This definition is continued in chunks 125b and 130a.

Root chunk (not used in this document).

We also set the headers that we will accept.

```

125b <LadokSession constructor body 125a>+≡
    self.headers = { 'Accept' : 'application/vnd.ladok-resultat+json, \
application/vnd.ladok-kataloginformation+json, \
application/vnd.ladok-studentinformation+json, \
application/vnd.ladok-studiedeltagande+json, \
application/vnd.ladok-utbildningsinformation+json, \
application/vnd.ladok-examen+json, \
application/vnd.ladok-extintegration+json, \
application/vnd.ladok-uppfoljning+json, \
application/vnd.ladok-extra+json, \
application/json, \
text/plain'}

```

15.3.2 GET, PUT and POST queries

To make things easier, we will add four methods: `get_query`, `put_query`, `post_query` and `del_query`, which are shortcuts to make GET, PUT, POST and DEL queries to LADOK.

We note that we must record the time of the last GET request to track the freshness of the XSRF token. The other requests track that by the use of the XSRF token itself. We'll get back to this in Section 15.3.3.

A successful HTTP status does not guarantee that we actually received LADOK JSON. When an authenticated session expires, LADOK may redirect us to an HTML login page and still finish with 200 OK. If we were to call `response.json()` unconditionally in that situation, the user would only see a low-level decoding failure. We therefore decode successful responses through a small helper that raises `LadokAPIError` with the final URL and content type when the body is not JSON.

```

125c <functions 125c>≡
def response_json_or_error(response, path, method):
    """Return JSON from [[response]] or raise contextual [[LadokAPIError]]."""
    try:
        return response.json()
    except ValueError as err:
        content_type = response.headers.get("content-type", "<missing>")
        body = " ".join(response.text.split())
        if len(body) > 120:
            body = body[:117] + "..."
        raise LadokAPIError(
            f"{method} request to {path} returned non-JSON response "
            f"from {response.url} (Content-Type: {content_type}): {body}") from err

```

This definition is continued in chunks 130 and 131.

Root chunk (not used in this document).

Let's verify the improved error reporting with a synthetic HTML login page. The helper should raise `LadokAPIError` rather than leaking a bare JSON decoding exception.

```
126a <test functions 126a>≡
def test_response_json_or_error_reports_html_login_pages():
    class Response:
        url = "https://start.ladok.se/gui/loggain"
        headers = {"content-type": "text/html; charset=UTF-8"}
        text = "<html><title>Ladok - start</title></html>"

        def json(self):
            raise ValueError("not json")

    try:
        ladok3.response_json_or_error(Response(), "/studentinformation", "GET")
    except ladok3.LadokAPIError as err:
        assert "non-JSON response" in str(err)
        assert "text/html; charset=UTF-8" in str(err)
        assert "https://start.ladok.se/gui/loggain" in str(err)
    else:
        assert False
```

This definition is continued in chunks [132b](#), [152–55](#), [342b](#), [346b](#), [362b](#), [366](#), [367b](#), [369](#), [412](#), [413b](#), [415](#), [417](#), [420](#), [423](#), [425](#), [433](#), [435–39](#), [441–44](#), [446b](#), [458b](#), [542b](#), [544](#), [551b](#), [673](#), [764b](#), [839b](#), [893b](#), [895b](#), [899b](#), [901b](#), [1030b](#), [1032b](#), [1075b](#), [1105b](#), [1133](#), [1140](#), [1141b](#), [1147b](#), [1151](#), [1164b](#), [1180](#), [1309](#), [1313b](#), and [1314b](#).

This code is used in chunk [121](#).

```
126b <LadokSession data methods 126b>≡
def get_query(self, path,
              content_type="application/vnd.ladok-resultat+json"):
    """
    Make GET query to LADOK server and return JSON data.

    Args:
        path: API endpoint path
        content_type: HTTP Content-Type header value

    Returns:
        JSON data from the response

    Raises:
        LadokServerError: If the server returns an error message
        LadokAPIError: If the request fails or returns an error status
    """
    headers = self.headers.copy()
    headers["Content-Type"] = content_type

    <record time of request 130b>

    response = self.session.get(
```

```

        url=self.base_gui_proxy_url + path,
        headers=headers)

    if response.ok:
        return response_json_or_error(response, path, "GET")
    try:
        error_msg = response.json()["Meddelande"]
        raise LadokServerError(error_msg)
    except:
        error_msg = response.text
        raise LadokAPIError(f"GET request to {path} failed: {error_msg}")

def put_query(self, path, put_data,
              content_type="application/vnd.ladok-resultat+json"):
    """
    Make PUT query to LADOK server and return JSON data.

    Args:
        path: API endpoint path
        put_data: Data to send in request body
        content_type: HTTP Content-Type header value

    Returns:
        JSON data from the response

    Raises:
        LadokServerError: If the server returns an error message
        LadokAPIError: If the request fails or returns an error status
    """
    headers = self.headers.copy()
    headers["Content-Type"] = content_type
    headers["X-XSRF-TOKEN"] = self.xsrf_token
    headers["Referer"] = self.base_gui_url

    response = self.session.put(
        url=self.base_gui_proxy_url + path,
        json=put_data,
        headers=headers)

    if response.ok:
        return response_json_or_error(response, path, "PUT")
    try:
        error_msg = response.json()["Meddelande"]
        raise LadokServerError(error_msg)
    except:
        error_msg = response.text
        raise LadokAPIError(f"PUT request to {path} failed: {error_msg}")

def post_query(self, path, post_data,
               content_type="application/vnd.ladok-resultat+json"):

```

```

"""
Make POST query to LADOK server and return JSON data.

Args:
    path: API endpoint path
    post_data: Data to send in request body
    content_type: HTTP Content-Type header value

Returns:
    JSON data from the response

Raises:
    LadokServerError: If the server returns an error message
    LadokAPIError: If the request fails or returns an error status
"""
headers = self.headers.copy()
headers["Content-Type"] = content_type
headers["X-XSRF-TOKEN"] = self.xsrf_token
headers["Referer"] = self.base_gui_url

response = self.session.post(
    url=self.base_gui_proxy_url + path,
    json=post_data,
    headers=headers)

if response.ok:
    return response_json_or_error(response, path, "POST")
try:
    error_msg = response.json()["Meddelande"]
    raise LadokServerError(error_msg)
except:
    error_msg = response.text
    raise LadokAPIError(f"POST request to {path} failed: {error_msg}")

def del_query(self, path):
    """
    Returns DELETE query response for path on the LADOK server.

    Args:
        path (str): API endpoint path

    Returns:
        True, if success but no content is returned.
        JSON data from the response, if any.
        Otherwise the response object.

    Raises:
        LadokServerError: If the server returns an error message
        LadokAPIError: If the request fails or returns an error status
    """

```

```

headers = self.headers.copy()
headers["X-XSRF-TOKEN"] = self.xsrf_token

response = self.session.delete(url=self.base_gui_proxy_url+path,
                               headers=headers)

if response.status_code == requests.codes.no_content:
    return True
if response.ok:
    try:
        return response.json()
    except:
        return response
try:
    error_msg = response.json()["Meddelande"]
    raise LadokServerError(error_msg)
except:
    error_msg = response.text
    raise LadokAPIError(f"DELETE request to {path} failed: {error_msg}")

```

This definition is continued in chunks [129](#), [132a](#), [151–55](#), [342a](#), [346a](#), [362a](#), [365](#), [367a](#), [368](#), [411](#), [413a](#), [414](#), [416](#), [419](#), [422](#), [424](#), [432](#), [434](#), [436–40](#), [442](#), [443](#), [446a](#), [458a](#), [542a](#), [543](#), [551a](#), [672](#), [764a](#), [839a](#), [893a](#), [895a](#), [899a](#), [901a](#), [1030a](#), [1032a](#), [1075a](#), [1105a](#), [1132](#), [1139](#), [1141a](#), [1147a](#), [1150](#), [1164a](#), [1179](#), [1308](#), [1313a](#), and [1314a](#).

Root chunk (not used in this document).

15.3.3 The XSRF token

We note that the PUT, POST and DEL queries require an XSRF token. They all get it through `self.xsrf_token`. We provide a property for that. LADOK sets the XSRF token when we make our first request. If we haven't made any request, we don't have one. Also, if too long time passes between requests, the existing XSRF token will be invalidated by LADOK.

[129](#) *<LadokSession data methods 126b>+≡*

```

@property
def xsrf_token(self):
    """
    Get a fresh XSRF token for authenticated requests.

```

LADOK requires XSRF tokens for PUT, POST, and DELETE requests. This property ensures the token is fresh and valid, triggering a re-login if necessary.

```

Returns:
    str: A valid XSRF token for use in authenticated requests.
    """
<ensure the XSRF token is fresh 130c>

```

```

cookies = self.session.cookies.get_dict()
return cookies["XSRF-TOKEN"]

```


Now, we must ensure there is a fresh XSRF token. There are two cases:

- (1) If we don't have an XSRF token, this means that we must log in to get one. Since we use `weblogin`, we'll simply perform a GET request, i.e., one that doesn't require an XSRF token.
- (2) If we have one, it might be expired due to a timeout. In this case, we must log in again to get a new one.

This means that we want to keep track of when the last request happened, so we can determine if our XSRF token is fresh or not.

```
130a <LadokSession constructor body 125a>+≡
    self.__access_time = None
    self.__timeout = datetime.timedelta(minutes=15)
```

```
130b <record time of request 130b>≡
    self.__access_time = datetime.datetime.now()
```

This code is used in chunks 126b and 130c.

We note here that we assume that whenever the XSRF token is requested, a PUT, POST or DEL request will soon follow. Hence, we can update the time of the last request whenever the XSRF token is read.

```
130c <ensure the XSRF token is fresh 130c>≡
    if (not self.__access_time
        or datetime.datetime.now()-self.__access_time > self.__timeout):
        self.user_info_JSON() # trigger login
    else:
        <record time of request 130b>
```

This code is used in chunk 129.

15.4 Cleaning data for printing

We sometimes want to print the data, for instance, example output in this document. For this reason we introduce some cleaning functions. These recursively transcends the JSON structure removing the data that should be removed.

```
130d <functions 125c>+≡
    def clean_data(json_obj):
        """
        Clean a JSON object by removing internal links and pseudonymizing personal data.

        Args:
            json_obj (dict or list): The JSON data to clean.

        Returns:
            dict or list: The cleaned JSON object.
        """
        remove_links(json_obj)
        pseudonymize(json_obj)
        return json_obj
```

The `remove_links` function removes the link key-value pairs. The link values contains URLs for all requests that data are based on.

131a `<functions 125c>+≡`

```
def remove_links(json_obj):
    """
    Recursively removes all "link" keys and values
    """
    if isinstance(json_obj, dict):
        if "link" in json_obj:
            json_obj.pop("link")
        for key, value in json_obj.items():
            remove_links(value)
    elif isinstance(json_obj, list):
        for item in json_obj:
            remove_links(item)
```

The `pseudonymize` function replaces names and personnummer with dummy entries.

131b `<functions 125c>+≡`

```
def pseudonymize(json_obj):
    """
    Recursively pseudonymizes a JSON data record
    """
    if isinstance(json_obj, dict):
        if "Fornamn" in json_obj:
            json_obj["Fornamn"] = "Student"
        if "Efternamn" in json_obj:
            json_obj["Efternamn"] = "Studentzadeh"
        if "Personnummer" in json_obj:
            json_obj["Personnummer"] = "191234561234"
        if "Epostadress" in json_obj:
            json_obj["Epostadress"] = "user@domain.se"
        if "Anvandarnamn" in json_obj:
            json_obj["Anvandarnamn"] = "user@domain.se"
        if "Utdelningsadress" in json_obj:
            json_obj["Utdelningsadress"] = "Stora vägen 1"
        if "Postnummer" in json_obj:
            json_obj["Postnummer"] = "12345"
        if "Postort" in json_obj:
            json_obj["Postort"] = "Byn"
        if "Telefonnummer" in json_obj:
            json_obj["Telefonnummer"] = "0701234567"
        for value in json_obj.values():
            pseudonymize(value)
    elif isinstance(json_obj, list):
        for item in json_obj:
            pseudonymize(item)
```

Chapter 16

Grade-related API calls

16.1 grade_scales_JSON

To request the grading scales from LADOK, we request all of them and return a list of JSON data objects containing the grading scale data.

```
132a <LadokSession data methods 126b>+=
def grade_scales_JSON(self):
    """
    Fetch all grading scales from LADOK.

    Returns:
        list: A list of JSON objects containing grading scale data from LADOK.

    Raises:
        Exception: If the request fails or returns an error status.
    """
    data = self.get_query(
        "/kataloginformation/internal/grunddata/betygsskala",
        content_type="application/vnd.ladok-kataloginformation+json;charset=UTF-8"
    )

    try:
        return data["Betygsskala"]
    except KeyError as err:
        err.add_note(f"Response data: {data}")
        raise LadokAPIError(f"Unexpected response format when fetching grading scales: "
                             f"missing 'Betygsskala' key") from err
```

We add the following test. If we can convert the return value to JSON, it's probably correct. (No this isn't the best of tests.)

```
132b <test functions 126a>+=
def test_grade_scales_JSON():
    assert ladok.grade_scales_JSON()
```

This code is used in chunk 121.

The output looks like this.

```

1  [
2    {
3      "Benamning": {
4        "sv": "Engradig skala för deltagande",
5        "en": "One-grade scale for participation only"
6      },
7      "Beskrivning": {},
8      "Betygsgrader": [
9        {
10         "Benamning": {
11           "sv": "Deltagit",
12           "en": "Participated"
13         },
14         "Dolt": false,
15         "GiltigSomSlutbetyg": true,
16         "ID": "102041",
17         "Kod": "D",
18         "Ordningsnummer": 1
19       }
20     ],
21     "Dolt": true,
22     "Giltighetsperiod": {},
23     "ID": "102040",
24     "Kod": "DT",
25     "LarosateID": -1
26   },
27   {
28     "Benamning": {
29       "sv": "Engradig skala",
30       "en": "One-grade scale"
31     },
32     "Beskrivning": {},
33     "Betygsgrader": [
34       {
35         "Benamning": {
36           "sv": "Godkänd",
37           "en": "Pass"
38         },
39         "Dolt": false,
40         "GiltigSomSlutbetyg": true,
41         "ID": "1907",
42         "Kod": "G",
43         "Ordningsnummer": 2
44       }
45     ],
46     "Dolt": true,
47     "Giltighetsperiod": {},
48     "ID": "1",
49     "Kod": "FOG",

```

```
50     "LarosateID": -1
51   },
52   {
53     "Benamning": {
54       "sv": "Fyrgradig skala, sifferbetyg",
55       "en": "Four-grade scale, digits"
56     },
57     "Beskrivning": {},
58     "Betygsgrader": [
59       {
60         "Benamning": {
61           "sv": "Mycket väl godkänd",
62           "en": "Pass with distinction"
63         },
64         "Dolt": false,
65         "GiltigSomSlutbetyg": true,
66         "ID": "102036",
67         "Kod": "5",
68         "Ordningsnummer": 1
69       },
70       {
71         "Benamning": {
72           "sv": "Väl godkänd",
73           "en": "Pass with credit"
74         },
75         "Dolt": false,
76         "GiltigSomSlutbetyg": true,
77         "ID": "102037",
78         "Kod": "4",
79         "Ordningsnummer": 2
80       },
81       {
82         "Benamning": {
83           "sv": "Godkänd",
84           "en": "Pass"
85         },
86         "Dolt": false,
87         "GiltigSomSlutbetyg": true,
88         "ID": "102038",
89         "Kod": "3",
90         "Ordningsnummer": 3
91       },
92       {
93         "Benamning": {
94           "sv": "Underkänd",
95           "en": "Fail"
96         },
97         "Dolt": false,
98         "GiltigSomSlutbetyg": false,
99         "ID": "102039",
100        "Kod": "U",
```

```

101     "Ordningsnummer": 4
102   }
103 ],
104   "Dolt": true,
105   "Giltighetsperiod": {},
106   "ID": "102035",
107   "Kod": "TH",
108   "LarosateID": -1
109 },
110 {
111   "Benamning": {
112     "sv": "Tvågradig skala",
113     "en": "Two-grade scale"
114   },
115   "Beskrivning": {},
116   "Betygsgrader": [
117     {
118       "Benamning": {
119         "sv": "Godkänd",
120         "en": "Pass"
121       },
122       "Dolt": false,
123       "GiltigSomSlutbetyg": true,
124       "ID": "2302",
125       "Kod": "G",
126       "Ordningsnummer": 1
127     },
128     {
129       "Benamning": {
130         "sv": "Underkänd",
131         "en": "Fail"
132       },
133       "Dolt": false,
134       "GiltigSomSlutbetyg": false,
135       "ID": "2303",
136       "Kod": "U",
137       "Ordningsnummer": 2
138     }
139   ],
140   "Dolt": true,
141   "Giltighetsperiod": {},
142   "ID": "2",
143   "Kod": "UG",
144   "LarosateID": -1
145 },
146 {
147   "Benamning": {
148     "sv": "Fyrgradig skala, bokstavs-betyg",
149     "en": "Four-grade scale, letters"
150   },
151   "Beskrivning": {},

```

```
152     "Betygsgrader": [  
153       {  
154         "Benamning": {  
155           "sv": "Med beröm godkänd",  
156           "en": "Pass with distinction"  
157         },  
158         "Dolt": false,  
159         "GiltigSomSlutbetyg": true,  
160         "ID": "102031",  
161         "Kod": "AB",  
162         "Ordningsnummer": 1  
163       },  
164       {  
165         "Benamning": {  
166           "sv": "Icke utan beröm godkänd",  
167           "en": "Pass with credit"  
168         },  
169         "Dolt": false,  
170         "GiltigSomSlutbetyg": true,  
171         "ID": "102032",  
172         "Kod": "BA",  
173         "Ordningsnummer": 2  
174       },  
175       {  
176         "Benamning": {  
177           "sv": "Godkänd",  
178           "en": "Pass"  
179         },  
180         "Dolt": false,  
181         "GiltigSomSlutbetyg": true,  
182         "ID": "102033",  
183         "Kod": "B",  
184         "Ordningsnummer": 3  
185       },  
186       {  
187         "Benamning": {  
188           "sv": "Underkänd",  
189           "en": "Fail"  
190         },  
191         "Dolt": false,  
192         "GiltigSomSlutbetyg": false,  
193         "ID": "102034",  
194         "Kod": "U",  
195         "Ordningsnummer": 4  
196       }  
197     ],  
198     "Dolt": true,  
199     "Giltighetsperiod": {},  
200     "ID": "102030",  
201     "Kod": "UM",  
202     "LarosateID": -1
```

```

203 },
204 {
205   "Benamning": {
206     "sv": "Tregradig skala",
207     "en": "Three-grade scale"
208   },
209   "Beskrivning": {},
210   "Betygsgrader": [
211     {
212       "Benamning": {
213         "sv": "Väl godkänd",
214         "en": "Pass with distinction"
215       },
216       "Dolt": false,
217       "GiltigSomSlutbetyg": true,
218       "ID": "101313",
219       "Kod": "VG",
220       "Ordningsnummer": 1
221     },
222     {
223       "Benamning": {
224         "sv": "Godkänd",
225         "en": "Pass"
226       },
227       "Dolt": false,
228       "GiltigSomSlutbetyg": true,
229       "ID": "101314",
230       "Kod": "G",
231       "Ordningsnummer": 2
232     },
233     {
234       "Benamning": {
235         "sv": "Underkänd",
236         "en": "Fail"
237       },
238       "Dolt": false,
239       "GiltigSomSlutbetyg": false,
240       "ID": "101315",
241       "Kod": "U",
242       "Ordningsnummer": 3
243     }
244   ],
245   "Dolt": false,
246   "Giltighetsperiod": {},
247   "ID": "101312",
248   "Kod": "UV",
249   "LarosateID": -1
250 },
251 {
252   "Benamning": {
253     "sv": "Z_Felaktig",

```



```
254     "en": "Three-grade scale"
255   },
256   "Beskrivning": {},
257   "Betygsgrader": [
258     {
259       "Benamning": {
260         "sv": "Väl godkänd",
261         "en": "Pass with distinction"
262       },
263       "Dolt": false,
264       "GiltigSomSlutbetyg": true,
265       "ID": "101311",
266       "Kod": "VG",
267       "Ordningsnummer": 1
268     }
269   ],
270   "Dolt": true,
271   "Giltighetsperiod": {
272     "Slutdatum": "0001-01-01"
273   },
274   "ID": "101310",
275   "Kod": "UVX",
276   "LarosateID": -1
277 },
278 {
279   "Benamning": {
280     "sv": "Sjugradig betygsskala",
281     "en": "Seven point grading scale"
282   },
283   "Beskrivning": {},
284   "Betygsgrader": [
285     {
286       "Benamning": {
287         "sv": "Utmärkt",
288         "en": "Excellent"
289       },
290       "Dolt": false,
291       "GiltigSomSlutbetyg": true,
292       "ID": "131661",
293       "Kod": "A",
294       "Ordningsnummer": 1
295     },
296     {
297       "Benamning": {
298         "sv": "Mycket bra",
299         "en": "Very Good"
300       },
301       "Dolt": false,
302       "GiltigSomSlutbetyg": true,
303       "ID": "131667",
304       "Kod": "B",
```

```
305     "Ordningsnummer": 2
306   },
307   {
308     "Benamning": {
309       "sv": "Bra",
310       "en": "Good"
311     },
312     "Dolt": false,
313     "GiltigSomSlutbetyg": true,
314     "ID": "131673",
315     "Kod": "C",
316     "Ordningsnummer": 3
317   },
318   {
319     "Benamning": {
320       "sv": "Tillfredsställande",
321       "en": "Satisfactory"
322     },
323     "Dolt": false,
324     "GiltigSomSlutbetyg": true,
325     "ID": "131679",
326     "Kod": "D",
327     "Ordningsnummer": 4
328   },
329   {
330     "Benamning": {
331       "sv": "Tillräcklig",
332       "en": "Sufficient"
333     },
334     "Dolt": false,
335     "GiltigSomSlutbetyg": true,
336     "ID": "131691",
337     "Kod": "E",
338     "Ordningsnummer": 5
339   },
340   {
341     "Benamning": {
342       "sv": "Underkänd",
343       "en": "Not satisfactory"
344     },
345     "Dolt": false,
346     "GiltigSomSlutbetyg": false,
347     "ID": "131696",
348     "Kod": "FX",
349     "Ordningsnummer": 6
350   },
351   {
352     "Benamning": {
353       "sv": "Underkänd",
354       "en": "Failed"
355     },
356   },
```

```
356         "Dolt": false,
357         "GiltigSomSlutbetyg": false,
358         "ID": "131697",
359         "Kod": "F",
360         "Ordningsnummer": 7
361     }
362 ],
363 "Dolt": false,
364 "Giltighetsperiod": {
365     "Startdatum": "2007-07-01"
366 },
367 "ID": "131657",
368 "Kod": "AF",
369 "LarosateID": 29
370 },
371 {
372     "Benamning": {
373         "sv": "GD",
374         "en": "GD"
375     },
376     "Beskrivning": {},
377     "Betygsgrader": [
378         {
379             "Benamning": {
380                 "sv": "Godkänd",
381                 "en": "Pass"
382             },
383             "Dolt": false,
384             "GiltigSomSlutbetyg": true,
385             "ID": "131680",
386             "Kod": "G",
387             "Ordningsnummer": 1
388         },
389         {
390             "Benamning": {
391                 "sv": "Deltagit",
392                 "en": "Attended"
393             },
394             "Dolt": false,
395             "GiltigSomSlutbetyg": true,
396             "ID": "131688",
397             "Kod": "D",
398             "Ordningsnummer": 2
399         },
400         {
401             "Benamning": {
402                 "sv": "Underkänd",
403                 "en": "Not satisfactory"
404             },
405             "Dolt": false,
406             "GiltigSomSlutbetyg": false,
```

```
407         "ID": "131689",
408         "Kod": "U",
409         "Ordningsnummer": 3
410     }
411 ],
412     "Dolt": true,
413     "Giltighetsperiod": {},
414     "ID": "131650",
415     "Kod": "GD",
416     "LarosateID": 29
417 },
418 {
419     "Benamning": {
420         "sv": "MH",
421         "en": "MH"
422     },
423     "Beskrivning": {},
424     "Betygsgrader": [
425         {
426             "Benamning": {
427                 "sv": "Fem+",
428                 "en": "Five+"
429             },
430             "Dolt": false,
431             "GiltigSomSlutbetyg": true,
432             "ID": "131660",
433             "Kod": "55",
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1226                 "sv": "Fem+",
1227                 "en": "Five+"
1228             },
1229             "Dolt": false,
1230             "GiltigSomSlutbetyg": true,
1231             "ID": "131660",
1232             "Kod": "55",
1233             "Ordningsnummer": 1
1234         },
1235         {
1236             "Benamning": {
1237                 "sv": "Fem",
1238                 "en": "Five"
1239             },
1240             "Dolt": false,
1241             "GiltigSomSlutbetyg": true,
1242             "ID": "131664",
1243             "Kod": "50",
1244             "Ordningsnummer": 2
1245         },
1246         {
1247             "Benamning": {
1248                 "sv": "Fyra+",
1249                 "en": "Four+"
1250             },
1251             "Dolt": false,
1252             "GiltigSomSlutbetyg": true,
1253             "ID": "131674",
1254             "Kod": "45",
1255             "Ordningsnummer": 3
1256         }
1257     ],
1258     "Dolt": false,
1259     "GiltigSomSlutbetyg": true,
1260     "ID": "131670",
1261     "Kod": "50",
1262     "Ordningsnummer": 1
1263 },
1264 {
1265     "Benamning": {
1266         "sv": "Fem",
1267         "en": "Five"
1268     },
1269     "Beskrivning": {},
1270     "Betygsgrader": [
1271         {
1272             "Benamning": {
1273                 "sv": "Fem+",
1274                 "en": "Five+"
1275             },
1276             "Dolt": false,
1277             "GiltigSomSlutbetyg": true,
1278             "ID": "131660",
1279             "Kod": "55",
1280             "Ordningsnummer": 1
1281         },
1282         {
1283             "Benamning": {
1284                 "sv": "Fem",
1285                 "en": "Five"
1286             },
1287             "Dolt": false,
1288             "GiltigSomSlutbetyg": true,
1289             "ID": "131664",
1290             "Kod": "50",
1291             "Ordningsnummer": 2
1292         },
1293         {
1294             "Benamning": {
1295                 "sv": "Fyra+",
1296                 "en": "Four+"
1297             },
1298             "Dolt": false,
1299             "GiltigSomSlutbetyg": true,
1300             "ID": "131674",
1301             "Kod": "45",
1302             "Ordningsnummer": 3
1303         }
1304     ],
1305     "Dolt": false,
1306     "GiltigSomSlutbetyg": true,
1307     "ID": "131670",
1308     "Kod": "50",
1309     "Ordningsnummer": 1
1310 },
1311 {
1312     "Benamning": {
1313         "sv": "Fem",
1314         "en": "Five"
1315     },
1316     "Beskrivning": {},
1317     "Betygsgrader": [
1318         {
1319             "Benamning": {
1320                 "sv": "Fem+",
1321                 "en": "Five+"
1322             },
1323             "Dolt": false,
1324             "GiltigSomSlutbetyg": true,
1325             "ID": "131660",
1326             "Kod": "55",
1327             "Ordningsnummer": 1
1328         },
1329         {
1330             "Benamning": {
1331                 "sv": "Fem",
1332                 "en": "Five"
1333             },
1334             "Dolt": false,
1335             "GiltigSomSlutbetyg": true,
1336             "ID": "131664",
1337             "Kod": "50",
1338             "Ordningsnummer": 2
1339         },
1340         {
1341             "Benamning": {
1342                 "sv": "Fyra+",
1343                 "en": "Four+"
1344             },
1345             "Dolt": false,
1346             "GiltigSomSlutbetyg": true,
1347             "ID": "131674",
1348             "Kod": "45",
1349             "Ordningsnummer": 3
1350         }
1351     ],
1352     "Dolt": false,
1353     "GiltigSomSlutbetyg": true,
1354     "ID": "131670",
1355     "Kod": "50",
1356     "Ordningsnummer": 1
1357 },
1358 {
1359     "Benamning": {
1360         "sv": "Fem",
1361         "en": "Five"
1362     },
1363     "Beskrivning": {},
1364     "Betygsgrader": [
1365         {
1366             "Benamning": {
1367                 "sv": "Fem+",
1368                 "en": "Five+"
1369             },
1370             "Dolt": false,
1371             "GiltigSomSlutbetyg": true,
1372             "ID": "131660",
1373             "Kod": "55",
1374             "Ordningsnummer": 1
1375         },
1376         {
1377             "Benamning": {
1378                 "sv": "Fem",
1379                 "en": "Five"
1380             },
1381             "Dolt": false,
1382             "GiltigSomSlutbetyg": true,
1383             "ID": "131664",
1384             "Kod": "50",
1385             "Ordningsnummer": 2
1386         },
1387         {
1388             "Benamning": {
1389                 "sv": "Fyra+",
1390                 "en": "Four+"
1391             },
1392             "Dolt": false,
1393             "GiltigSomSlutbetyg": true,
1394             "ID": "131674",
1395             "Kod": "45",
1396             "Ordningsnummer": 3
1397         }
1398     ],
1399     "Dolt": false,
1400     "GiltigSomSlutbetyg": true,
1401     "ID": "131670",
1402     "Kod": "50",
1403     "Ordningsnummer": 1
1404 },
1405 {
1406     "Benamning": {
1407         "sv": "Fem",
1408         "en": "Five"
1409     },
1410     "Beskrivning": {},
1411     "Betygsgrader": [
1412         {
1413             "Benamning": {
1414                 "sv": "Fem+",
1415                 "en": "Five+"
1416             },
1417             "Dolt": false,
1418             "GiltigSomSlutbetyg": true,
1419             "ID": "131660",
1420             "Kod": "55",
1421             "Ordningsnummer": 1
1422         },
1423         {
1424             "Benamning": {
1425                 "sv": "Fem",
1426                 "en": "Five"
1427             },
1428             "Dolt": false,
1429             "GiltigSomSlutbetyg": true,
1430             "ID": "131664",
1431             "Kod": "50",
1432             "Ordningsnummer": 2
1433         },
1434         {
1435             "Benamning": {
1436                 "sv": "Fyra+",
1437                 "en": "Four+"
1438             },
1439             "Dolt": false,
1440             "GiltigSomSlutbetyg": true,
1441             "ID": "131674",
1442             "Kod": "45",
1443             "Ordningsnummer": 3
1444         }
1445     ],
1446     "Dolt": false,
1447     "GiltigSomSlutbetyg": true,
1448     "ID": "131670",
1449     "Kod": "50",
1450     "Ordningsnummer": 1
1451 },
1452 {
1453     "Benamning": {
1454         "sv": "Fem",
1455         "en": "Five"
1456     },
1457     "Beskrivning": {},
1458     "Betygsgrader": [
1459         {
1460             "Benamning": {
1461                 "sv": "Fem+",
1462                 "en": "Five+"
1463             },
1464             "Dolt": false,
1465             "GiltigSomSlutbetyg": true,
1466             "ID": "131660",
1467             "Kod": "55",
1468             "Ordningsnummer": 1
1469         },
1470         {
1471             "Benamning": {
1472                 "sv": "Fem",
1473                 "en": "Five"
1474             },
1475             "Dolt": false,
1476             "GiltigSomSlutbetyg": true,
1477             "ID": "131664",
1478             "Kod": "50",
1479             "Ordningsnummer": 2
1480        
```

```
458     {
459         "Benamning": {
460             "sv": "Fyra",
461             "en": "Four"
462         },
463         "Dolt": false,
464         "GiltigSomSlutbetyg": true,
465         "ID": "131678",
466         "Kod": "40",
467         "Ordningsnummer": 4
468     },
469     {
470         "Benamning": {
471             "sv": "Fem++",
472             "en": "Five++"
473         },
474         "Dolt": false,
475         "GiltigSomSlutbetyg": true,
476         "ID": "131692",
477         "Kod": "60",
478         "Ordningsnummer": 5
479     },
480     {
481         "Benamning": {
482             "sv": "Tre+",
483             "en": "Three+"
484         },
485         "Dolt": false,
486         "GiltigSomSlutbetyg": true,
487         "ID": "131693",
488         "Kod": "35",
489         "Ordningsnummer": 6
490     },
491     {
492         "Benamning": {
493             "sv": "Tre",
494             "en": "Three"
495         },
496         "Dolt": false,
497         "GiltigSomSlutbetyg": true,
498         "ID": "131694",
499         "Kod": "30",
500         "Ordningsnummer": 7
501     },
502     {
503         "Benamning": {
504             "sv": "Underkänd",
505             "en": "Not satisfactory"
506         },
507         "Dolt": false,
508         "GiltigSomSlutbetyg": false,
```

```

509         "ID": "131695",
510         "Kod": "U",
511         "Ordningsnummer": 8
512     }
513 ],
514     "Dolt": true,
515     "Giltighetsperiod": {},
516     "ID": "131651",
517     "Kod": "MH",
518     "LarosateID": 29
519 },
520 {
521     "Benamning": {
522         "sv": "Okänd betygsskala",
523         "en": "Unknown grading scale"
524     },
525     "Beskrivning": {},
526     "Betygsgrader": [
527         {
528             "Benamning": {
529                 "sv": "Underkänd",
530                 "en": "Not satisfactory"
531             },
532             "Dolt": false,
533             "GiltigSomSlutbetyg": false,
534             "ID": "131672",
535             "Kod": "FX",
536             "Ordningsnummer": 1
537         }
538     ],
539     "Dolt": true,
540     "Giltighetsperiod": {
541         "Slutdatum": "2018-06-19"
542     },
543     "ID": "131654",
544     "Kod": "OKÄND",
545     "LarosateID": 29
546 },
547 {
548     "Benamning": {
549         "sv": "Tvågradig betygsskala",
550         "en": "Two point grading scale"
551     },
552     "Beskrivning": {},
553     "Betygsgrader": [
554         {
555             "Benamning": {
556                 "sv": "Godkänd",
557                 "en": "Pass"
558             },
559             "Dolt": false,

```

```

560         "GiltigSomSlutbetyg": true,
561         "ID": "131658",
562         "Kod": "P",
563         "Ordningsnummer": 1
564     },
565     {
566         "Benamning": {
567             "sv": "Underkänd",
568             "en": "Failed"
569         },
570         "Dolt": false,
571         "GiltigSomSlutbetyg": false,
572         "ID": "131663",
573         "Kod": "F",
574         "Ordningsnummer": 2
575     }
576 ],
577 "Dolt": false,
578 "Giltighetsperiod": {},
579 "ID": "131656",
580 "Kod": "PF",
581 "LarosateID": 29
582 },
583 {
584     "Benamning": {
585         "sv": "SS",
586         "en": "SS"
587     },
588     "Beskrivning": {},
589     "Betygsgrader": [
590         {
591             "Benamning": {
592                 "sv": "Sex",
593                 "en": "Six"
594             },
595             "Dolt": false,
596             "GiltigSomSlutbetyg": true,
597             "ID": "131665",
598             "Kod": "6",
599             "Ordningsnummer": 1
600         }
601     ],
602     "Dolt": true,
603     "Giltighetsperiod": {},
604     "ID": "131653",
605     "Kod": "SS",
606     "LarosateID": 29
607 },
608 {
609     "Benamning": {
610         "sv": "TH",

```

```
611     "en": "TH"
612   },
613   "Beskrivning": {},
614   "Betygsgrader": [
615     {
616       "Benamning": {
617         "sv": "Fem",
618         "en": "Five"
619       },
620       "Dolt": false,
621       "GiltigSomSlutbetyg": true,
622       "ID": "131675",
623       "Kod": "5",
624       "Ordningsnummer": 1
625     },
626     {
627       "Benamning": {
628         "sv": "Fyra",
629         "en": "Four"
630       },
631       "Dolt": false,
632       "GiltigSomSlutbetyg": true,
633       "ID": "131677",
634       "Kod": "4",
635       "Ordningsnummer": 2
636     },
637     {
638       "Benamning": {
639         "sv": "Tre",
640         "en": "Three"
641       },
642       "Dolt": false,
643       "GiltigSomSlutbetyg": true,
644       "ID": "131682",
645       "Kod": "3",
646       "Ordningsnummer": 3
647     },
648     {
649       "Benamning": {
650         "sv": "Underkänd",
651         "en": "Not satisfactory"
652       },
653       "Dolt": false,
654       "GiltigSomSlutbetyg": false,
655       "ID": "131690",
656       "Kod": "U",
657       "Ordningsnummer": 4
658     }
659   ],
660   "Dolt": true,
661   "Giltighetsperiod": {
```



```

662     "Slutdatum": "2018-06-19"
663   },
664   "ID": "131669",
665   "Kod": "TH",
666   "LarosateID": 29
667 },
668 {
669   "Benamning": {
670     "sv": "TP",
671     "en": "TP"
672   },
673   "Beskrivning": {},
674   "Betygsgrader": [
675     {
676       "Benamning": {
677         "sv": "Fem",
678         "en": "Five"
679       },
680       "Dolt": false,
681       "GiltigSomSlutbetyg": true,
682       "ID": "131666",
683       "Kod": "5",
684       "Ordningsnummer": 1
685     },
686     {
687       "Benamning": {
688         "sv": "Fyra",
689         "en": "Four"
690       },
691       "Dolt": false,
692       "GiltigSomSlutbetyg": true,
693       "ID": "131698",
694       "Kod": "4",
695       "Ordningsnummer": 2
696     },
697     {
698       "Benamning": {
699         "sv": "Tre",
700         "en": "Three"
701       },
702       "Dolt": false,
703       "GiltigSomSlutbetyg": true,
704       "ID": "131699",
705       "Kod": "3",
706       "Ordningsnummer": 3
707     },
708     {
709       "Benamning": {
710         "sv": "Godkänd",
711         "en": "Pass"
712       },

```

```

713     "Dolt": false,
714     "GiltigSomSlutbetyg": true,
715     "ID": "131700",
716     "Kod": "G",
717     "Ordningsnummer": 4
718 },
719 {
720     "Benamning": {
721         "sv": "Deltagit",
722         "en": "Attended"
723     },
724     "Dolt": false,
725     "GiltigSomSlutbetyg": true,
726     "ID": "131701",
727     "Kod": "D",
728     "Ordningsnummer": 5
729 },
730 {
731     "Benamning": {
732         "sv": "Underkänd",
733         "en": "Not satisfactory"
734     },
735     "Dolt": false,
736     "GiltigSomSlutbetyg": false,
737     "ID": "131702",
738     "Kod": "U",
739     "Ordningsnummer": 6
740 }
741 ],
742 "Dolt": true,
743 "Giltighetsperiod": {},
744 "ID": "131652",
745 "Kod": "TP",
746 "LarosateID": 29
747 },
748 {
749     "Benamning": {
750         "sv": "UV",
751         "en": "UV"
752     },
753     "Beskrivning": {},
754     "Betygsgrader": [
755         {
756             "Benamning": {
757                 "sv": "Väl godkänd",
758                 "en": "Pass with Distinction"
759             },
760             "Dolt": false,
761             "GiltigSomSlutbetyg": true,
762             "ID": "131670",
763             "Kod": "VG",

```

```

764     "Ordningsnummer": 1
765 },
766 {
767     "Benamning": {
768         "sv": "Godkänd",
769         "en": "Pass"
770     },
771     "Dolt": false,
772     "GiltigSomSlutbetyg": true,
773     "ID": "131671",
774     "Kod": "G",
775     "Ordningsnummer": 2
776 },
777 {
778     "Benamning": {
779         "sv": "Underkänd",
780         "en": "Not satisfactory"
781     },
782     "Dolt": false,
783     "GiltigSomSlutbetyg": false,
784     "ID": "131676",
785     "Kod": "U",
786     "Ordningsnummer": 3
787 }
788 ],
789 "Dolt": true,
790 "Giltighetsperiod": {
791     "Slutdatum": "2018-06-19"
792 },
793 "ID": "131668",
794 "Kod": "UV",
795 "LarosateID": 29
796 },
797 {
798     "Benamning": {
799         "sv": "XX",
800         "en": "XX"
801     },
802     "Beskrivning": {},
803     "Betygsgrader": [
804         {
805             "Benamning": {
806                 "sv": "Sju",
807                 "en": "Seven"
808             },
809             "Dolt": false,
810             "GiltigSomSlutbetyg": true,
811             "ID": "131659",
812             "Kod": "7",
813             "Ordningsnummer": 1
814         },

```

```
815     {
816       "Benamning": {
817         "sv": "Sex",
818         "en": "Six"
819       },
820       "Dolt": false,
821       "GiltigSomSlutbetyg": true,
822       "ID": "131662",
823       "Kod": "6",
824       "Ordningsnummer": 2
825     },
826     {
827       "Benamning": {
828         "sv": "Fem",
829         "en": "Five"
830       },
831       "Dolt": false,
832       "GiltigSomSlutbetyg": true,
833       "ID": "131681",
834       "Kod": "5",
835       "Ordningsnummer": 3
836     },
837     {
838       "Benamning": {
839         "sv": "Fyra",
840         "en": "Four"
841       },
842       "Dolt": false,
843       "GiltigSomSlutbetyg": true,
844       "ID": "131683",
845       "Kod": "4",
846       "Ordningsnummer": 4
847     },
848     {
849       "Benamning": {
850         "sv": "Tre",
851         "en": "Tree"
852       },
853       "Dolt": false,
854       "GiltigSomSlutbetyg": true,
855       "ID": "131684",
856       "Kod": "3",
857       "Ordningsnummer": 5
858     },
859     {
860       "Benamning": {
861         "sv": "Godkänd",
862         "en": "Pass"
863       },
864       "Dolt": false,
865       "GiltigSomSlutbetyg": true,
```

```
866     "ID": "131685",
867     "Kod": "G",
868     "Ordningsnummer": 6
869 },
870 {
871     "Benamning": {
872         "sv": "Deltagit",
873         "en": "Attended"
874     },
875     "Dolt": false,
876     "GiltigSomSlutbetyg": true,
877     "ID": "131686",
878     "Kod": "D",
879     "Ordningsnummer": 7
880 },
881 {
882     "Benamning": {
883         "sv": "Underkänd",
884         "en": "Not satisfactory"
885     },
886     "Dolt": false,
887     "GiltigSomSlutbetyg": false,
888     "ID": "131687",
889     "Kod": "U",
890     "Ordningsnummer": 8
891 }
892 ],
893 "Dolt": true,
894 "Giltighetsperiod": {},
895 "ID": "131655",
896 "Kod": "XX",
897 "LarosateID": 29
898 }
899 ]
```

Chapter 17

Student-related API calls

Here we have collected API-calls related to students.

17.1 get_student_data_JSON and get_student_data_by_uid_JSON

This method fetches the basic information about a student based on personnummer. To pull the data based on personnummer we must actually form a search query. (This code is a merge of a slight adaptation of the code by Baltatzis and that of Chip.)

```
151 <LadokSession data methods 126b>+=  
#####  
#  
# get_student_data_JSON  
#  
# person_nr          - personnummer, flera format accepteras enligt regex:  
#                      (\d\d)?(\d\d)(\d\d\d\d\d)[+\-]?(\w\w\w\w)  
#  
# lang               - language code 'en' or 'sv', defaults to 'sv'  
#  
# RETURNERAR en dictionary med för- och efternamn and more  
def get_student_data_JSON(self, person_nr_raw, lang = 'sv'):  
    """  
    Get student data from LADOK using a Swedish personal number (personnummer).  
  
    Args:  
        person_nr_raw (str): Swedish personal number in format YYYYMMDD-XXXX or similar  
        lang (str, optional): Language code 'en' or 'sv'. Defaults to 'sv'.  
  
    Returns:  
        dict: Student data dictionary containing name, contact info, and more.  
  
    Raises:  
        Exception: If the personal number format is invalid.  
        ValueError: If student cannot be found or multiple matches found.  
    """  
    person_nr = format_personnummer(person_nr_raw)
```

```

if not person_nr: raise LadokValidationError('Invalid person nr ' + person_nr_raw)

response = self.session.get(
    url=self.base_gui_proxy_url +
        "/studentinformation/internal/student/filtrera"
        f"?personnummer={person_nr}"
        "&limit=2&page=1"
        "&orderby=EFTERNAMN_ASC&orderby=FORNAMN_ASC"
        "&orderby=PERSONNUMMER_ASC",
    headers=self.headers)

if response.status_code == requests.codes.ok:
    record = response.json()["Resultat"]
else:
    raise ValueError(
        f"can't find student based on personnummer {person_nr}: "
        f"bad response: {response.text}")

if len(record) != 1:
    raise ValueError(
        f"can't find student based on personnummer {person_nr}: "
        f"not a unique match: {record}")

return record[0]

```

To test this function, we do the following.

```

152a <test functions 126a>+≡
def test_get_student_data_JSON():
    assert ladok.get_student_data_JSON("8506097891")

```

This code is used in chunk 121.

We also have the corresponding for LADOK's UID, which fetches the record directly.

```

152b <LadokSession data methods 126b>+≡
#####
#
# get_student_data_by_uid_JSON
#
# uid          - Ladok ID
#
# RETURNERAR en dictionary med för- och efternamn and more
def get_student_data_by_uid_JSON(self, uid):
    """
    Get student data from LADOK using a LADOK UID.

    Args:
        uid (str): The student's unique LADOK identifier.

    Returns:
        dict: Student data dictionary containing personal information.
    """

```

```

Raises:
    AttributeError: If student cannot be found by the given UID.
"""
data = self.get_query(
    f"/studentinformation/internal/student/{uid}",
    content_type="application/vnd.ladok-studentinformation+json;charset=UTF-8")

return data

```

To test this function, we do the following.

```

153a <test functions 126a>+≡
def test_get_student_data_by_uid_JSON():
    assert ladok.get_student_data_by_uid_JSON(student_uid)

```

This code is used in chunk 121.

The result is the same for both method.

```

1 {
2     "Avliden": false,
3     "Efternamn": "Studentzadeh",
4     "ExterntUID": "0b95cffc-3ba4-405f-b8d6-5edf2e014420",
5     "FelVidEtableringExternt": false,
6     "Fodelsedata": "1985-06-09",
7     "FolkbokforingsbevakningTillOchMed": "2027-04-11",
8     "Fornamn": "Student",
9     "KonID": 2,
10    "Personnummer": "191234561234",
11    "SenastAndradAv": "system@ladokintern",
12    "SenastSparad": "2026-02-09T21:00:49.778",
13    "Uid": "de709f81-a867-11e7-8dbf-78e86dc2470c"
14 }

```

17.2 get_student_contact_data_JSON

We want to get the contact info for a student from LADOK. This data includes email, postal address and phone number. It also includes when they were last updated.

```

153b <LadokSession data methods 126b>+≡
def get_student_contact_data_JSON(self, student_id):
    """
    Returns contact data for student with student_id, returns JSON
    """
    try:
        return self.get_query(
            f"/studentinformation/internal/student/{student_id}/kontaktuppgifter",
            "application/vnd.ladok-studentinformation+json"
        )
    except LadokAPIError as err:
        raise LadokAPIError(f"Failed to get contact data for "
                             f"student {student_id}: {err}") from err
    except LadokServerError as err:
        raise LadokServerError(f"LADOK server error when getting contact data for "

```



```
f"student {student_id}: {err}") from err
```

We test this function.

```
154a <test functions 126a>+=
def test_get_student_contact_data_JSON():
    assert ladok.get_student_contact_data_JSON(student_uid)
```

This code is used in chunk 121.

The output is as follows.

```
1 {
2   "Epostadress": "user@domain.se",
3   "EpostadressSenastAndrad": "2018-06-19T17:42:23.441",
4   "LarosateID": -1,
5   "Postadresser": [
6     {
7       "PostadressTyp": "FOLKBOKFORINGSADRESS",
8       "Utdelningsadress": "Stora vägen 1",
9       "Postnummer": "12345",
10      "Postort": "Byn",
11      "Land": "Sverige",
12      "SenastAndrad": "2018-09-21T14:20:24.679"
13    }
14  ],
15  "SenastAndradAv": "informationskonverterare@kth",
16  "SenastSparad": "2018-06-19T17:42:23.457",
17  "StudentUID": "de709f81-a867-11e7-8dbf-78e86dc2470c",
18  "Telefonnummer": "0701234567",
19  "TelefonnummerSenastAndrad": "2018-06-19T17:42:23.441",
20  "Uid": "2ad333ce-a894-11e7-8f03-147ba8e44f36"
21 }
```

17.3 get_student_suspensions_JSON

We want to check if any student is suspended from studies. We can get a list of all suspension periods from LADOK.

```
154b <LadokSession data methods 126b>+=
def get_student_suspensions_JSON(self, student_id):
    """
    Returns suspensions from studies for student with student_id,
    returns JSON
    """
    try:
        return self.get_query(
            f"/studentinformation/internal/avstangning/student/{student_id}",
            "application/vnd.ladok-studentinformation+json"
        )
    except LadokAPIError as err:
        raise LadokAPIError(f"Failed to get suspensions for "
                             f"student {student_id}: {err}") from err
    except LadokServerError as err:
```

```
raise LadokServerError(f"LADOK server error when getting suspensions for "
                       f"student {student_id}: {err}") from err
```

We test this function.

155a *<test functions 126a>+≡*

```
def test_get_student_suspensions_JSON():
    assert ladok.get_student_suspensions_JSON(student_uid)
```

This code is used in chunk 121.

The output looks like this.

```
1 {
2   "Avstangning": []
3 }
```

17.4 registrations_JSON

This methods returns *all* registrations for a student, i.e., registrations on courses and programmes.

155b *<LadokSession data methods 126b>+≡*

```
def registrations_JSON(self, student_id):
    """
    Return all registrations for student with ID student_id.
    """
    data = self.get_query(
        "/studiedeltagande/internal/tillfallesdeltagande/kurstillfallesdeltagande"
        f"/student/{student_id}",
        "application/vnd.ladok-studiedeltagande+json"
    )

    try:
        return data["Tillfallesdeltaganden"]
    except KeyError as err:
        err.add_note(f"Response data: {data}")
        raise LadokAPIError(f"Unexpected response format when fetching registrations for "
                           f"student {student_id}: missing 'Tillfallesdeltaganden' key") from err
```

We provide the following test.

155c *<test functions 126a>+≡*

```
def test_registrations_JSON():
    results = ladok.registrations_JSON(student_uid)
    assert json.dumps(results, indent=2, ensure_ascii=False)
```

This code is used in chunk 121.

The output looks like this.

```
1 [
2   {
3     "Aterbud": false,
4     "Avklarad": false,
5     "HarTillgodoraknande": false,
6     "LarosateID": 29,
7     "Nuvarande": true,
```

```
8     "Paborjad": true,
9     "Perioddeltaganden": [
10     {
11         "Anpassat": false,
12         "Omfattningsvarde": "0.0",
13         "Periodbenamningar": {},
14         "PerioddeltagandeUID": "e2bbf16e-73db-11e8-b9fd-0a821ba7448e",
15         "Periodindex": 1,
16         "Registreringsperiod": {
17             "Slutdatum": "2014-12-31",
18             "Startdatum": "2014-07-21"
19         },
20         "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
21         "UtbildningsPeriodFran": "2014-07-21",
22         "UtbildningsPeriodTill": "2014-12-31"
23     },
24     {
25         "Anpassat": false,
26         "Omfattningsvarde": "0.0",
27         "Periodbenamningar": {},
28         "PerioddeltagandeUID": "e2bbf16f-73db-11e8-b9fd-0a821ba7448e",
29         "Periodindex": 2,
30         "Registreringsperiod": {
31             "Slutdatum": "2015-06-30",
32             "Startdatum": "2015-01-01"
33         },
34         "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
35         "UtbildningsPeriodFran": "2015-01-01",
36         "UtbildningsPeriodTill": "2015-06-30"
37     },
38     {
39         "Anpassat": false,
40         "Omfattningsvarde": "0.0",
41         "Periodbenamningar": {},
42         "PerioddeltagandeUID": "e2bbf170-73db-11e8-b9fd-0a821ba7448e",
43         "Periodindex": 3,
44         "Registreringsperiod": {
45             "Slutdatum": "2015-12-31",
46             "Startdatum": "2015-07-01"
47         },
48         "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
49         "UtbildningsPeriodFran": "2015-07-01",
50         "UtbildningsPeriodTill": "2015-12-31"
51     },
52     {
53         "Anpassat": false,
54         "Omfattningsvarde": "0.0",
55         "Periodbenamningar": {},
56         "PerioddeltagandeUID": "e2bbf171-73db-11e8-b9fd-0a821ba7448e",
57         "Periodindex": 4,
58         "Registreringsperiod": {
```

```
59         "Slutdatum": "2016-06-30",
60         "Startdatum": "2016-01-01"
61     },
62     "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
63     "UtbildningsPeriodFran": "2016-01-01",
64     "UtbildningsPeriodTill": "2016-06-30"
65 },
66 {
67     "Anpassat": false,
68     "Omfattningsvarde": "0.0",
69     "Periodbenamningar": {},
70     "PerioddeltagandeUID": "e2bbf172-73db-11e8-b9fd-0a821ba7448e",
71     "Periodindex": 5,
72     "Registreringsperiod": {
73         "Slutdatum": "2016-12-31",
74         "Startdatum": "2016-07-01"
75     },
76     "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
77     "UtbildningsPeriodFran": "2016-07-01",
78     "UtbildningsPeriodTill": "2016-12-31"
79 },
80 {
81     "Anpassat": false,
82     "Omfattningsvarde": "0.0",
83     "Periodbenamningar": {},
84     "PerioddeltagandeUID": "e2bbf173-73db-11e8-b9fd-0a821ba7448e",
85     "Periodindex": 6,
86     "Registreringsperiod": {
87         "Slutdatum": "2017-06-30",
88         "Startdatum": "2017-01-01"
89     },
90     "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
91     "UtbildningsPeriodFran": "2017-01-01",
92     "UtbildningsPeriodTill": "2017-06-30"
93 },
94 {
95     "Anpassat": false,
96     "Omfattningsvarde": "0.0",
97     "Periodbenamningar": {},
98     "PerioddeltagandeUID": "e2bbf174-73db-11e8-b9fd-0a821ba7448e",
99     "Periodindex": 7,
100    "Registreringsperiod": {
101        "Slutdatum": "2017-12-31",
102        "Startdatum": "2017-07-01"
103    },
104    "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
105    "UtbildningsPeriodFran": "2017-07-01",
106    "UtbildningsPeriodTill": "2017-12-31"
107 },
108 {
109     "Anpassat": false,
```

```

110     "Omfattningsvarde": "0.0",
111     "Periodbenamningar": {},
112     "PerioddeltagandeUID": "e2bbf175-73db-11e8-b9fd-0a821ba7448e",
113     "Periodindex": 8,
114     "Registreringsperiod": {
115         "Slutdatum": "2018-06-30",
116         "Startdatum": "2018-01-01"
117     },
118     "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
119     "UtbildningsPeriodFran": "2018-01-01",
120     "UtbildningsPeriodTill": "2018-06-30"
121 },
122 {
123     "Anpassat": false,
124     "Omfattningsvarde": "0.0",
125     "Periodbenamningar": {},
126     "PerioddeltagandeUID": "1f617c1b-bfdd-11e8-8049-fd7fef4b484c",
127     "Periodindex": 9,
128     "Registreringsperiod": {
129         "Slutdatum": "2018-12-31",
130         "Startdatum": "2018-07-01"
131     },
132     "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
133     "UtbildningsPeriodFran": "2018-07-01",
134     "UtbildningsPeriodTill": "2018-12-31"
135 },
136 {
137     "Anpassat": false,
138     "Omfattningsvarde": "0.0",
139     "Periodbenamningar": {},
140     "PerioddeltagandeUID": "1f617c1c-bfdd-11e8-8049-fd7fef4b484c",
141     "Periodindex": 10,
142     "Registreringsperiod": {
143         "Slutdatum": "2019-06-30",
144         "Startdatum": "2019-01-01"
145     },
146     "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
147     "UtbildningsPeriodFran": "2019-01-01",
148     "UtbildningsPeriodTill": "2019-06-30"
149 },
150 {
151     "Anpassat": false,
152     "Omfattningsvarde": "0.0",
153     "Periodbenamningar": {},
154     "PerioddeltagandeUID": "a0976dac-b515-11e9-a427-41cc12dd4dc3",
155     "Periodindex": 11,
156     "Registreringsperiod": {
157         "Slutdatum": "2019-12-31",
158         "Startdatum": "2019-07-01"
159     },
160     "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",

```

```

161     "UtbildningsPeriodFran": "2019-07-01",
162     "UtbildningsPeriodTill": "2019-12-31"
163 },
164 {
165     "Anpassat": false,
166     "Omfattningsvarde": "0.0",
167     "Periodbenamningar": {},
168     "PerioddeltagandeUID": "f9598cf9-3158-11ea-88ee-aa17e0384779",
169     "Periodindex": 12,
170     "Registreringsperiod": {
171         "Slutdatum": "2020-06-30",
172         "Startdatum": "2020-01-01"
173     },
174     "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
175     "UtbildningsPeriodFran": "2020-01-01",
176     "UtbildningsPeriodTill": "2020-06-30"
177 }
178 ],
179 "Sparrad": false,
180 "Studiestrukturreferens": "8d2faf86-73d9-11e8-b9fd-0a821ba7448e,null",
181 "SummeradGodkandOmfattning": "0.0",
182 "SummeradHeltTillgodoraknadOmfattning": "0.0",
183 "SummeradTillgodoraknadOmfattning": "0.0",
184 "TillstandKurs": {
185     "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.registrerad",
186     "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
187     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
188     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.paborjad"
189 },
190 "UId": "e2ba1cad-73db-11e8-b9fd-0a821ba7448e",
191 "Utbildningsinformation": {
192     "AntalPerioder": 12,
193     "Benamning": {
194         "sv": "Doktorsavhandling",
195         "en": "Doctoral thesis"
196     },
197     "Enhetskod": "HP",
198     "LarosateID": 29,
199     "PeriodIOrdning": "0",
200     "Perioder": [
201         {
202             "Index": 1,
203             "Omfattningsvarde": "0.0",
204             "Slutdatum": "2014-12-31",
205             "Startdatum": "2014-07-21",
206             "UId": "89a69d8d-73db-11e8-afa7-8e408e694e54"
207         },
208         {
209             "Index": 2,
210             "Omfattningsvarde": "0.0",
211             "Slutdatum": "2015-06-30",

```

```

212     "Startdatum": "2015-01-01",
213     "Uid": "89a69d8e-73db-11e8-afa7-8e408e694e54"
214 },
215 {
216     "Index": 3,
217     "Omfattningsvarde": "0.0",
218     "Slutdatum": "2015-12-31",
219     "Startdatum": "2015-07-01",
220     "Uid": "89a69d8f-73db-11e8-afa7-8e408e694e54"
221 },
222 {
223     "Index": 4,
224     "Omfattningsvarde": "0.0",
225     "Slutdatum": "2016-06-30",
226     "Startdatum": "2016-01-01",
227     "Uid": "89a69d90-73db-11e8-afa7-8e408e694e54"
228 },
229 {
230     "Index": 5,
231     "Omfattningsvarde": "0.0",
232     "Slutdatum": "2016-12-31",
233     "Startdatum": "2016-07-01",
234     "Uid": "89a69d91-73db-11e8-afa7-8e408e694e54"
235 },
236 {
237     "Index": 6,
238     "Omfattningsvarde": "0.0",
239     "Slutdatum": "2017-06-30",
240     "Startdatum": "2017-01-01",
241     "Uid": "89a69d92-73db-11e8-afa7-8e408e694e54"
242 },
243 {
244     "Index": 7,
245     "Omfattningsvarde": "0.0",
246     "Slutdatum": "2017-12-31",
247     "Startdatum": "2017-07-01",
248     "Uid": "89a69d93-73db-11e8-afa7-8e408e694e54"
249 },
250 {
251     "Index": 8,
252     "Omfattningsvarde": "0.0",
253     "Slutdatum": "2018-06-30",
254     "Startdatum": "2018-01-01",
255     "Uid": "89a69d94-73db-11e8-afa7-8e408e694e54"
256 },
257 {
258     "Index": 9,
259     "Omfattningsvarde": "0.0",
260     "Slutdatum": "2018-12-31",
261     "Startdatum": "2018-07-01",
262     "Uid": "1f28dff3-bfdd-11e8-8180-6b9d2e0d4d07"

```

```

263     },
264     {
265         "Index": 10,
266         "Omfattningsvarde": "0.0",
267         "Slutdatum": "2019-06-30",
268         "Startdatum": "2019-01-01",
269         "UId": "1f28dff4-bfdd-11e8-8180-6b9d2e0d4d07"
270     },
271     {
272         "Index": 11,
273         "Omfattningsvarde": "0.0",
274         "Slutdatum": "2019-12-31",
275         "Startdatum": "2019-07-01",
276         "UId": "9fb60ee3-b515-11e9-9999-748409b84dd2"
277     },
278     {
279         "Index": 12,
280         "Omfattningsvarde": "0.0",
281         "Slutdatum": "2020-06-30",
282         "Startdatum": "2020-01-01",
283         "UId": "f82ad0dd-3158-11ea-a989-1ea254964e91"
284     }
285 ],
286 "SarskildSekretessprovning": false,
287 "StudieordningID": "1",
288 "Studieperiod": {
289     "Slutdatum": "2020-06-30",
290     "Startdatum": "2014-07-21"
291 },
292 "UtbildningUID": "89a64ff2-73db-11e8-b4e0-063f9afb40e3",
293 "UtbildningsinstansUID": "89a67674-73db-11e8-afa7-8e408e694e54",
294 "UtbildningstillfalleUID": "89a64ff3-73db-11e8-b4e0-063f9afb40e3",
295 "Utbildningstillfallestyp": {
296     "Benamningar": {
297         "sv": "Tillfälle för forskningsarbete",
298         "en": "Research project instance"
299     },
300     "Giltighetsperiod": {},
301     "Grundtyp": "KURS",
302     "ID": 101953,
303     "Kod": "2007VFTF",
304     "RegelverkForUtbildningstyp": {
305         "Regelvarden": [
306             {
307                 "Regelnamn": "commons.domain.regel.individuell",
308                 "Varde": "true"
309             },
310             {
311                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
312                 "Varde": "true"
313             }

```



```

314         {
315             "Regelnamn": "commons.domain.regel.studieperiod.kan.laggas.till",
316             "Varde": "true"
317         },
318         {
319             "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
320             "Varde": "grupp.for.utsokning.forskarniva"
321         }
322     ],
323 },
324     "Sjalvstandig": false
325 },
326     "Utbildningstyp": {
327         "Benamningar": {
328             "sv": "Forskningsarbete (utan angiven omfattning)",
329             "en": "Research project (scope not specified)"
330         },
331         "Giltighetsperiod": {},
332         "Grundtyp": "KURS",
333         "ID": 110915,
334         "Kod": "2007VFUO",
335         "RegelverkForUtbildningstyp": {
336             "Regelvarde": [
337                 {
338                     "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
339                     "Varde": "true"
340                 },
341                 {
342                     "Regelnamn": "commons.domain.regel.ej.angiven.omfattning",
343                     "Varde": "true"
344                 },
345                 {
346                     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
347                     "Varde": "grupp.for.utsokning.forskarniva"
348                 }
349             ]
350         },
351         "Sjalvstandig": true
352     },
353     "Utbildningsversion": 1
354 }
355 },
356 {
357     "Aterbud": false,
358     "Avklarad": true,
359     "Godkannandedatum": "2015-07-03",
360     "HarTillgodoraknande": false,
361     "LarosateID": 29,
362     "Nuvarande": true,
363     "Paborjad": true,
364     "Perioddeltaganden": [

```

```

365     {
366         "Anpassat": false,
367         "Omfattningsvarde": "7.5",
368         "Periodbenamningar": {},
369         "PerioddeltagandeUID": "6a75aa0e-73de-11e8-b9fd-0a821ba7448e",
370         "Periodindex": 1,
371         "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
372         "UtbildningsPeriodFran": "2015-07-01",
373         "UtbildningsPeriodTill": "2015-12-31"
374     }
375 ],
376 "Sparrad": false,
377 "Studiestrukturreferens": "8d2faf86-73d9-11e8-b9fd-0a821ba7448e,null",
378 "SummeradGodkandOmfattning": "7.5",
379 "SummeradHeltTillgodoraknadOmfattning": "0.0",
380 "SummeradTillgodoraknadOmfattning": "0.0",
381 "TillstandKurs": {
382     "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
383     "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
384     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
385     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
386 },
387 "Uid": "6a75aa0d-73de-11e8-b9fd-0a821ba7448e",
388 "Utbildningsinformation": {
389     "AntalPerioder": 1,
390     "Benamning": {
391         "sv": "Forskning: teori, metod, praktik",
392         "en": "Research: Theory, Method, Practice"
393     },
394     "Enhetskod": "HP",
395     "LarosateID": 29,
396     "Omfattningsvarde": "7.5",
397     "PeriodIOrdning": "0",
398     "Perioder": [
399         {
400             "Index": 1,
401             "Omfattningsvarde": "7.5",
402             "Slutdatum": "2015-12-31",
403             "Startdatum": "2015-07-01",
404             "Uid": "5b33f7fb-73d9-11e8-afa7-8e408e694e54"
405         }
406     ],
407     "SarskildSekretessprovning": false,
408     "StudieordningID": "1",
409     "Studieperiod": {
410         "Slutdatum": "2015-12-31",
411         "Startdatum": "2015-07-01"
412     },
413     "UtbildningUID": "98f1e5b6-73d8-11e8-afa7-8e408e694e54",
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436                     "Varde": "grupp.for.utsokning.forskarniva"
437                 }
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494         },
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497         "UtbildningsPeriodTill": "2015-12-31"
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684         "Benamningar": {
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686             "en": "Normal teaching"
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786     "en": "Programming Technique"
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834             "en": "Normal teaching"
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937     "FinansieringsformID": 101050,
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975             "en": "Full-time"
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977     "Takt": 100
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980     "Benamningar": {
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982         "en": "Normal teaching"
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988 "UtbildningensOmfattningsvarde": "12.0",
989 "UtbildningsinstansUID": "fdf27bac-73d7-11e8-b4e0-063f9afb40e3",
990 "Utbildningskod": "5B1123",
991 "UtbildningstillfalleUID": "fe150cf6-73d9-11e8-b4e0-063f9afb40e3",
992 "Utbildningstillfalleskod": "Y0013",
993 "Utbildningstillfallestyp": {
994     "Benamningar": {
995         "sv": "Kurstillfälle, grundutbildning",
996         "en": "Course instance, Undergraduate"
997     },
998     "Giltighetsperiod": {},
999     "Grundtyp": "KURS",
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1001     "Kod": "1993GKTF",
1002     "RegelverkForUtbildningstyp": {
1003         "Regelvarde": [
1004             {
1005                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
1006                 "Varde": "true"
1007             },
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1010                 "Varde": "grupp.for.utsokning.grundavanceradniva"
1011             }
1012         ]
1013     },
1014     "Sjalvstandig": false
1015 },
1016 "Utbildningstyp": {
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1018         "sv": "Kurs, grundutbildning",
1019         "en": "Course, Undergraduate"
1020     },
1021     "Giltighetsperiod": {},
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1023     "ID": 101370,
1024     "Kod": "1993GKURS",
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1026         "Regelvarde": [
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1033         "Varde": "20"
1034     },
1035     {
1036         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1037         "Varde": "grupp.for.utsokning.grundavanceradniva"
1038     }
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1044 }
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1050     "HarTillgodoraknande": true,
1051     "LarosateID": 29,
1052     "Nuvarande": true,
1053     "Paborjad": true,
1054     "Perioddeltaganden": [
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1057             "Omfattningsvarde": "13.5",
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1061             "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
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1063             "UtbildningsPeriodTill": "2007-01-16"
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1066             "Anpassat": false,
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1071             "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
1072             "UtbildningsPeriodFran": "2007-01-17",
1073             "UtbildningsPeriodTill": "2007-05-28"
1074         }
1075     ],
1076     "Sparrad": false,
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1082         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
1083         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
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1085         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
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1092             "en": "Mathematics I"
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1094         "Enhetskod": "HP-K",
1095         "FinansieringsformID": 101050,
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1098         "PeriodIOrdning": "0",
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1105                 "UId": "fe60e3a1-73d9-11e8-afa7-8e408e694e54"
1106             },
1107             {
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1112                 "UId": "fe60e3a2-73d9-11e8-afa7-8e408e694e54"
1113             }
1114         ],
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1118             "en": "Stockholm"
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1121             "Benamningar": {
1122                 "sv": "Stockholm",
1123                 "en": "Stockholm"
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1140         "en": "Full-time"
1141     },
1142     "Takt": 100
1143 },
1144 "Undervisningsform": {
1145     "Benamningar": {
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1147         "en": "Normal teaching"
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1155 "Utbildningskod": "5B1143",
1156 "UtbildningstillfalleUID": "fe60955b-73d9-11e8-b4e0-063f9afb40e3",
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1162     },
1163     "Giltighetsperiod": {},
1164     "Grundtyp": "KURS",
1165     "ID": 101374,
1166     "Kod": "1993GKTF",
1167     "RegelverkForUtbildningstyp": {
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1171                 "Varde": "true"
1172             },
1173             {
1174                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1175                 "Varde": "grupp.for.utsokning.grundavanceradniva"
1176             }
1177         ]
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1180 },

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1203           }
1204         ]
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1207     },
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1210 },
1211 {
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1217   "Paborjad": true,
1218   "Perioddeltaganden": [
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1225       "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
1226       "UtbildningsPeriodFran": "2005-01-17",
1227       "UtbildningsPeriodTill": "2005-06-04"
1228     }
1229   ],
1230   "Sparrad": false,
1231   "SummeradGodkandOmfattning": "0.0",

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1236   "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
1237   "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
1238   "Utbildning": "studiedeltagande.domain.tillstandsdefinition.paborjad"
1239 },
1240 "Uid": "98ac0471-73f2-11e8-b9fd-0a821ba7448e",
1241 "Utbildningsinformation": {
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1243   "Benamning": {
1244     "sv": "Förberedande repetitionskurs i matematik",
1245     "en": "Preparatory Course in Mathematics"
1246   },
1247   "Enhetskod": "HP-K",
1248   "FinansieringsformID": 131711,
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1257       "Startdatum": "2005-01-17",
1258       "Uid": "fe650266-73d9-11e8-afa7-8e408e694e54"
1259     }
1260   ],
1261   "SarskildSekretessprovning": false,
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1264     "en": "Stockholm"
1265   },
1266   "Studielokaliseringrepresentation": {
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1268       "sv": "Stockholm",
1269       "en": "Stockholm"
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1274     },
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1276     "Kod": "0180"
1277   },
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1279   "Studieperiod": {
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1281     "Startdatum": "2005-01-17"
1282   },

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1288         "Takt": 100
1289     },
1290     "Undervisningsform": {
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1293             "en": "Distance learning"
1294         },
1295         "Giltighetsperiod": {},
1296         "ID": 2
1297     },
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1300     "UtbildningsinstansUID": "fe1d5c99-73d7-11e8-b4e0-063f9afb40e3",
1301     "Utbildningskod": "5B1144",
1302     "UtbildningstillfalleUID": "fe64b40d-73d9-11e8-b4e0-063f9afb40e3",
1303     "Utbildningstillfalleskod": "Y0127",
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1317                     "Varde": "true"
1318                 },
1319                 {
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1321                     "Varde": "grupp.for.utsokning.grundavanceradniva"
1322                 }
1323             ]
1324         },
1325         "Sjalvstandig": false
1326     },
1327     "Utbildningstyp": {
1328         "Benamningar": {
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1330             "en": "Course, Undergraduate"
1331         },
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1341             },
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1344                 "Varde": "20"
1345             },
1346             {
1347                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1348                 "Varde": "grupp.for.utsokning.grundavanceradniva"
1349             }
1350         ]
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1364     "Paborjad": true,
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1374             "UtbildningsPeriodTill": "2006-05-30"
1375         }
1376     ],
1377     "Sparrad": false,
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1379     "SummeradHeltTillgodoraknadOmfattning": "0.0",
1380     "SummeradTillgodoraknadOmfattning": "0.0",
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1383         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.omregistrerad",
1384         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",

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1392         "en": "Preparatory Course in Mathematics"
1393     },
1394     "Enhetskod": "HP-K",
1395     "LarosateID": 29,
1396     "Omfattningsvarde": "4.5",
1397     "PeriodIOrdning": "0",
1398     "Perioder": [
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1403             "Startdatum": "2006-01-18",
1404             "Uid": "f2218d47-73da-11e8-afa7-8e408e694e54"
1405         }
1406     ],
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1426         "ID": 101374,
1427         "Kod": "1993GKTF",
1428         "RegelverkForUtbildningstyp": {
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1432                     "Varde": "true"
1433                 },
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1438 ]
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1440 "Sjalvstandig": false
1441 },
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1445         "en": "Course, Undergraduate"
1446     },
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1449     "ID": 101370,
1450     "Kod": "1993GKURS",
1451     "RegelverkForUtbildningstyp": {
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1457             {
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1460             },
1461             {
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1463                 "Varde": "grupp.for.utsokning.grundavanceradniva"
1464             }
1465         ]
1466     },
1467     "Sjalvstandig": true
1468 },
1469 "Utbildningsversion": 1
1470 }
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1476     "LarosateID": 29,
1477     "Nuvarande": false,
1478     "Paborjad": true,
1479     "Perioddeltaganden": [
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1494 "SummeradTillgodoraknadOmfattning": "0.0",
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1496     "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.registrerad",
1497     "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
1498     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
1499     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.paborjad"
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1502 "Utbildningsinformation": {
1503     "AntalPerioder": 1,
1504     "Benamning": {
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1506         "en": "Extended Preparation Course in Mathematics"
1507     },
1508     "Enhetskod": "HP-K",
1509     "FinansieringsformID": 131711,
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1518             "Startdatum": "2005-01-17",
1519             "Uid": "fe73a7dc-73d9-11e8-afa7-8e408e694e54"
1520         }
1521     ],
1522     "SarskildSekretessprovning": false,
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1525         "en": "Stockholm"
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1527     "Studielokaliseringrepresentation": {
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1530             "en": "Stockholm"
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1534             "Startdatum": "1917-10-19"
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1547     "en": "Full-time"
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1549   "Takt": 100
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1563 "UtbildningstillfalleUID": "fe735a24-73d9-11e8-b4e0-063f9afb40e3",
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1568     "en": "Course instance, Undergraduate"
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1573   "Kod": "1993GKTF",
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1591       "en": "Course, Undergraduate"
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1606         },
1607         {
1608           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1609           "Varde": "grupp.for.utsokning.grundavanceradniva"
1610         }
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1637   ],
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1644   "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.omregistrerad",
1645   "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
1646   "Utbildning": "studiedeltagande.domain.tillstandsdefinition.paborjad"
1647 },
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1649 "Utbildningsinformation": {
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1653     "en": "Extended Preparation Course in Mathematics"
1654   },
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1676   "UtbildningsinstansUID": "fe1f315b-73d7-11e8-b4e0-063f9afb40e3",
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1685     "Giltighetsperiod": {},
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1687     "ID": 101374,
1688     "Kod": "1993GKTF",
1689     "RegelverkForUtbildningstyp": {
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1698     }
1699   ]
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1721       },
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1725       }
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1761     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
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1836     "Kod": "1993GKTF",
1837     "RegelverkForUtbildningstyp": {
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1841                 "Varde": "true"
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1909   "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
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1958         "en": "Full-time"
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1965         "en": "Normal teaching"
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2014         "en": "Course, First-cycle"
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2025             },
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2064     "Paborjad": true,
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2067         "Anpassat": false,
2068         "Omfattningsvarde": "6.0",
2069         "Periodbenamningar": {},
2070         "PerioddeltagandeUID": "98ef27cf-73f2-11e8-b9fd-0a821ba7448e",
2071         "Periodindex": 1,
2072         "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
2073         "UtbildningsPeriodFran": "2009-01-12",
2074         "UtbildningsPeriodTill": "2009-05-27"
2075     }
2076 ],
2077     "Sparrad": false,
2078     "Studiestruktureferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
2079     "SummeradGodkandOmfattning": "6.0",
2080     "SummeradHeltTillgodoraknadOmfattning": "0.0",
2081     "SummeradTillgodoraknadOmfattning": "0.0",
2082     "TillstandKurs": {
2083         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
2084         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
2085         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
2086         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
2087     },
2088     "Uid": "98eeb290-73f2-11e8-b9fd-0a821ba7448e",
2089     "Utbildningsinformation": {
2090         "AntalPerioder": 1,
2091         "Benamning": {
2092             "sv": "Databasteknik",
2093             "en": "Database Technology"
2094         },
2095         "Enhetskod": "HP",
2096         "FinansieringsformID": 101050,
2097         "LarosateID": 29,
2098         "Omfattningsvarde": "6.0",

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2105             "Startdatum": "2009-01-12",
2106             "Uid": "77a002c7-73da-11e8-afa7-8e408e694e54"
2107         }
2108     ],
2109     "SarskildSekretessprovning": false,
2110     "Studielokalisering": {
2111         "sv": "Stockholm",
2112         "en": "Stockholm"
2113     },
2114     "Studielokaliseringrepresentation": {
2115         "Benamningar": {
2116             "sv": "Stockholm",
2117             "en": "Stockholm"
2118         },
2119         "Giltighetsperiod": {
2120             "Slutdatum": "2019-01-14",
2121             "Startdatum": "1917-10-19"
2122         },
2123         "ID": 131778,
2124         "Kod": "0180"
2125     },
2126     "StudieordningID": "1",
2127     "Studieperiod": {
2128         "Slutdatum": "2009-05-27",
2129         "Startdatum": "2009-01-12"
2130     },
2131     "Studietakt": {
2132         "Benamning": {
2133             "sv": "Helfart",
2134             "en": "Full-time"
2135         },
2136         "Takt": 100
2137     },
2138     "Undervisningsform": {
2139         "Benamningar": {
2140             "sv": "Normal",
2141             "en": "Normal teaching"
2142         },
2143         "Giltighetsperiod": {},
2144         "ID": 1
2145     },
2146     "UtbildningUID": "38cd51a2-73d8-11e8-afa7-8e408e694e54",
2147     "UtbildningensOmfattningsvarde": "6.0",
2148     "UtbildningsinstansUID": "38c00b22-73d8-11e8-b4e0-063f9afb40e3",
2149     "Utbildningskod": "DD1334",

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2151 "Utbildningstillfalleskod": "60243",
2152 "Utbildningstillfallestyp": {
2153   "Benamningar": {
2154     "sv": "Kurstillfälle",
2155     "en": "Course instance"
2156   },
2157   "Giltighetsperiod": {},
2158   "Grundtyp": "KURS",
2159   "ID": 52,
2160   "Kod": "2007KTF",
2161   "RegelverkForUtbildningstyp": {
2162     "Regelvarden": [
2163       {
2164         "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
2165         "Varde": "true"
2166       },
2167       {
2168         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2169         "Varde": "true"
2170       },
2171       {
2172         "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
2173         "Varde": "varning"
2174       },
2175       {
2176         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2177         "Varde": "grupp.for.utsokning.grundavanceradniva"
2178       },
2179       {
2180         "Regelnamn": "commons.domain.regel.kan.utannonseras",
2181         "Varde": "true"
2182       }
2183     ]
2184   },
2185   "Sjalvstandig": false
2186 },
2187 "Utbildningstyp": {
2188   "Benamningar": {
2189     "sv": "Kurs, grundnivå",
2190     "en": "Course, First-cycle"
2191   },
2192   "Giltighetsperiod": {},
2193   "Grundtyp": "KURS",
2194   "ID": 22,
2195   "Kod": "2007GKURS",
2196   "RegelverkForUtbildningstyp": {
2197     "Regelvarden": [
2198       {
2199         "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
2200         "Varde": "true"
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2201     },
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2204       "Varde": "grupp.for.utsokning.grundavanceradniva"
2205     },
2206     {
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2208       "Varde": "true"
2209     },
2210     {
2211       "Regelnamn": "commons.domain.regel.avbrottsregel",
2212       "Varde": "20"
2213     },
2214     {
2215       "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2216       "Varde": "true"
2217     },
2218     {
2219       "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
2220       "Varde": "true"
2221     },
2222     {
2223       "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
2224       "Varde": "true"
2225     }
2226   ]
2227 },
2228 "Sj Alvstandig": true
2229 },
2230 "Utbildningsversion": 1
2231 }
2232 },
2233 {
2234   "Aterbud": false,
2235   "Avklarad": false,
2236   "HarTillgodoraknande": false,
2237   "LarosateID": 29,
2238   "Nuvarande": true,
2239   "Paborjad": true,
2240   "Perioddeltaganden": [
2241     {
2242       "Anpassat": false,
2243       "Omfattningsvarde": "7.5",
2244       "Periodbenamningar": {},
2245       "PerioddeltagandeUID": "98f8c4b0-73f2-11e8-b9fd-0a821ba7448e",
2246       "Periodindex": 1,
2247       "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
2248       "UtbildningsPeriodFran": "2008-08-29",
2249       "UtbildningsPeriodTill": "2009-01-10"
2250     }
2251   ],

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2252     "Sparrad": false,
2253     "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
2254     "SummeradGodkandOmfattning": "3.0",
2255     "SummeradHeltTillgodoraknadOmfattning": "0.0",
2256     "SummeradTillgodoraknadOmfattning": "0.0",
2257     "TillstandKurs": {
2258       "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.registrerad",
2259       "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
2260       "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
2261       "Utbildning": "studiedeltagande.domain.tillstandsdefinition.paborjad"
2262     },
2263     "UId": "98f8768b-73f2-11e8-b9fd-0a821ba7448e",
2264     "Utbildningsinformation": {
2265       "AntalPerioder": 1,
2266       "Benamning": {
2267         "sv": "Programmeringsparadigm",
2268         "en": "Programming Paradigms"
2269       },
2270       "Enhetskod": "HP",
2271       "FinansieringsformID": 101050,
2272       "LarosateID": 29,
2273       "Omfattningsvarde": "7.5",
2274       "PeriodIOrdning": "0",
2275       "Perioder": [
2276         {
2277           "Index": 1,
2278           "Omfattningsvarde": "7.5",
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2280           "Startdatum": "2008-08-29",
2281           "UId": "7813faec-73da-11e8-afa7-8e408e694e54"
2282         }
2283       ],
2284       "SarskildSekretessprovning": false,
2285       "Studielokalisering": {
2286         "sv": "Stockholm",
2287         "en": "Stockholm"
2288       },
2289       "Studielokaliseringrepresentation": {
2290         "Benamningar": {
2291           "sv": "Stockholm",
2292           "en": "Stockholm"
2293         },
2294         "Giltighetsperiod": {
2295           "Slutdatum": "2019-01-14",
2296           "Startdatum": "1917-10-19"
2297         },
2298         "ID": 131778,
2299         "Kod": "0180"
2300       },
2301       "StudieordningID": "1",
2302       "Studieperiod": {

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2303     "Slutdatum": "2009-01-10",
2304     "Startdatum": "2008-08-29"
2305 },
2306 "Studietakt": {
2307     "Benamning": {
2308         "sv": "Helfart",
2309         "en": "Full-time"
2310     },
2311     "Takt": 100
2312 },
2313 "Undervisningsform": {
2314     "Benamningar": {
2315         "sv": "Normal",
2316         "en": "Normal teaching"
2317     },
2318     "Giltighetsperiod": {},
2319     "ID": 1
2320 },
2321 "UtbildningUID": "39111148-73d8-11e8-afa7-8e408e694e54",
2322 "UtbildningensOmfattningsvarde": "7.5",
2323 "UtbildningsinstansUID": "38fec21a-73d8-11e8-b4e0-063f9afb40e3",
2324 "Utbildningskod": "DD1361",
2325 "UtbildningstillfalleUID": "781385bf-73da-11e8-b4e0-063f9afb40e3",
2326 "Utbildningstillfalleskod": "51003",
2327 "Utbildningstillfallestyp": {
2328     "Benamningar": {
2329         "sv": "Kurstillfälle",
2330         "en": "Course instance"
2331     },
2332     "Giltighetsperiod": {},
2333     "Grundtyp": "KURS",
2334     "ID": 52,
2335     "Kod": "2007KTF",
2336     "RegelverkForUtbildningstyp": {
2337         "Regelvarden": [
2338             {
2339                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
2340                 "Varde": "true"
2341             },
2342             {
2343                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2344                 "Varde": "true"
2345             },
2346             {
2347                 "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
2348                 "Varde": "varning"
2349             },
2350             {
2351                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2352                 "Varde": "grupp.for.utsokning.grundavanceradniva"
2353             }

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2354         {
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2356             "Varde": "true"
2357         }
2358     ],
2359 },
2360 "Sjalvstandig": false
2361 },
2362 "Utbildningstyp": {
2363     "Benamningar": {
2364         "sv": "Kurs, grundnivå",
2365         "en": "Course, First-cycle"
2366     },
2367     "Giltighetsperiod": {},
2368     "Grundtyp": "KURS",
2369     "ID": 22,
2370     "Kod": "2007GKURS",
2371     "RegelverkForUtbildningstyp": {
2372         "Regelvarde": [
2373             {
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2375                 "Varde": "true"
2376             },
2377             {
2378                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2379                 "Varde": "grupp.for.utsokning.grundavanceradniva"
2380             },
2381             {
2382                 "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
2383                 "Varde": "true"
2384             },
2385             {
2386                 "Regelnamn": "commons.domain.regel.avbrottsregel",
2387                 "Varde": "20"
2388             },
2389             {
2390                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2391                 "Varde": "true"
2392             },
2393             {
2394                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
2395                 "Varde": "true"
2396             },
2397             {
2398                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
2399                 "Varde": "true"
2400             }
2401         ]
2402     },
2403     "Sjalvstandig": true
2404 },

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2407 },
2408 {
2409   "Aterbud": false,
2410   "Avklarad": false,
2411   "HarTillgodoraknande": false,
2412   "LarosateID": 29,
2413   "Nuvarande": true,
2414   "Paborjad": true,
2415   "Perioddeltaganden": [
2416     {
2417       "Anpassat": false,
2418       "Omfattningsvarde": "6.0",
2419       "Periodbenamningar": {},
2420       "PerioddeltagandeUID": "99056efc-73f2-11e8-b9fd-0a821ba7448e",
2421       "Periodindex": 1,
2422       "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
2423       "UtbildningsPeriodFran": "2010-08-27",
2424       "UtbildningsPeriodTill": "2011-01-07"
2425     }
2426   ],
2427   "Sparrad": false,
2428   "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
2429   "SummeradGodkandOmfattning": "0.0",
2430   "SummeradHeltTillgodoraknadOmfattning": "0.0",
2431   "SummeradTillgodoraknadOmfattning": "0.0",
2432   "TillstandKurs": {
2433     "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.registrerad",
2434     "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
2435     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
2436     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.paborjad"
2437   },
2438   "Uid": "99056ef6-73f2-11e8-b9fd-0a821ba7448e",
2439   "Utbildningsinformation": {
2440     "AntalPerioder": 1,
2441     "Benamning": {
2442       "sv": "Algoritmer och komplexitet",
2443       "en": "Algorithms and Complexity"
2444     },
2445     "Enhetskod": "HP",
2446     "FinansieringsformID": 101050,
2447     "LarosateID": 29,
2448     "Omfattningsvarde": "6.0",
2449     "PeriodIOrdning": "0",
2450     "Perioder": [
2451       {
2452         "Index": 1,
2453         "Omfattningsvarde": "6.0",
2454         "Slutdatum": "2011-01-07",
2455         "Startdatum": "2010-08-27",

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2456         "Uid": "794a574e-73da-11e8-afa7-8e408e694e54"
2457     }
2458 ],
2459 "SarskildSekretessprovning": false,
2460 "Studielokalisering": {
2461     "sv": "Stockholm",
2462     "en": "Stockholm"
2463 },
2464 "Studielokaliseringrepresentation": {
2465     "Benamningar": {
2466         "sv": "Stockholm",
2467         "en": "Stockholm"
2468     },
2469     "Giltighetsperiod": {
2470         "Slutdatum": "2019-01-14",
2471         "Startdatum": "1917-10-19"
2472     },
2473     "ID": 131778,
2474     "Kod": "0180"
2475 },
2476 "StudieordningID": "1",
2477 "Studieperiod": {
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2479     "Startdatum": "2010-08-27"
2480 },
2481 "Studietakt": {
2482     "Benamning": {
2483         "sv": "Helfart",
2484         "en": "Full-time"
2485     },
2486     "Takt": 100
2487 },
2488 "Undervisningsform": {
2489     "Benamningar": {
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2491         "en": "Normal teaching"
2492     },
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2497 "UtbildningensOmfattningsvarde": "6.0",
2498 "UtbildningsinstansUID": "3981d461-73d8-11e8-b4e0-063f9afb40e3",
2499 "Utbildningskod": "DD2354",
2500 "UtbildningstillfalleUID": "794a09c3-73da-11e8-b4e0-063f9afb40e3",
2501 "Utbildningstillfalleskod": "X0104",
2502 "Utbildningstillfallestyp": {
2503     "Benamningar": {
2504         "sv": "Kurstillfälle",
2505         "en": "Course instance"
2506     },

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2509     "ID": 52,
2510     "Kod": "2007KTF",
2511     "RegelverkForUtbildningstyp": {
2512       "Regelvarden": [
2513         {
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2515           "Varde": "true"
2516         },
2517         {
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2519           "Varde": "true"
2520         },
2521         {
2522           "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
2523           "Varde": "varning"
2524         },
2525         {
2526           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2527           "Varde": "grupp.for.utsokning.grundavanceradniva"
2528         },
2529         {
2530           "Regelnamn": "commons.domain.regel.kan.utannonseras",
2531           "Varde": "true"
2532         }
2533       ]
2534     },
2535     "Sjalvstandig": false
2536   },
2537   "Utbildningstyp": {
2538     "Benamningar": {
2539       "sv": "Kurs, avancerad nivå",
2540       "en": "Course, Second-cycle"
2541     },
2542     "Giltighetsperiod": {},
2543     "Grundtyp": "KURS",
2544     "ID": 24,
2545     "Kod": "2007AKURS",
2546     "RegelverkForUtbildningstyp": {
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2548         {
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2550           "Varde": "true"
2551         },
2552         {
2553           "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
2554           "Varde": "true"
2555         },
2556         {
2557           "Regelnamn": "commons.domain.regel.avbrottsregel",

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2558         "Varde": "20"
2559     },
2560     {
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2564     {
2565         "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
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2567     },
2568     {
2569         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2570         "Varde": "grupp.for.utsokning.grundavanceradniva"
2571     },
2572     {
2573         "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
2574         "Varde": "true"
2575     }
2576 ]
2577 },
2578 "Själavstandig": true
2579 },
2580 "Utbildningsversion": 1
2581 }
2582 },
2583 {
2584     "Aterbud": false,
2585     "Avklarad": true,
2586     "Godkannandedatum": "2008-04-04",
2587     "HarTillgodoraknande": false,
2588     "LarosateID": 29,
2589     "Nuvarande": true,
2590     "Paborjad": true,
2591     "Perioddeltaganden": [
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2593             "Anpassat": false,
2594             "Omfattningsvarde": "7.5",
2595             "Periodbenamningar": {},
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2597             "Periodindex": 1,
2598             "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
2599             "UtbildningsPeriodFran": "2008-01-14",
2600             "UtbildningsPeriodTill": "2008-05-26"
2601         }
2602     ],
2603     "Sparrad": false,
2604     "Studiestrukturereferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448",
2605     "SummeradGodkandOmfattning": "7.5",
2606     "SummeradHeltTillgodoraknadOmfattning": "0.0",
2607     "SummeradTillgodoraknadOmfattning": "0.0",
2608     "TillstandKurs": {

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2609     "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
2610     "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
2611     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
2612     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
2613 },
2614 "Uid": "9916866c-73f2-11e8-b9fd-0a821ba7448e",
2615 "Utbildningsinformation": {
2616     "AntalPerioder": 1,
2617     "Benamning": {
2618         "sv": "Maskinnära programmering och datorarkitektur",
2619         "en": "Low Level Programming and Computer Architecture"
2620     },
2621     "Enhetskod": "HP",
2622     "FinansieringsformID": 101050,
2623     "LarosateID": 29,
2624     "Omfattningsvarde": "7.5",
2625     "PeriodIOrdning": "0",
2626     "Perioder": [
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2629             "Omfattningsvarde": "7.5",
2630             "Slutdatum": "2008-05-26",
2631             "Startdatum": "2008-01-14",
2632             "Uid": "795d6a06-73da-11e8-afa7-8e408e694e54"
2633         }
2634     ],
2635     "SarskildSekretessprovning": false,
2636     "Studielokalisering": {
2637         "sv": "Stockholm",
2638         "en": "Stockholm"
2639     },
2640     "Studielokaliseringrepresentation": {
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2643             "en": "Stockholm"
2644         },
2645         "Giltighetsperiod": {
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2647             "Startdatum": "1917-10-19"
2648         },
2649         "ID": 131778,
2650         "Kod": "0180"
2651     },
2652     "StudieordningID": "1",
2653     "Studieperiod": {
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2655         "Startdatum": "2008-01-14"
2656     },
2657     "Studietakt": {
2658         "Benamning": {
2659             "sv": "Helfart",
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2660     "en": "Full-time"
2661   },
2662   "Takt": 100
2663 },
2664 "Undervisningsform": {
2665   "Benamningar": {
2666     "sv": "Normal",
2667     "en": "Normal teaching"
2668   },
2669   "Giltighetsperiod": {},
2670   "ID": 1
2671 },
2672 "UtbildningUID": "39aba39c-73d8-11e8-afa7-8e408e694e54",
2673 "UtbildningensOmfattningsvarde": "7.5",
2674 "UtbildningsinstansUID": "399d99ec-73d8-11e8-b4e0-063f9afb40e3",
2675 "Utbildningskod": "DD2377",
2676 "UtbildningstillfalleUID": "795cf5a4-73da-11e8-b4e0-063f9afb40e3",
2677 "Utbildningstillfalleskod": "DD030",
2678 "Utbildningstillfallestyp": {
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2680     "sv": "Kurstillfälle",
2681     "en": "Course instance"
2682   },
2683   "Giltighetsperiod": {},
2684   "Grundtyp": "KURS",
2685   "ID": 52,
2686   "Kod": "2007KTF",
2687   "RegelverkForUtbildningstyp": {
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2691         "Varde": "true"
2692       },
2693       {
2694         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2695         "Varde": "true"
2696       },
2697       {
2698         "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
2699         "Varde": "varning"
2700       },
2701       {
2702         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2703         "Varde": "grupp.for.utsokning.grundavanceradniva"
2704       },
2705       {
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2707         "Varde": "true"
2708       }
2709     ]
2710   },

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2711     "Sjalvstandig": false
2712 },
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2715         "sv": "Kurs, avancerad nivå",
2716         "en": "Course, Second-cycle"
2717     },
2718     "Giltighetsperiod": {},
2719     "Grundtyp": "KURS",
2720     "ID": 24,
2721     "Kod": "2007AKURS",
2722     "RegelverkForUtbildningstyp": {
2723         "Regelvarden": [
2724             {
2725                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2726                 "Varde": "true"
2727             },
2728             {
2729                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
2730                 "Varde": "true"
2731             },
2732             {
2733                 "Regelnamn": "commons.domain.regel.avbrottsregel",
2734                 "Varde": "20"
2735             },
2736             {
2737                 "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
2738                 "Varde": "true"
2739             },
2740             {
2741                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
2742                 "Varde": "true"
2743             },
2744             {
2745                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2746                 "Varde": "grupp.for.utsokning.grundavanceradniva"
2747             },
2748             {
2749                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
2750                 "Varde": "true"
2751             }
2752         ]
2753     },
2754     "Sjalvstandig": true
2755 },
2756 "Utbildningsversion": 1
2757 }
2758 },
2759 {
2760     "Aterbud": false,
2761     "Avklarad": false,

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2763     "LarosateID": 29,
2764     "Nuvarande": true,
2765     "Paborjad": true,
2766     "Perioddeltaganden": [
2767       {
2768         "Anpassat": false,
2769         "Omfattningsvarde": "6.0",
2770         "Periodbenamningar": {},
2771         "PerioddeltagandeUID": "991f5f8f-73f2-11e8-b9fd-0a821ba7448e",
2772         "Periodindex": 1,
2773         "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
2774         "UtbildningsPeriodFran": "2009-08-28",
2775         "UtbildningsPeriodTill": "2009-10-25"
2776       }
2777     ],
2778     "Sparrad": false,
2779     "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
2780     "SummeradGodkandOmfattning": "0.0",
2781     "SummeradHeltTillgodoraknadOmfattning": "0.0",
2782     "SummeradTillgodoraknadOmfattning": "0.0",
2783     "TillstandKurs": {
2784       "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.registrerad",
2785       "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
2786       "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
2787       "Utbildning": "studiedeltagande.domain.tillstandsdefinition.paborjad"
2788     },
2789     "Uid": "991f387c-73f2-11e8-b9fd-0a821ba7448e",
2790     "Utbildningsinformation": {
2791       "AntalPerioder": 1,
2792       "Benamning": {
2793         "sv": "Artificiell intelligens",
2794         "en": "Artificial Intelligence"
2795       },
2796       "Enhetskod": "HP",
2797       "FinansieringsformID": 101050,
2798       "LarosateID": 29,
2799       "Omfattningsvarde": "6.0",
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2801       "Perioder": [
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2803           "Index": 1,
2804           "Omfattningsvarde": "6.0",
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2806           "Startdatum": "2009-08-28",
2807           "Uid": "796161c6-73da-11e8-afa7-8e408e694e54"
2808         }
2809       ],
2810       "SarskildSekretessprovning": false,
2811       "Studielokalisering": {
2812         "sv": "Stockholm",

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2813     "en": "Stockholm"
2814 },
2815 "Studielokaliseringrepresentation": {
2816     "Benamningar": {
2817         "sv": "Stockholm",
2818         "en": "Stockholm"
2819     },
2820     "Giltighetsperiod": {
2821         "Slutdatum": "2019-01-14",
2822         "Startdatum": "1917-10-19"
2823     },
2824     "ID": 131778,
2825     "Kod": "0180"
2826 },
2827 "StudieordningID": "1",
2828 "Studieperiod": {
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2832 "Studietakt": {
2833     "Benamning": {
2834         "sv": "Helfart",
2835         "en": "Full-time"
2836     },
2837     "Takt": 100
2838 },
2839 "Undervisningsform": {
2840     "Benamningar": {
2841         "sv": "Normal",
2842         "en": "Normal teaching"
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2850 "Utbildningskod": "DD2380",
2851 "UtbildningstillfalleUID": "79613b68-73da-11e8-b4e0-063f9afb40e3",
2852 "Utbildningstillfalleskod": "70325",
2853 "Utbildningstillfallestyp": {
2854     "Benamningar": {
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2856         "en": "Course instance"
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2858     "Giltighetsperiod": {},
2859     "Grundtyp": "KURS",
2860     "ID": 52,
2861     "Kod": "2007KTF",
2862     "RegelverkForUtbildningstyp": {
2863         "Regelvarden": [

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2866         "Varde": "true"
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2869         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2870         "Varde": "true"
2871     },
2872     {
2873         "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
2874         "Varde": "varning"
2875     },
2876     {
2877         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2878         "Varde": "grupp.for.utsokning.grundavanceradniva"
2879     },
2880     {
2881         "Regelnamn": "commons.domain.regel.kan.utannonseras",
2882         "Varde": "true"
2883     }
2884 ]
2885 },
2886 "Själavstandig": false
2887 },
2888 "Utbildningstyp": {
2889     "Benamningar": {
2890         "sv": "Kurs, avancerad nivå",
2891         "en": "Course, Second-cycle"
2892     },
2893     "Giltighetsperiod": {},
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2895     "ID": 24,
2896     "Kod": "2007AKURS",
2897     "RegelverkForUtbildningstyp": {
2898         "Regelvarden": [
2899             {
2900                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2901                 "Varde": "true"
2902             },
2903             {
2904                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
2905                 "Varde": "true"
2906             },
2907             {
2908                 "Regelnamn": "commons.domain.regel.avbrottsregel",
2909                 "Varde": "20"
2910             },
2911             {
2912                 "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
2913                 "Varde": "true"
2914             },

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2915         {
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2917             "Varde": "true"
2918         },
2919         {
2920             "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2921             "Varde": "grupp.for.utsokning.grundavanceradniva"
2922         },
2923         {
2924             "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
2925             "Varde": "true"
2926         }
2927     ]
2928 },
2929 "Sjalvstandig": true
2930 },
2931 "Utbildningsversion": 1
2932 }
2933 },
2934 {
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2936     "Avklarad": true,
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2938     "HarTillgodoraknande": false,
2939     "LarosateID": 29,
2940     "Nuvarande": true,
2941     "Paborjad": true,
2942     "Perioddeltaganden": [
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2946             "Periodbenamningar": {},
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2950             "UtbildningsPeriodFran": "2010-03-22",
2951             "UtbildningsPeriodTill": "2010-05-29"
2952         }
2953     ],
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2955     "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
2956     "SummeradGodkandOmfattning": "6.0",
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2958     "SummeradTillgodoraknadOmfattning": "0.0",
2959     "TillstandKurs": {
2960         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
2961         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
2962         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
2963         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
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2970             "en": "Software Engineering"
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2972         "Enhetskod": "HP",
2973         "FinansieringsformID": 101050,
2974         "LarosateID": 29,
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2976         "PeriodIOrdning": "0",
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2980                 "Omfattningsvarde": "6.0",
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2983                 "Uid": "79727980-73da-11e8-afa7-8e408e694e54"
2984             }
2985         ],
2986         "SarskildSekretessprovning": false,
2987         "Studielokalisering": {
2988             "sv": "Stockholm",
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2993                 "sv": "Stockholm",
2994                 "en": "Stockholm"
2995             },
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3006             "Startdatum": "2010-03-22"
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3013             "Takt": 50
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3015         "Undervisningsform": {
3016             "Benamningar": {
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3024 "UtbildningensOmfattningsvarde": "6.0",
3025 "UtbildningsinstansUID": "39ca9d4d-73d8-11e8-afa7-8e408e694e54",
3026 "Utbildningskod": "DD2385",
3027 "UtbildningstillfalleUID": "7972045d-73da-11e8-b4e0-063f9afb40e3",
3028 "Utbildningstillfalleskod": "80167",
3029 "Utbildningstillfallestyp": {
3030   "Benamningar": {
3031     "sv": "Kurstillfälle",
3032     "en": "Course instance"
3033   },
3034   "Giltighetsperiod": {},
3035   "Grundtyp": "KURS",
3036   "ID": 52,
3037   "Kod": "2007KTF",
3038   "RegelverkForUtbildningstyp": {
3039     "Regelvarden": [
3040       {
3041         "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3042         "Varde": "true"
3043       },
3044       {
3045         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
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3047       },
3048       {
3049         "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
3050         "Varde": "varning"
3051       },
3052       {
3053         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3054         "Varde": "grupp.for.utsokning.grundavanceradniva"
3055       },
3056       {
3057         "Regelnamn": "commons.domain.regel.kan.utannonseras",
3058         "Varde": "true"
3059       }
3060     ]
3061   },
3062   "Sjalvstandig": false
3063 },
3064 "Utbildningstyp": {
3065   "Benamningar": {
3066     "sv": "Kurs, avancerad nivå",
3067     "en": "Course, Second-cycle"

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3068     },
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3071     "ID": 24,
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3077           "Varde": "true"
3078         },
3079         {
3080           "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
3081           "Varde": "true"
3082         },
3083         {
3084           "Regelnamn": "commons.domain.regel.avbrottsregel",
3085           "Varde": "20"
3086         },
3087         {
3088           "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
3089           "Varde": "true"
3090         },
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3092           "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
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3094         },
3095         {
3096           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3097           "Varde": "grupp.for.utsokning.grundavanceradniva"
3098         },
3099         {
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3101           "Varde": "true"
3102         }
3103       ]
3104     },
3105     "Sjalvstandig": true
3106   },
3107   "Utbildningsversion": 2
3108 }
3109 },
3110 {
3111   "Aterbud": false,
3112   "Avklarad": true,
3113   "Godkannandedatum": "2010-04-07",
3114   "HarTillgodoraknande": false,
3115   "LarosateID": 29,
3116   "Nuvarande": true,
3117   "Paborjad": true,
3118   "Perioddeltaganden": [

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3122         "Periodbenamningar": {},
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3124         "Periodindex": 1,
3125         "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
3126         "UtbildningsPeriodFran": "2010-01-18",
3127         "UtbildningsPeriodTill": "2010-03-21"
3128     }
3129 ],
3130 "Sparrad": false,
3131 "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
3132 "SummeradGodkandOmfattning": "6.0",
3133 "SummeradHeltTillgodoraknadOmfattning": "0.0",
3134 "SummeradTillgodoraknadOmfattning": "0.0",
3135 "TillstandKurs": {
3136     "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
3137     "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
3138     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
3139     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
3140 },
3141 "Uid": "99402e3c-73f2-11e8-b9fd-0a821ba7448e",
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3143     "AntalPerioder": 1,
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3146         "en": "Computer Security"
3147     },
3148     "Enhetskod": "HP",
3149     "FinansieringsformID": 101050,
3150     "LarosateID": 29,
3151     "Omfattningsvarde": "6.0",
3152     "PeriodIOrdning": "0",
3153     "Perioder": [
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3157             "Slutdatum": "2010-03-21",
3158             "Startdatum": "2010-01-18",
3159             "Uid": "79a9402f-73da-11e8-afa7-8e408e694e54"
3160         }
3161     ],
3162     "SarskildSekretessprovning": false,
3163     "Studielokalisering": {
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3165         "en": "Stockholm"
3166     },
3167     "Studielokaliseringrepresentation": {
3168         "Benamningar": {
3169             "sv": "Stockholm",

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3170         "en": "Stockholm"
3171     },
3172     "Giltighetsperiod": {
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3174         "Startdatum": "1917-10-19"
3175     },
3176     "ID": 131778,
3177     "Kod": "0180"
3178 },
3179 "StudieordningID": "1",
3180 "Studieperiod": {
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3182     "Startdatum": "2010-01-18"
3183 },
3184 "Studietakt": {
3185     "Benamning": {
3186         "sv": "Helfart",
3187         "en": "Full-time"
3188     },
3189     "Takt": 100
3190 },
3191 "Undervisningsform": {
3192     "Benamningar": {
3193         "sv": "Normal",
3194         "en": "Normal teaching"
3195     },
3196     "Giltighetsperiod": {},
3197     "ID": 1
3198 },
3199 "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
3200 "UtbildningensOmfattningsvarde": "6.0",
3201 "UtbildningsinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
3202 "Utbildningskod": "DD2395",
3203 "UtbildningstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
3204 "Utbildningstillfalleskod": "81099",
3205 "Utbildningstillfallestyp": {
3206     "Benamningar": {
3207         "sv": "Kurstillfälle",
3208         "en": "Course instance"
3209     },
3210     "Giltighetsperiod": {},
3211     "Grundtyp": "KURS",
3212     "ID": 52,
3213     "Kod": "2007KTF",
3214     "RegelverkForUtbildningstyp": {
3215         "Regelvarden": [
3216             {
3217                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3218                 "Varde": "true"
3219             },
3220             {

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3221         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3222         "Varde": "true"
3223     },
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3225         "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
3226         "Varde": "varning"
3227     },
3228     {
3229         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3230         "Varde": "grupp.for.utsokning.grundavanceradniva"
3231     },
3232     {
3233         "Regelnamn": "commons.domain.regel.kan.utannonseras",
3234         "Varde": "true"
3235     }
3236 ]
3237 },
3238 "Sjalvstandig": false
3239 },
3240 "Utbildningstyp": {
3241     "Benamningar": {
3242         "sv": "Kurs, avancerad nivå",
3243         "en": "Course, Second-cycle"
3244     },
3245     "Giltighetsperiod": {},
3246     "Grundtyp": "KURS",
3247     "ID": 24,
3248     "Kod": "2007AKURS",
3249     "RegelverkForUtbildningstyp": {
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3251             {
3252                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3253                 "Varde": "true"
3254             },
3255             {
3256                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
3257                 "Varde": "true"
3258             },
3259             {
3260                 "Regelnamn": "commons.domain.regel.avbrottsregel",
3261                 "Varde": "20"
3262             },
3263             {
3264                 "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
3265                 "Varde": "true"
3266             },
3267             {
3268                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3269                 "Varde": "true"
3270             },
3271             {

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3272         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3273         "Varde": "grupp.for.utsokning.grundavanceradniva"
3274     },
3275     {
3276         "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
3277         "Varde": "true"
3278     }
3279 ]
3280 },
3281 "Sjalvstandig": true
3282 },
3283 "Utbildningsversion": 1
3284 }
3285 },
3286 {
3287     "Aterbud": false,
3288     "Avklarad": true,
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3290     "HarTillgodoraknande": false,
3291     "LarosateID": 29,
3292     "Nuvarande": true,
3293     "Paborjad": true,
3294     "Perioddeltaganden": [
3295         {
3296             "Anpassat": false,
3297             "Omfattningsvarde": "6.0",
3298             "Periodbenamningar": {},
3299             "PerioddeltagandeUID": "9951e160-73f2-11e8-b9fd-0a821ba7448e",
3300             "Periodindex": 1,
3301             "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
3302             "UtbildningsPeriodFran": "2010-08-27",
3303             "UtbildningsPeriodTill": "2010-10-24"
3304         }
3305     ],
3306     "Sparrad": false,
3307     "Studiestruktureferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
3308     "SummeradGodkandOmfattning": "6.0",
3309     "SummeradHeltTillgodoraknadOmfattning": "0.0",
3310     "SummeradTillgodoraknadOmfattning": "0.0",
3311     "TillstandKurs": {
3312         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
3313         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
3314         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
3315         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
3316     },
3317     "Uid": "9951ba4e-73f2-11e8-b9fd-0a821ba7448e",
3318     "Utbildningsinformation": {
3319         "AntalPerioder": 1,
3320         "Benamning": {
3321             "sv": "Maskininlärning",
3322             "en": "Machine Learning"

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3324 "Enhetskod": "HP",
3325 "FinansieringsformID": 101050,
3326 "LarosateID": 29,
3327 "Omfattningsvarde": "6.0",
3328 "PeriodIOrdning": "0",
3329 "Perioder": [
3330   {
3331     "Index": 1,
3332     "Omfattningsvarde": "6.0",
3333     "Slutdatum": "2010-10-24",
3334     "Startdatum": "2010-08-27",
3335     "Uid": "7a2e9d97-73da-11e8-afa7-8e408e694e54"
3336   }
3337 ],
3338 "SarskildSekretessprovning": false,
3339 "Studielokalisering": {
3340   "sv": "Stockholm",
3341   "en": "Stockholm"
3342 },
3343 "Studielokaliseringrepresentation": {
3344   "Benamningar": {
3345     "sv": "Stockholm",
3346     "en": "Stockholm"
3347   },
3348   "Giltighetsperiod": {
3349     "Slutdatum": "2019-01-14",
3350     "Startdatum": "1917-10-19"
3351   },
3352   "ID": 131778,
3353   "Kod": "0180"
3354 },
3355 "StudieordningID": "1",
3356 "Studieperiod": {
3357   "Slutdatum": "2010-10-24",
3358   "Startdatum": "2010-08-27"
3359 },
3360 "Studietakt": {
3361   "Benamning": {
3362     "sv": "Helfart",
3363     "en": "Full-time"
3364   },
3365   "Takt": 100
3366 },
3367 "Undervisningsform": {
3368   "Benamningar": {
3369     "sv": "Normal",
3370     "en": "Normal teaching"
3371   },
3372   "Giltighetsperiod": {},
3373   "ID": 1
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3374 },
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3376 "UtbildningensOmfattningsvarde": "6.0",
3377 "UtbildningsinstansUID": "3a2a972f-73d8-11e8-afa7-8e408e694e54",
3378 "Utbildningskod": "DD2431",
3379 "UtbildningstillfalleUID": "7a2e4e9d-73da-11e8-b4e0-063f9afb40e3",
3380 "Utbildningstillfalleskod": "90313",
3381 "Utbildningstillfallestyp": {
3382   "Benamningar": {
3383     "sv": "Kurstillfälle",
3384     "en": "Course instance"
3385   },
3386   "Giltighetsperiod": {},
3387   "Grundtyp": "KURS",
3388   "ID": 52,
3389   "Kod": "2007KTF",
3390   "RegelverkForUtbildningstyp": {
3391     "Regelvarden": [
3392       {
3393         "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3394         "Varde": "true"
3395       },
3396       {
3397         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3398         "Varde": "true"
3399       },
3400       {
3401         "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
3402         "Varde": "varning"
3403       },
3404       {
3405         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3406         "Varde": "grupp.for.utsokning.grundavanceradniva"
3407       },
3408       {
3409         "Regelnamn": "commons.domain.regel.kan.utannonseras",
3410         "Varde": "true"
3411       }
3412     ]
3413   },
3414   "Sjalvstandig": false
3415 },
3416 "Utbildningstyp": {
3417   "Benamningar": {
3418     "sv": "Kurs, avancerad nivå",
3419     "en": "Course, Second-cycle"
3420   },
3421   "Giltighetsperiod": {},
3422   "Grundtyp": "KURS",
3423   "ID": 24,
3424   "Kod": "2007AKURS",

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3426       "Regelvarden": [
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3428           "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3429           "Varde": "true"
3430         },
3431         {
3432           "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
3433           "Varde": "true"
3434         },
3435         {
3436           "Regelnamn": "commons.domain.regel.avbrottsregel",
3437           "Varde": "20"
3438         },
3439         {
3440           "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
3441           "Varde": "true"
3442         },
3443         {
3444           "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3445           "Varde": "true"
3446         },
3447         {
3448           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3449           "Varde": "grupp.for.utsokning.grundavanceradniva"
3450         },
3451         {
3452           "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
3453           "Varde": "true"
3454         }
3455       ]
3456     },
3457     "Sjalvstandig": true
3458   },
3459   "Utbildningsversion": 2
3460 }
3461 },
3462 {
3463   "Aterbud": false,
3464   "Avklarad": true,
3465   "Godkannandedatum": "2010-04-22",
3466   "HarTillgodoraknande": false,
3467   "LarosateID": 29,
3468   "Nuvarande": true,
3469   "Paborjad": true,
3470   "Perioddeltaganden": [
3471     {
3472       "Anpassat": false,
3473       "Omfattningsvarde": "7.5",
3474       "Periodbenamningar": {},
3475       "PerioddeltagandeUID": "995cb6b0-73f2-11e8-b9fd-0a821ba7448e",

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3476         "Periodindex": 1,
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3478         "UtbildningsPeriodFran": "2010-01-18",
3479         "UtbildningsPeriodTill": "2010-03-21"
3480     }
3481 ],
3482 "Sparrad": false,
3483 "Studiestruktureferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
3484 "SummeradGodkandOmfattning": "7.5",
3485 "SummeradHeltTillgodoraknadOmfattning": "0.0",
3486 "SummeradTillgodoraknadOmfattning": "0.0",
3487 "TillstandKurs": {
3488     "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
3489     "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
3490     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
3491     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
3492 },
3493 "UId": "995cb6af-73f2-11e8-b9fd-0a821ba7448e",
3494 "Utbildningsinformation": {
3495     "AntalPerioder": 1,
3496     "Benamning": {
3497         "sv": "Kryptografins grunder",
3498         "en": "Foundations of Cryptography"
3499     },
3500     "Enhetskod": "HP",
3501     "FinansieringsformID": 101050,
3502     "LarosateID": 29,
3503     "Omfattningsvarde": "7.5",
3504     "PeriodIOrdning": "0",
3505     "Perioder": [
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3507             "Index": 1,
3508             "Omfattningsvarde": "7.5",
3509             "Slutdatum": "2010-03-21",
3510             "Startdatum": "2010-01-18",
3511             "UId": "7a86ced1-73da-11e8-afa7-8e408e694e54"
3512         }
3513     ],
3514     "SarskildSekretessprovning": false,
3515     "Studielokalisering": {
3516         "sv": "Stockholm",
3517         "en": "Stockholm"
3518     },
3519     "Studielokaliseringrepresentation": {
3520         "Benamningar": {
3521             "sv": "Stockholm",
3522             "en": "Stockholm"
3523         },
3524         "Giltighetsperiod": {
3525             "Slutdatum": "2019-01-14",
3526             "Startdatum": "1917-10-19"

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3527     },
3528     "ID": 131778,
3529     "Kod": "0180"
3530 },
3531 "StudieordningID": "1",
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3534     "Startdatum": "2010-01-18"
3535 },
3536 "Studietakt": {
3537     "Benamning": {
3538         "sv": "Helfart",
3539         "en": "Full-time"
3540     },
3541     "Takt": 100
3542 },
3543 "Undervisningsform": {
3544     "Benamningar": {
3545         "sv": "Normal",
3546         "en": "Normal teaching"
3547     },
3548     "Giltighetsperiod": {},
3549     "ID": 1
3550 },
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3554 "Utbildningskod": "DD2448",
3555 "UtbildningstillfalleUID": "7a865a37-73da-11e8-b4e0-063f9afb40e3",
3556 "Utbildningstillfalleskod": "81084",
3557 "Utbildningstillfallestyp": {
3558     "Benamningar": {
3559         "sv": "Kurstillfälle",
3560         "en": "Course instance"
3561     },
3562     "Giltighetsperiod": {},
3563     "Grundtyp": "KURS",
3564     "ID": 52,
3565     "Kod": "2007KTF",
3566     "RegelverkForUtbildningstyp": {
3567         "Regelvarden": [
3568             {
3569                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3570                 "Varde": "true"
3571             },
3572             {
3573                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3574                 "Varde": "true"
3575             },
3576             {
3577                 "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",

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3581         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3582         "Varde": "grupp.for.utsokning.grundavanceradniva"
3583     },
3584     {
3585         "Regelnamn": "commons.domain.regel.kan.utannonseras",
3586         "Varde": "true"
3587     }
3588 ]
3589 },
3590 "Sjalvstandig": false
3591 },
3592 "Utbildningstyp": {
3593     "Benamningar": {
3594         "sv": "Kurs, avancerad nivå",
3595         "en": "Course, Second-cycle"
3596     },
3597     "Giltighetsperiod": {},
3598     "Grundtyp": "KURS",
3599     "ID": 24,
3600     "Kod": "2007AKURS",
3601     "RegelverkForUtbildningstyp": {
3602         "Regelvarden": [
3603             {
3604                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3605                 "Varde": "true"
3606             },
3607             {
3608                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
3609                 "Varde": "true"
3610             },
3611             {
3612                 "Regelnamn": "commons.domain.regel.avbrottsregel",
3613                 "Varde": "20"
3614             },
3615             {
3616                 "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
3617                 "Varde": "true"
3618             },
3619             {
3620                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3621                 "Varde": "true"
3622             },
3623             {
3624                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3625                 "Varde": "grupp.for.utsokning.grundavanceradniva"
3626             },
3627             {
3628                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",

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3630     }
3631 ]
3632 },
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3634 },
3635     "Utbildningsversion": 1
3636 }
3637 },
3638 {
3639     "Aterbud": false,
3640     "Avklarad": true,
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3642     "HarTillgodoraknande": false,
3643     "LarosateID": 29,
3644     "Nuvarande": true,
3645     "Paborjad": true,
3646     "Perioddeltaganden": [
3647     {
3648         "Anpassat": false,
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3650         "Periodbenamningar": {},
3651         "PerioddeltagandeUID": "9964f3be-73f2-11e8-b9fd-0a821ba7448e",
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3654         "UtbildningsPeriodFran": "2009-01-12",
3655         "UtbildningsPeriodTill": "2009-05-27"
3656     }
3657 ],
3658     "Sparrad": false,
3659     "Studiestruktureferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
3660     "SummeradGodkandOmfattning": "7.5",
3661     "SummeradHeltTillgodoraknadOmfattning": "0.0",
3662     "SummeradTillgodoraknadOmfattning": "0.0",
3663     "TillstandKurs": {
3664         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
3665         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
3666         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
3667         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
3668     },
3669     "Uid": "9964a599-73f2-11e8-b9fd-0a821ba7448e",
3670     "Utbildningsinformation": {
3671         "AntalPerioder": 1,
3672         "Benamning": {
3673             "sv": "Kommunikation och media",
3674             "en": "Communication and Media"
3675         },
3676         "Enhetskod": "HP",
3677         "FinansieringsformID": 101050,
3678         "LarosateID": 29,
3679         "Omfattningsvarde": "7.5",

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3681     "Perioder": [
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3684         "Omfattningsvarde": "7.5",
3685         "Slutdatum": "2009-05-27",
3686         "Startdatum": "2009-01-12",
3687         "Uid": "7b83ccf4-73da-11e8-afa7-8e408e694e54"
3688     }
3689 ],
3690     "SarskildSekretessprovning": false,
3691     "Studielokalisering": {
3692         "sv": "Stockholm",
3693         "en": "Stockholm"
3694     },
3695     "Studielokaliseringrepresentation": {
3696         "Benamningar": {
3697             "sv": "Stockholm",
3698             "en": "Stockholm"
3699         },
3700         "Giltighetsperiod": {
3701             "Slutdatum": "2019-01-14",
3702             "Startdatum": "1917-10-19"
3703         },
3704         "ID": 131778,
3705         "Kod": "0180"
3706     },
3707     "StudieordningID": "1",
3708     "Studieperiod": {
3709         "Slutdatum": "2009-05-27",
3710         "Startdatum": "2009-01-12"
3711     },
3712     "Studietakt": {
3713         "Benamning": {
3714             "sv": "Helfart",
3715             "en": "Full-time"
3716         },
3717         "Takt": 100
3718     },
3719     "Undervisningsform": {
3720         "Benamningar": {
3721             "sv": "Normal",
3722             "en": "Normal teaching"
3723         },
3724         "Giltighetsperiod": {},
3725         "ID": 1
3726     },
3727     "UtbildningUID": "3b09862f-73d8-11e8-afa7-8e408e694e54",
3728     "UtbildningensOmfattningsvarde": "7.5",
3729     "UtbildningsinstansUID": "3b1b5fcb-73d8-11e8-afa7-8e408e694e54",
3730     "Utbildningskod": "DH1601",
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3731 "UtbildningstillfalleUID": "7b837e74-73da-11e8-b4e0-063f9afb40e3",
3732 "Utbildningstillfalleskod": "60323",
3733 "Utbildningstillfallestyp": {
3734   "Benamningar": {
3735     "sv": "Kurstillfälle",
3736     "en": "Course instance"
3737   },
3738   "Giltighetsperiod": {},
3739   "Grundtyp": "KURS",
3740   "ID": 52,
3741   "Kod": "2007KTF",
3742   "RegelverkForUtbildningstyp": {
3743     "Regelvarden": [
3744       {
3745         "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3746         "Varde": "true"
3747       },
3748       {
3749         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3750         "Varde": "true"
3751       },
3752       {
3753         "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
3754         "Varde": "varning"
3755       },
3756       {
3757         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3758         "Varde": "grupp.for.utsokning.grundavanceradniva"
3759       },
3760       {
3761         "Regelnamn": "commons.domain.regel.kan.utannonseras",
3762         "Varde": "true"
3763       }
3764     ]
3765   },
3766   "Sjalvstandig": false
3767 },
3768 "Utbildningstyp": {
3769   "Benamningar": {
3770     "sv": "Kurs, grundnivå",
3771     "en": "Course, First-cycle"
3772   },
3773   "Giltighetsperiod": {},
3774   "Grundtyp": "KURS",
3775   "ID": 22,
3776   "Kod": "2007GKURS",
3777   "RegelverkForUtbildningstyp": {
3778     "Regelvarden": [
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3780         "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3781         "Varde": "true"
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3785         "Varde": "grupp.for.utsokning.grundavanceradniva"
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3787     {
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3789         "Varde": "true"
3790     },
3791     {
3792         "Regelnamn": "commons.domain.regel.avbrottsregel",
3793         "Varde": "20"
3794     },
3795     {
3796         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3797         "Varde": "true"
3798     },
3799     {
3800         "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
3801         "Varde": "true"
3802     },
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3804         "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
3805         "Varde": "true"
3806     }
3807 ]
3808 },
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3810 },
3811 "Utbildningsversion": 2
3812 }
3813 },
3814 {
3815     "Aterbud": false,
3816     "Avklarad": true,
3817     "Godkannandedatum": "2008-12-22",
3818     "HarTillgodoraknande": false,
3819     "LarosateID": 29,
3820     "Nuvarande": false,
3821     "Paborjad": true,
3822     "Perioddeltaganden": [
3823         {
3824             "Anpassat": false,
3825             "Omfattningsvarde": "6.0",
3826             "Periodbenamningar": {},
3827             "PerioddeltagandeUID": "996ff03a-73f2-11e8-b9fd-0a821ba7448e",
3828             "Periodindex": 1,
3829             "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
3830             "UtbildningsPeriodFran": "2007-08-31",
3831             "UtbildningsPeriodTill": "2008-01-11"
3832         }

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3833 ],
3834 "Sparrad": false,
3835 "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
3836 "SummeradGodkandOmfattning": "6.0",
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3838 "SummeradTillgodoraknadOmfattning": "0.0",
3839 "TillstandKurs": {
3840   "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
3841   "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
3842   "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
3843   "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
3844 },
3845 "UId": "996fa213-73f2-11e8-b9fd-0a821ba7448e",
3846 "Utbildningsinformation": {
3847   "AntalPerioder": 1,
3848   "Benamning": {
3849     "sv": "L rande och IKT, projektkurs",
3850     "en": "Learning and ICT, Project Course"
3851   },
3852   "Enhetskod": "HP",
3853   "FinansieringsformID": 101050,
3854   "LarosateID": 29,
3855   "Omfattningsvarde": "6.0",
3856   "PeriodIOrdning": "0",
3857   "Perioder": [
3858     {
3859       "Index": 1,
3860       "Omfattningsvarde": "6.0",
3861       "Slutdatum": "2008-01-11",
3862       "Startdatum": "2007-08-31",
3863       "UId": "7b8fda64-73da-11e8-afa7-8e408e694e54"
3864     }
3865   ],
3866   "SarskildSekretessprovning": false,
3867   "Studielokalisering": {
3868     "sv": "Stockholm",
3869     "en": "Stockholm"
3870   },
3871   "Studielokaliseringrepresentation": {
3872     "Benamningar": {
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3874       "en": "Stockholm"
3875     },
3876     "Giltighetsperiod": {
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3878       "Startdatum": "1917-10-19"
3879     },
3880     "ID": 131778,
3881     "Kod": "O180"
3882   },
3883   "StudieordningID": "1",

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3886         "Startdatum": "2007-08-31"
3887     },
3888     "Studietakt": {
3889         "Benamning": {
3890             "sv": "Helfart",
3891             "en": "Full-time"
3892         },
3893         "Takt": 100
3894     },
3895     "Undervisningsform": {
3896         "Benamningar": {
3897             "sv": "Normal",
3898             "en": "Normal teaching"
3899         },
3900         "Giltighetsperiod": {},
3901         "ID": 1
3902     },
3903     "UtbildningUID": "3b0a48c1-73d8-11e8-afa7-8e408e694e54",
3904     "UtbildningensOmfattningsvarde": "6.0",
3905     "UtbildningsinstansUID": "3b0259b8-73d8-11e8-b4e0-063f9afb40e3",
3906     "Utbildningskod": "DH1607",
3907     "UtbildningstillfalleUID": "7b8f8c71-73da-11e8-b4e0-063f9afb40e3",
3908     "Utbildningstillfalleskod": "DH004",
3909     "Utbildningstillfallestyp": {
3910         "Benamningar": {
3911             "sv": "Kurstillfälle",
3912             "en": "Course instance"
3913         },
3914         "Giltighetsperiod": {},
3915         "Grundtyp": "KURS",
3916         "ID": 52,
3917         "Kod": "2007KTF",
3918         "RegelverkForUtbildningstyp": {
3919             "Regelvarde": [
3920                 {
3921                     "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3922                     "Varde": "true"
3923                 },
3924                 {
3925                     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3926                     "Varde": "true"
3927                 },
3928                 {
3929                     "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
3930                     "Varde": "varning"
3931                 },
3932                 {
3933                     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3934                     "Varde": "grupp.for.utsokning.grundavanceradniva"

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3935     },
3936     {
3937         "Regelnamn": "commons.domain.regel.kan.utannonseras",
3938         "Varde": "true"
3939     }
3940 ]
3941 },
3942 "Sjalvstandig": false
3943 },
3944 "Utbildningstyp": {
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3947         "en": "Course, First-cycle"
3948     },
3949     "Giltighetsperiod": {},
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3951     "ID": 22,
3952     "Kod": "2007GKURS",
3953     "RegelverkForUtbildningstyp": {
3954         "Regelvarde": [
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3956                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
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3958             },
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3960                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3961                 "Varde": "grupp.for.utsokning.grundavanceradniva"
3962             },
3963             {
3964                 "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
3965                 "Varde": "true"
3966             },
3967             {
3968                 "Regelnamn": "commons.domain.regel.avbrottsregel",
3969                 "Varde": "20"
3970             },
3971             {
3972                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3973                 "Varde": "true"
3974             },
3975             {
3976                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
3977                 "Varde": "true"
3978             },
3979             {
3980                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
3981                 "Varde": "true"
3982             }
3983         ]
3984     },
3985     "Sjalvstandig": true

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3986     },
3987     "Utbildningsversion": 1
3988   }
3989 },
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3991   "Aterbud": false,
3992   "Avklarad": true,
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3994   "Godkannandedatum": "2008-12-22",
3995   "HarTillgodoraknande": false,
3996   "LarosateID": 29,
3997   "Nuvarande": true,
3998   "Paborjad": true,
3999   "Perioddeltaganden": [
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4001       "Anpassat": false,
4002       "Omfattningsvarde": "6.0",
4003       "Periodbenamningar": {},
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4005       "Periodindex": 1,
4006       "Tillstand": "studiedeltagande.domain.tillstandsdefinition.omregistrerad",
4007       "UtbildningsPeriodFran": "2008-08-29",
4008       "UtbildningsPeriodTill": "2009-01-10"
4009     }
4010   ],
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4015   "SummeradTillgodoraknadOmfattning": "0.0",
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4018     "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
4019     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
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4021   },
4022   "Uid": "997bd741-73f2-11e8-b9fd-0a821ba7448e",
4023   "Utbildningsinformation": {
4024     "AntalPerioder": 1,
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4027       "en": "Learning and ICT, Project Course"
4028     },
4029     "Enhetskod": "HP",
4030     "LarosateID": 29,
4031     "Omfattningsvarde": "6.0",
4032     "PeriodIOrdning": "0",
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4034       {
4035         "Index": 1,
4036         "Omfattningsvarde": "6.0",

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4038         "Startdatum": "2008-08-29",
4039         "Uid": "05472211-73db-11e8-afa7-8e408e694e54"
4040     }
4041 ],
4042 "SarskildSekretessprovning": false,
4043 "StudieordningID": "1",
4044 "Studieperiod": {
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4046     "Startdatum": "2008-08-29"
4047 },
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4049 "UtbildningensOmfattningsvarde": "6.0",
4050 "UtbildningsinstansUID": "3b0259b8-73d8-11e8-b4e0-063f9afb40e3",
4051 "Utbildningskod": "DH1607",
4052 "UtbildningstillfalleUID": "054610ad-73db-11e8-b4e0-063f9afb40e3",
4053 "Utbildningstillfalleskod": "KONV-00D0B2",
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4057         "en": "Course instance"
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4060     "Grundtyp": "KURS",
4061     "ID": 52,
4062     "Kod": "2007KTF",
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4067                 "Varde": "true"
4068             },
4069             {
4070                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4071                 "Varde": "true"
4072             },
4073             {
4074                 "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
4075                 "Varde": "varning"
4076             },
4077             {
4078                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4079                 "Varde": "grupp.for.utsokning.grundavanceradniva"
4080             },
4081             {
4082                 "Regelnamn": "commons.domain.regel.kan.utannonseras",
4083                 "Varde": "true"
4084             }
4085         ]
4086     },
4087     "Sjalvstandig": false

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4088     },
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4092         "en": "Course, First-cycle"
4093       },
4094       "Giltighetsperiod": {},
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4096       "ID": 22,
4097       "Kod": "2007GKURS",
4098       "RegelverkForUtbildningstyp": {
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4112           {
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4115           },
4116           {
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4118             "Varde": "true"
4119           },
4120           {
4121             "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
4122             "Varde": "true"
4123           },
4124           {
4125             "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
4126             "Varde": "true"
4127           }
4128         ]
4129       },
4130       "Sjalvstandig": true
4131     },
4132     "Utbildningsversion": 1
4133   }
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4137   "Avklarad": true,
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4140     "LarosateID": 29,
4141     "Nuvarande": true,
4142     "Paborjad": true,
4143     "Perioddeltaganden": [
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4146         "Omfattningsvarde": "6.0",
4147         "Periodbenamningar": {},
4148         "PerioddeltagandeUID": "998748fe-73f2-11e8-b9fd-0a821ba7448e",
4149         "Periodindex": 1,
4150         "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
4151         "UtbildningsPeriodFran": "2009-08-28",
4152         "UtbildningsPeriodTill": "2009-11-01"
4153       }
4154     ],
4155     "Sparrad": false,
4156     "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
4157     "SummeradGodkandOmfattning": "6.0",
4158     "SummeradHeltTillgodoraknadOmfattning": "0.0",
4159     "SummeradTillgodoraknadOmfattning": "0.0",
4160     "TillstandKurs": {
4161       "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
4162       "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
4163       "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
4164       "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
4165     },
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4167     "Utbildningsinformation": {
4168       "AntalPerioder": 1,
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4171         "en": "Language Engineering"
4172       },
4173       "Enhetskod": "HP",
4174       "FinansieringsformID": 101050,
4175       "LarosateID": 29,
4176       "Omfattningsvarde": "6.0",
4177       "PeriodIOrdning": "0",
4178       "Perioder": [
4179         {
4180           "Index": 1,
4181           "Omfattningsvarde": "6.0",
4182           "Slutdatum": "2009-11-01",
4183           "Startdatum": "2009-08-28",
4184           "Uid": "7bf94b4f-73da-11e8-afa7-8e408e694e54"
4185         }
4186       ],
4187       "SarskildSekretessprovning": false,
4188       "Studielokalisering": {
4189         "sv": "Stockholm",

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4190     "en": "Stockholm"
4191 },
4192 "Studielokaliseringrepresentation": {
4193     "Benamningar": {
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4195         "en": "Stockholm"
4196     },
4197     "Giltighetsperiod": {
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4199         "Startdatum": "1917-10-19"
4200     },
4201     "ID": 131778,
4202     "Kod": "0180"
4203 },
4204 "StudieordningID": "1",
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4207     "Startdatum": "2009-08-28"
4208 },
4209 "Studietakt": {
4210     "Benamning": {
4211         "sv": "Halvfart",
4212         "en": "Half-time"
4213     },
4214     "Takt": 50
4215 },
4216 "Undervisningsform": {
4217     "Benamningar": {
4218         "sv": "Normal",
4219         "en": "Normal teaching"
4220     },
4221     "Giltighetsperiod": {},
4222     "ID": 1
4223 },
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4225 "UtbildningensOmfattningsvarde": "6.0",
4226 "UtbildningsinstansUID": "3b3529d4-73d8-11e8-b4e0-063f9afb40e3",
4227 "Utbildningskod": "DH2418",
4228 "UtbildningstillfalleUID": "7bf8d63b-73da-11e8-b4e0-063f9afb40e3",
4229 "Utbildningstillfalleskod": "70349",
4230 "Utbildningstillfallestyp": {
4231     "Benamningar": {
4232         "sv": "Kurstillfälle",
4233         "en": "Course instance"
4234     },
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4236     "Grundtyp": "KURS",
4237     "ID": 52,
4238     "Kod": "2007KTF",
4239     "RegelverkForUtbildningstyp": {
4240         "Regelvarden": [

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4243         "Varde": "true"
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4246         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4247         "Varde": "true"
4248     },
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4251         "Varde": "varning"
4252     },
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4255         "Varde": "grupp.for.utsokning.grundavanceradniva"
4256     },
4257     {
4258         "Regelnamn": "commons.domain.regel.kan.utannonseras",
4259         "Varde": "true"
4260     }
4261 ]
4262 },
4263 "Själavstandig": false
4264 },
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4268         "en": "Course, Second-cycle"
4269     },
4270     "Giltighetsperiod": {},
4271     "Grundtyp": "KURS",
4272     "ID": 24,
4273     "Kod": "2007AKURS",
4274     "RegelverkForUtbildningstyp": {
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4277                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4278                 "Varde": "true"
4279             },
4280             {
4281                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
4282                 "Varde": "true"
4283             },
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4285                 "Regelnamn": "commons.domain.regel.avbrottsregel",
4286                 "Varde": "20"
4287             },
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4289                 "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
4290                 "Varde": "true"
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4297             "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4298             "Varde": "grupp.for.utsokning.grundavanceradniva"
4299         },
4300         {
4301             "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
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4303         }
4304     ]
4305 },
4306 "Sjalvstandig": true
4307 },
4308 "Utbildningsversion": 1
4309 }
4310 },
4311 {
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4313     "Avklarad": true,
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4315     "HarTillgodoraknande": false,
4316     "LarosateID": 29,
4317     "Nuvarande": true,
4318     "Paborjad": true,
4319     "Perioddeltaganden": [
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4322             "Omfattningsvarde": "4.5",
4323             "Periodbenamningar": {},
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4325             "Periodindex": 1,
4326             "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
4327             "UtbildningsPeriodFran": "2010-08-27",
4328             "UtbildningsPeriodTill": "2010-12-26"
4329         }
4330     ],
4331     "Sparrad": false,
4332     "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
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4334     "SummeradHeltTillgodoraknadOmfattning": "0.0",
4335     "SummeradTillgodoraknadOmfattning": "0.0",
4336     "TillstandKurs": {
4337         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
4338         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
4339         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
4340         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
4341     },
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4347     "en": "Science, Technology and Learning, part II, incl Teaching Practice"
4348   },
4349   "Enhetskod": "HP",
4350   "FinansieringsformID": 101050,
4351   "LarosateID": 29,
4352   "Omfattningsvarde": "4.5",
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4356       "Index": 1,
4357       "Omfattningsvarde": "4.5",
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4359       "Startdatum": "2010-08-27",
4360       "Uid": "7c1f709a-73da-11e8-afa7-8e408e694e54"
4361     }
4362   ],
4363   "SarskildSekretessprovning": false,
4364   "Studielokalisering": {
4365     "sv": "Stockholm",
4366     "en": "Stockholm"
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4368   "Studielokaliseringrepresentation": {
4369     "Benamningar": {
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4375       "Startdatum": "1917-10-19"
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4377     "ID": 131778,
4378     "Kod": "0180"
4379   },
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4381   "Studieperiod": {
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4384   },
4385   "Studietakt": {
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4387       "sv": "Kvartsfart",
4388       "en": "One-quarter-time"
4389     },
4390     "Takt": 25
4391   },
4392   "Undervisningsform": {
4393     "Benamningar": {
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4394     "sv": "Normal",
4395     "en": "Normal teaching"
4396 },
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4399 },
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4401 "UtbildningensOmfattningsvarde": "4.5",
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4404 "UtbildningstillfalleUID": "7c1d747a-73da-11e8-b4e0-063f9afb40e3",
4405 "Utbildningstillfalleskod": "90329",
4406 "Utbildningstillfallestyp": {
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4409         "en": "Course instance"
4410     },
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4412     "Grundtyp": "KURS",
4413     "ID": 52,
4414     "Kod": "2007KTF",
4415     "RegelverkForUtbildningstyp": {
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4419                 "Varde": "true"
4420             },
4421             {
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4423                 "Varde": "true"
4424             },
4425             {
4426                 "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
4427                 "Varde": "varning"
4428             },
4429             {
4430                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4431                 "Varde": "grupp.for.utsokning.grundavanceradniva"
4432             },
4433             {
4434                 "Regelnamn": "commons.domain.regel.kan.utannonseras",
4435                 "Varde": "true"
4436             }
4437         ]
4438     },
4439     "Sjalvstandig": false
4440 },
4441 "Utbildningstyp": {
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4443         "sv": "Kurs, avancerad nivå",
4444         "en": "Course, Second-cycle"

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4445     },
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4448     "ID": 24,
4449     "Kod": "2007AKURS",
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4455         },
4456         {
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4458           "Varde": "true"
4459         },
4460         {
4461           "Regelnamn": "commons.domain.regel.avbrottsregel",
4462           "Varde": "20"
4463         },
4464         {
4465           "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
4466           "Varde": "true"
4467         },
4468         {
4469           "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
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4475         },
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4477           "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
4478           "Varde": "true"
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4481     },
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4483   },
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4493   "Nuvarande": true,
4494   "Paborjad": true,
4495   "Perioddeltaganden": [

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4503         "UtbildningsPeriodFran": "2008-08-29",
4504         "UtbildningsPeriodTill": "2009-01-10"
4505     }
4506 ],
4507 "Sparrad": false,
4508 "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
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4510 "SummeradHeltTillgodoraknadOmfattning": "0.0",
4511 "SummeradTillgodoraknadOmfattning": "0.0",
4512 "TillstandKurs": {
4513     "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
4514     "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
4515     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
4516     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
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4523         "en": "Human-Computer Interaction - a Didactive Perspective"
4524     },
4525     "Enhetskod": "HP",
4526     "FinansieringsformID": 101050,
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4536             "Uid": "7c44d341-73da-11e8-afa7-8e408e694e54"
4537         }
4538     ],
4539     "SarskildSekretessprovning": false,
4540     "Studielokalisering": {
4541         "sv": "Stockholm",
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4564         "en": "Full-time"
4565     },
4566     "Takt": 100
4567 },
4568 "Undervisningsform": {
4569     "Benamningar": {
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4571         "en": "Normal teaching"
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4579 "Utbildningskod": "DH2624",
4580 "UtbildningstillfalleUID": "7c4484a6-73da-11e8-b4e0-063f9afb40e3",
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4585         "en": "Course instance"
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4591     "RegelverkForUtbildningstyp": {
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4595                 "Varde": "true"
4596             },
4597             {

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4607         "Varde": "grupp.for.utsokning.grundavanceradniva"
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4609     {
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4612     }
4613 ]
4614 },
4615 "Sjalvstandig": false
4616 },
4617 "Utbildningstyp": {
4618     "Benamningar": {
4619         "sv": "Kurs, avancerad nivå",
4620         "en": "Course, Second-cycle"
4621     },
4622     "Giltighetsperiod": {},
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4624     "ID": 24,
4625     "Kod": "2007AKURS",
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4632             {
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4635             },
4636             {
4637                 "Regelnamn": "commons.domain.regel.avbrottsregel",
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4639             },
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4668     "LarosateID": 29,
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4670     "Paborjad": true,
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4690             "UtbildningsPeriodTill": "2008-05-26"
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4697     "SummeradTillgodoraknadOmfattning": "0.0",
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4709         "en": "Numerical Methods, Basic Course II"
4710     },
4711     "Enhetskod": "HP",
4712     "FinansieringsformID": 101050,
4713     "LarosateID": 29,
4714     "Omfattningsvarde": "6.0",
4715     "PeriodIOrdning": "0",
4716     "Perioder": [
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4731     ],
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4735         "en": "Stockholm"
4736     },
4737     "Studielokaliseringrepresentation": {
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4740             "en": "Stockholm"
4741         },
4742         "Giltighetsperiod": {
4743             "Slutdatum": "2019-01-14",
4744             "Startdatum": "1917-10-19"
4745         },
4746         "ID": 131778,
4747         "Kod": "0180"
4748     },
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4760 },
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4764         "en": "Normal teaching"
4765     },
4766     "Giltighetsperiod": {},
4767     "ID": 1
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4772 "Utbildningskod": "DN1240",
4773 "UtbildningstillfalleUID": "7e625b93-73da-11e8-b4e0-063f9afb40e3",
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4775 "Utbildningstillfallestyp": {
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4782     "ID": 52,
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4793             },
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4795                 "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
4796                 "Varde": "varning"
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4798             {
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4800                 "Varde": "grupp.for.utsokning.grundavanceradniva"
4801             },

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4804             "Varde": "true"
4805         }
4806     ],
4807 },
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4809 },
4810 "Utbildningstyp": {
4811     "Benamningar": {
4812         "sv": "Kurs, grundnivå",
4813         "en": "Course, First-cycle"
4814     },
4815     "Giltighetsperiod": {},
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4817     "ID": 22,
4818     "Kod": "2007GKURS",
4819     "RegelverkForUtbildningstyp": {
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4823                 "Varde": "true"
4824             },
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4827                 "Varde": "grupp.for.utsokning.grundavanceradniva"
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4836             },
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4838                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4839                 "Varde": "true"
4840             },
4841             {
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4843                 "Varde": "true"
4844             },
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4846                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
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4849         ]
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4860   "HarTillgodoraknande": true,
4861   "LarosateID": 29,
4862   "Nuvarande": true,
4863   "Paborjad": true,
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4871       "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
4872       "UtbildningsPeriodFran": "2007-08-31",
4873       "UtbildningsPeriodTill": "2008-01-11"
4874     }
4875   ],
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4879   "SummeradHeltTillgodoraknadOmfattning": "0.0",
4880   "SummeradTillgodoraknadOmfattning": "7.5",
4881   "TillstandKurs": {
4882     "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
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4884     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
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4892       "en": "Theories of Learning"
4893     },
4894     "Enhetskod": "HP",
4895     "FinansieringsformID": 131731,
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4911     "en": "Stockholm"
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4913 "Studielokaliseringrepresentation": {
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4916         "en": "Stockholm"
4917     },
4918     "Giltighetsperiod": {
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4920         "Startdatum": "1917-10-19"
4921     },
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4923     "Kod": "0180"
4924 },
4925 "StudieordningID": "1",
4926 "Studieperiod": {
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4928     "Startdatum": "2007-08-31"
4929 },
4930 "Studietakt": {
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4932         "sv": "Helfart",
4933         "en": "Full-time"
4934     },
4935     "Takt": 100
4936 },
4937 "Undervisningsform": {
4938     "Benamningar": {
4939         "sv": "Normal",
4940         "en": "Normal teaching"
4941     },
4942     "Giltighetsperiod": {},
4943     "ID": 1
4944 },
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4946 "UtbildningensOmfattningsvarde": "7.5",
4947 "UtbildningsinstansUID": "4b621782-73d8-11e8-b4e0-063f9afb40e3",
4948 "Utbildningskod": "GA2010",
4949 "UtbildningstillfalleUID": "95d6ff04-73da-11e8-b4e0-063f9afb40e3",
4950 "Utbildningstillfalleskod": "X0036",
4951 "Utbildningstillfallestyp": {
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4954         "en": "Course instance (including attributes from the study regulation of 1993)"

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4958     "ID": 105632,
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4964           "Varde": "grupp.for.utsokning.grundavanceradniva"
4965         },
4966         {
4967           "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4968           "Varde": "true"
4969         }
4970       ]
4971     },
4972     "Sjalvstandig": false
4973   },
4974   "Utbildningstyp": {
4975     "Benamningar": {
4976       "sv": "Kurs, grundnivå (inkl. attribut från 1993 års studieordning)",
4977       "en": "Course, First-cycle (including attributes from the study regulation of 1993)"
4978     },
4979     "Giltighetsperiod": {},
4980     "Grundtyp": "KURS",
4981     "ID": 105630,
4982     "Kod": "0793GKURS",
4983     "RegelverkForUtbildningstyp": {
4984       "Regelvarden": [
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4986           "Regelnamn": "commons.domain.regel.avbrottsregel",
4987           "Varde": "20"
4988         },
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4991           "Varde": "true"
4992         },
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4994           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4995           "Varde": "grupp.for.utsokning.grundavanceradniva"
4996         }
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5020         "UtbildningsPeriodTill": "2008-05-26"
5021     }
5022 ],
5023     "Sparrad": false,
5024     "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
5025     "SummeradGodkandOmfattning": "0.0",
5026     "SummeradHeltTillgodoraknadOmfattning": "0.0",
5027     "SummeradTillgodoraknadOmfattning": "0.0",
5028     "TillstandKurs": {
5029         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avbrott",
5030         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avbrott",
5031         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
5032         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avbrott"
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5039             "en": "Education, Pedagogy and Society - Yesterday, Today and Tomorrow"
5040         },
5041         "Enhetskod": "HP",
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5045         "PeriodIOrdning": "0",
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5052             "Uid": "95d74de7-73da-11e8-afa7-8e408e694e54"
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5055     "SarskildSekretessprovning": false,
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5063         "en": "Stockholm"
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5067         "Startdatum": "1917-10-19"
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5076 },
5077 "Studietakt": {
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5079         "sv": "Helfart",
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5081     },
5082     "Takt": 100
5083 },
5084 "Undervisningsform": {
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5087         "en": "Normal teaching"
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5095 "Utbildningskod": "GA2020",
5096 "UtbildningstillfalleUID": "95d72618-73da-11e8-b4e0-063f9afb40e3",
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5106     "Kod": "2007KTF",
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5115         "Varde": "true"
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5119         "Varde": "varning"
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5121       {
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5130     "Sjalvstandig": false
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5153           "Varde": "true"
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5158         }

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5166             "Varde": "true"
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5183     "LarosateID": 29,
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5185     "Paborjad": true,
5186     "Perioddeltaganden": [
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5195             "UtbildningsPeriodTill": "2008-05-26"
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5198     "Sparrad": false,
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5202     "SummeradTillgodoraknadOmfattning": "0.0",
5203     "TillstandKurs": {
5204         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avbrott",
5205         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avbrott",
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5207         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avbrott"
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5215         },
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5217         "FinansieringsformID": 131731,
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5291             },
5292             {
5293                 "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
5294                 "Varde": "varning"
5295             },
5296             {
5297                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5298                 "Varde": "grupp.for.utsokning.grundavanceradniva"
5299             },
5300             {
5301                 "Regelnamn": "commons.domain.regel.kan.utannonseras",
5302                 "Varde": "true"
5303             }
5304         ]
5305     },
5306     "Sjalvstandig": false
5307 },
5308 "Utbildningstyp": {
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5310         "sv": "Kurs, grundnivå",
5311         "en": "Course, First-cycle"

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5312     },
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5317     "RegelverkForUtbildningstyp": {
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5371         "UtbildningsPeriodTill": "2007-01-16"
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5378 "SummeradTillgodoraknadOmfattning": "0.0",
5379 "TillstandKurs": {
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5390         "en": "Basic Course in Teacher Commission and Professional Teacherhood, incl Teaching Practice"
5391     },
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5393     "FinansieringsformID": 131731,
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5421     "Kod": "0180"
5422 },
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5426     "Startdatum": "2006-08-30"
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5431         "en": "Full-time"
5432     },
5433     "Takt": 100
5434 },
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5438         "en": "Normal teaching"
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5457     "Kod": "0793KTF",
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5462                 "Varde": "grupp.for.utsokning.grundavanceradniva"
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5486             },
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5488                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
5489                 "Varde": "true"
5490             },
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5493                 "Varde": "grupp.for.utsokning.grundavanceradniva"
5494             }
5495         ]
5496     },
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5498 },
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5500 }
5501 },
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5506     "LarosateID": 29,
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5508     "Paborjad": true,
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5529     },
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5538         "UtbildningsPeriodTill": "2008-05-26"
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5569     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
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5765           "Uid": "afd310db-73da-11e8-afa7-8e408e694e54"
5766         }
5767       ],
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5818     "ID": 105632,
5819     "Kod": "0793KTF",
5820     "RegelverkForUtbildningstyp": {
5821         "Regelvarden": [

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5828       "Varde": "true"
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5881         "UtbildningsPeriodTill": "2009-01-10"
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5900         "en": "Educational Perspective on Mathematics, incl Teaching Practice"
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5914         }
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6068         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
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6076             "en": "Electrical Engineering, Basic Course Media"

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6420         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.paborjad"
6421     },
6422     "Uid": "9a1c364e-73f2-11e8-b9fd-0a821ba7448e",
6423     "Utbildningsinformation": {
6424         "AntalPerioder": 1,
6425         "Benamning": {
6426             "sv": "Partnerområde - kurs för gruppindelning",
6427             "en": "."
6428         },
6429         "Enhetskod": "HP",
6430         "FinansieringsformID": 131731,
6431         "LarosateID": 29,
6432         "Omfattningsvarde": "0.0",
6433         "PeriodIOrdning": "0",

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6439             "Startdatum": "2007-08-31",  
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6441         }  
6442     ],  
6443     "SarskildSekretessprovning": false,  
6444     "Studielokalisering": {  
6445         "sv": "Stockholm",  
6446         "en": "Stockholm"  
6447     },  
6448     "Studielokaliseringrepresentation": {  
6449         "Benamningar": {  
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6451             "en": "Stockholm"  
6452         },  
6453         "Giltighetsperiod": {  
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6455             "Startdatum": "1917-10-19"  
6456         },  
6457         "ID": 131778,  
6458         "Kod": "0180"  
6459     },  
6460     "StudieordningID": "1",  
6461     "Studieperiod": {  
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6463         "Startdatum": "2007-08-31"  
6464     },  
6465     "Studietakt": {  
6466         "Benamning": {  
6467             "sv": "Helfart",  
6468             "en": "Full-time"  
6469         },  
6470         "Takt": 100  
6471     },  
6472     "Undervisningsform": {  
6473         "Benamningar": {  
6474             "sv": "Normal",  
6475             "en": "Normal teaching"  
6476         },  
6477         "Giltighetsperiod": {},  
6478         "ID": 1  
6479     },  
6480     "UtbildningUID": "7ba43814-73d8-11e8-afa7-8e408e694e54",  
6481     "UtbildningensOmfattningsvarde": "0.0",  
6482     "UtbildningsinstansUID": "7ba3e9b7-73d8-11e8-b4e0-063f9afb40e3",  
6483     "Utbildningskod": "PARTOM",  
6484     "UtbildningstillfalleUID": "c3763993-73da-11e8-b4e0-063f9afb40e3",
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6485     "Utbildningstillfalleskod": "X0027",
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6489         "en": "Course instance (including attributes from the study regulation of 1993)"
6490       },
6491       "Giltighetsperiod": {},
6492       "Grundtyp": "KURS",
6493       "ID": 105632,
6494       "Kod": "0793KTF",
6495       "RegelverkForUtbildningstyp": {
6496         "Regelvarden": [
6497           {
6498             "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6499             "Varde": "grupp.for.utsokning.grundavanceradniva"
6500           },
6501           {
6502             "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
6503             "Varde": "true"
6504           }
6505         ]
6506       },
6507       "Sjalvstandig": false
6508     },
6509     "Utbildningstyp": {
6510       "Benamningar": {
6511         "sv": "Kurs, grundnivå (inkl. attribut från 1993 års studieordning)",
6512         "en": "Course, First-cycle (including attributes from the study regulation of 1993)"
6513       },
6514       "Giltighetsperiod": {},
6515       "Grundtyp": "KURS",
6516       "ID": 105630,
6517       "Kod": "0793GKURS",
6518       "RegelverkForUtbildningstyp": {
6519         "Regelvarden": [
6520           {
6521             "Regelnamn": "commons.domain.regel.avbrottsregel",
6522             "Varde": "20"
6523           },
6524           {
6525             "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
6526             "Varde": "true"
6527           },
6528           {
6529             "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6530             "Varde": "grupp.for.utsokning.grundavanceradniva"
6531           }
6532         ]
6533       },
6534       "Sjalvstandig": true
6535     },
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6536     "Utbildningsversion": 1
6537   }
6538 },
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6541   "Avklarad": true,
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6543   "HarTillgodoraknande": false,
6544   "LarosateID": 29,
6545   "Nuvarande": true,
6546   "Paborjad": true,
6547   "Perioddeltaganden": [
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6549       "Anpassat": false,
6550       "Omfattningsvarde": "30.0",
6551       "Periodbenamningar": {},
6552       "PerioddeltagandeUID": "9a27a7e1-73f2-11e8-b9fd-0a821ba7448e",
6553       "Periodindex": 1,
6554       "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
6555       "UtbildningsPeriodFran": "2011-01-10",
6556       "UtbildningsPeriodTill": "2011-05-28"
6557     }
6558   ],
6559   "Sparrad": false,
6560   "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
6561   "SummeradGodkandOmfattning": "30.0",
6562   "SummeradHeltTillgodoraknadOmfattning": "0.0",
6563   "SummeradTillgodoraknadOmfattning": "0.0",
6564   "TillstandKurs": {
6565     "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
6566     "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
6567     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
6568     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
6569   },
6570   "Uid": "9a2759bd-73f2-11e8-b9fd-0a821ba7448e",
6571   "Utbildningsinformation": {
6572     "AntalPerioder": 1,
6573     "Benamning": {
6574       "sv": "Examensarbete inom teknik och lärande, avancerad nivå",
6575       "en": "Degree Project in Technology and Learning, Second Cycle"
6576     },
6577     "Enhetskod": "HP",
6578     "FinansieringsformID": 101050,
6579     "LarosateID": 29,
6580     "Omfattningsvarde": "30.0",
6581     "PeriodIOrdning": "0",
6582     "Perioder": [
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6585         "Omfattningsvarde": "30.0",
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6589     }
6590 ],
6591 "SarskildSekretessprovning": false,
6592 "Studielokalisering": {
6593     "sv": "Stockholm",
6594     "en": "Stockholm"
6595 },
6596 "Studielokaliseringrepresentation": {
6597     "Benamningar": {
6598         "sv": "Stockholm",
6599         "en": "Stockholm"
6600     },
6601     "Giltighetsperiod": {
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6603         "Startdatum": "1917-10-19"
6604     },
6605     "ID": 131778,
6606     "Kod": "0180"
6607 },
6608 "StudieordningID": "1",
6609 "Studieperiod": {
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6611     "Startdatum": "2011-01-10"
6612 },
6613 "Studietakt": {
6614     "Benamning": {
6615         "sv": "Helfart",
6616         "en": "Full-time"
6617     },
6618     "Takt": 100
6619 },
6620 "Undervisningsform": {
6621     "Benamningar": {
6622         "sv": "Normal",
6623         "en": "Normal teaching"
6624     },
6625     "Giltighetsperiod": {},
6626     "ID": 1
6627 },
6628 "UtbildningUID": "7bd99fcc-73d8-11e8-afa7-8e408e694e54",
6629 "UtbildningensOmfattningsvarde": "30.0",
6630 "UtbildningsinstansUID": "7bd1d7bf-73d8-11e8-b4e0-063f9afb40e3",
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6632 "UtbildningstillfalleUID": "c3a86dac-73da-11e8-b4e0-063f9afb40e3",
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6634 "Utbildningstillfallestyp": {
6635     "Benamningar": {
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6637         "en": "Course instance"

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6638     },
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6647           "Varde": "true"
6648         },
6649         {
6650           "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
6651           "Varde": "true"
6652         },
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6654           "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
6655           "Varde": "varning"
6656         },
6657         {
6658           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6659           "Varde": "grupp.for.utsokning.grundavanceradniva"
6660         },
6661         {
6662           "Regelnamn": "commons.domain.regel.kan.utannonseras",
6663           "Varde": "true"
6664         }
6665       ]
6666     },
6667     "Sjalvstandig": false
6668   },
6669   "Utbildningstyp": {
6670     "Benamningar": {
6671       "sv": "Kurs, avancerad nivå",
6672       "en": "Course, Second-cycle"
6673     },
6674     "Giltighetsperiod": {},
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6676     "ID": 24,
6677     "Kod": "2007AKURS",
6678     "RegelverkForUtbildningstyp": {
6679       "Regelvarden": [
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6681           "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
6682           "Varde": "true"
6683         },
6684         {
6685           "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
6686           "Varde": "true"
6687         }
6688       ]

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6689         "Regelnamn": "commons.domain.regel.avbrottsregel",
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6695     },
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6700     {
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6702         "Varde": "grupp.for.utsokning.grundavanceradniva"
6703     },
6704     {
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6706         "Varde": "true"
6707     }
6708 ]
6709 },
6710 "Sjalvstandig": true
6711 },
6712 "Utbildningsversion": 1
6713 }
6714 },
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6717     "Avklarad": false,
6718     "HarTillgodoraknande": false,
6719     "LarosateID": 29,
6720     "Nuvarande": true,
6721     "Paborjad": true,
6722     "Perioddeltaganden": [
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6725             "Omfattningsvarde": "30.0",
6726             "Periodbenamningar": {},
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6728             "Periodindex": 1,
6729             "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
6730             "UtbildningsPeriodFran": "2007-08-31",
6731             "UtbildningsPeriodTill": "2008-01-11"
6732         }
6733     ],
6734     "Sparrad": false,
6735     "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
6736     "SummeradGodkandOmfattning": "7.5",
6737     "SummeradHeltTillgodoraknadOmfattning": "0.0",
6738     "SummeradTillgodoraknadOmfattning": "0.0",
6739     "TillstandKurs": {

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6740     "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avbrott",
6741     "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avbrott",
6742     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
6743     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avbrott"
6744 },
6745 "UId": "9a3207fb-73f2-11e8-b9fd-0a821ba7448e",
6746 "Utbildningsinformation": {
6747     "AntalPerioder": 1,
6748     "Benamning": {
6749         "sv": "Utbildningsvetenskapliga perspektiv, inkl VFU",
6750         "en": "Perspectives of Educational Science, incl Teaching Practice"
6751     },
6752     "Enhetskod": "HP",
6753     "FinansieringsformID": 131731,
6754     "LarosateID": 29,
6755     "Omfattningsvarde": "30.0",
6756     "PeriodIOrdning": "0",
6757     "Perioder": [
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6760             "Omfattningsvarde": "30.0",
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6762             "Startdatum": "2007-08-31",
6763             "UId": "c3afe766-73da-11e8-afa7-8e408e694e54"
6764         }
6765     ],
6766     "SarskildSekretessprovning": false,
6767     "Studielokalisering": {
6768         "sv": "Stockholm",
6769         "en": "Stockholm"
6770     },
6771     "Studielokaliseringrepresentation": {
6772         "Benamningar": {
6773             "sv": "Stockholm",
6774             "en": "Stockholm"
6775         },
6776         "Giltighetsperiod": {
6777             "Slutdatum": "2019-01-14",
6778             "Startdatum": "1917-10-19"
6779         },
6780         "ID": 131778,
6781         "Kod": "0180"
6782     },
6783     "StudieordningID": "1",
6784     "Studieperiod": {
6785         "Slutdatum": "2008-01-11",
6786         "Startdatum": "2007-08-31"
6787     },
6788     "Studietakt": {
6789         "Benamning": {
6790             "sv": "Helfart",

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6791     "en": "Full-time"
6792   },
6793   "Takt": 100
6794 },
6795 "Undervisningsform": {
6796   "Benamningar": {
6797     "sv": "Normal",
6798     "en": "Normal teaching"
6799   },
6800   "Giltighetsperiod": {},
6801   "ID": 1
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6803 "UtbildningUID": "7bebc833-73d8-11e8-afa7-8e408e694e54",
6804 "UtbildningensOmfattningsvarde": "30.0",
6805 "UtbildningsinstansUID": "7bd92ac2-73d8-11e8-b4e0-063f9afb40e3",
6806 "Utbildningskod": "SAU02N",
6807 "UtbildningstillfalleUID": "c3af99a9-73da-11e8-b4e0-063f9afb40e3",
6808 "Utbildningstillfalleskod": "X0403",
6809 "Utbildningstillfallestyp": {
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6811     "sv": "Kurstillfälle (inkl. attribut från 1993 års studieordning)",
6812     "en": "Course instance (including attributes from the study regulation of 1993)"
6813   },
6814   "Giltighetsperiod": {},
6815   "Grundtyp": "KURS",
6816   "ID": 105632,
6817   "Kod": "0793KTF",
6818   "RegelverkForUtbildningstyp": {
6819     "Regelvarden": [
6820       {
6821         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6822         "Varde": "grupp.for.utsokning.grundavanceradniva"
6823       },
6824       {
6825         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
6826         "Varde": "true"
6827       }
6828     ]
6829   },
6830   "Sjalvstandig": false
6831 },
6832 "Utbildningstyp": {
6833   "Benamningar": {
6834     "sv": "Kurs, grundnivå (inkl. attribut från 1993 års studieordning)",
6835     "en": "Course, First-cycle (including attributes from the study regulation of 1993)"
6836   },
6837   "Giltighetsperiod": {},
6838   "Grundtyp": "KURS",
6839   "ID": 105630,
6840   "Kod": "0793GKURS",
6841   "RegelverkForUtbildningstyp": {

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6845         "Varde": "20"
6846       },
6847       {
6848         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
6849         "Varde": "true"
6850       },
6851       {
6852         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6853         "Varde": "grupp.for.utsokning.grundavanceradniva"
6854       }
6855     ]
6856   },
6857   "Sjalvstandig": true
6858 },
6859 "Utbildningsversion": 1
6860 }
6861 },
6862 {
6863   "Aterbud": false,
6864   "Avklarad": true,
6865   "Godkannandedatum": "2011-10-17",
6866   "HarTillgodoraknande": false,
6867   "LarosateID": 29,
6868   "Nuvarande": true,
6869   "Paborjad": true,
6870   "Perioddeltaganden": [
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6872       "Anpassat": false,
6873       "Omfattningsvarde": "4.5",
6874       "Periodbenamningar": {},
6875       "PerioddeltagandeUID": "9a3f4e6a-73f2-11e8-b9fd-0a821ba7448e",
6876       "Periodindex": 1,
6877       "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
6878       "UtbildningsPeriodFran": "2007-08-31",
6879       "UtbildningsPeriodTill": "2008-01-11"
6880     },
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6882       "Anpassat": false,
6883       "Omfattningsvarde": "1.5",
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6885       "PerioddeltagandeUID": "9a3f4e6b-73f2-11e8-b9fd-0a821ba7448e",
6886       "Periodindex": 2,
6887       "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
6888       "UtbildningsPeriodFran": "2008-01-14",
6889       "UtbildningsPeriodTill": "2008-05-26"
6890     }
6891   ],
6892   "Sparrad": false,

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6893 "Studiestrukturereferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
6894 "SummeradGodkandOmfattning": "6.0",
6895 "SummeradHeltTillgodoraknadOmfattning": "0.0",
6896 "SummeradTillgodoraknadOmfattning": "0.0",
6897 "TillstandKurs": {
6898   "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
6899   "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
6900   "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
6901   "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
6902 },
6903 "UId": "9a3f2755-73f2-11e8-b9fd-0a821ba7448e",
6904 "Utbildningsinformation": {
6905   "AntalPerioder": 2,
6906   "Benamning": {
6907     "sv": "Differentialekvationer och transformer III",
6908     "en": "Differential Equations and Transforms III"
6909   },
6910   "Enhetskod": "HP",
6911   "FinansieringsformID": 101050,
6912   "LarosateID": 29,
6913   "Omfattningsvarde": "6.0",
6914   "PeriodIOrdning": "0",
6915   "Perioder": [
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6918       "Omfattningsvarde": "4.5",
6919       "Slutdatum": "2008-01-11",
6920       "Startdatum": "2007-08-31",
6921       "UId": "c7cd5fa3-73da-11e8-afa7-8e408e694e54"
6922     },
6923     {
6924       "Index": 2,
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6926       "Slutdatum": "2008-05-26",
6927       "Startdatum": "2008-01-14",
6928       "UId": "c7cd5fa4-73da-11e8-afa7-8e408e694e54"
6929     }
6930   ],
6931   "SarskildSekretessprovning": false,
6932   "Studielokalisering": {
6933     "sv": "Stockholm",
6934     "en": "Stockholm"
6935   },
6936   "Studielokaliseringrepresentation": {
6937     "Benamningar": {
6938       "sv": "Stockholm",
6939       "en": "Stockholm"
6940     },
6941     "Giltighetsperiod": {
6942       "Slutdatum": "2019-01-14",
6943       "Startdatum": "1917-10-19"

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6944     },
6945     "ID": 131778,
6946     "Kod": "0180"
6947 },
6948 "StudieordningID": "1",
6949 "Studieperiod": {
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6951     "Startdatum": "2007-08-31"
6952 },
6953 "Studietakt": {
6954     "Benamning": {
6955         "sv": "Helfart",
6956         "en": "Full-time"
6957     },
6958     "Takt": 100
6959 },
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6962         "sv": "Normal",
6963         "en": "Normal teaching"
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6969 "UtbildningensOmfattningsvarde": "6.0",
6970 "UtbildningsinstansUID": "7f46653c-73d8-11e8-b4e0-063f9afb40e3",
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6972 "UtbildningstillfalleUID": "c7cd37d2-73da-11e8-b4e0-063f9afb40e3",
6973 "Utbildningstillfalleskod": "Q0044",
6974 "Utbildningstillfallestyp": {
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6976         "sv": "Kurstillfälle",
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6978     },
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6980     "Grundtyp": "KURS",
6981     "ID": 52,
6982     "Kod": "2007KTF",
6983     "RegelverkForUtbildningstyp": {
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6999         "Varde": "grupp.for.utsokning.grundavanceradniva"
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7003         "Varde": "true"
7004     }
7005 ]
7006 },
7007 "Sjalvstandig": false
7008 },
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7012         "en": "Course, First-cycle"
7013     },
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7018     "RegelverkForUtbildningstyp": {
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7023             },
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7031             },
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7034                 "Varde": "20"
7035             },
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7038                 "Varde": "true"
7039             },
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7060     "LarosateID": 29,
7061     "Nuvarande": true,
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7071         "UtbildningsPeriodFran": "2008-08-29",
7072         "UtbildningsPeriodTill": "2009-01-10"
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7079     "SummeradTillgodoraknadOmfattning": "0.0",
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7083         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
7084         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
7085     },
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7087     "Utbildningsinformation": {
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7090             "sv": "Matematisk statistik, allmän kurs",
7091             "en": "Mathematical Statistics, Basic Course"
7092         },
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7094         "FinansieringsformID": 101050,
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7105         }
7106     ],
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7111     },
7112     "Studielokaliseringrepresentation": {
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7132             "en": "Full-time"
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7134         "Takt": 100
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7139             "en": "Normal teaching"
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7153             "en": "Course instance"
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7158         "Kod": "2007KTF",
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7171                     "Varde": "varning"
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7175                     "Varde": "grupp.for.utsokning.grundavanceradniva"
7176                 },
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7188             "en": "Course, First-cycle"
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7192         "ID": 22,
7193         "Kod": "2007GKURS",
7194         "RegelverkForUtbildningstyp": {
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7211     },
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7214         "Varde": "true"
7215     },
7216     {
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7218         "Varde": "true"
7219     },
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7222         "Varde": "true"
7223     }
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7225 },
7226 "Själavstandig": true
7227 },
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7229 }
7230 },
7231 {
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7237     "Nuvarande": true,
7238     "Paborjad": true,
7239     "Perioddeltaganden": [
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7245         "Periodindex": 1,
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7259   "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
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7267     "en": "Mathematics, Advanced Course"
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7343                     "Varde": "true"
7344                 },
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7347                     "Varde": "varning"
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7351                     "Varde": "grupp.for.utsokning.grundavanceradniva"

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7412   "Nuvarande": true,
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7435     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.paborjad"
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7461     "en": "Stockholm"
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7466         "en": "Stockholm"
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7470         "Startdatum": "1917-10-19"
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7504         "en": "Course instance"

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7515         },
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7518           "Varde": "true"
7519         },
7520         {
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7522           "Varde": "varning"
7523         },
7524         {
7525           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
7526           "Varde": "grupp.for.utsokning.grundavanceradniva"
7527         },
7528         {
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7530           "Varde": "true"
7531         }
7532       ]
7533     },
7534     "Sjalvstandig": false
7535   },
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7539       "en": "Course, Second-cycle"
7540     },
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7553           "Varde": "true"
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7561         "Varde": "true"
7562     },
7563     {
7564         "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
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7566     },
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7569         "Varde": "grupp.for.utsokning.grundavanceradniva"
7570     },
7571     {
7572         "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
7573         "Varde": "true"
7574     }
7575 ]
7576 },
7577 "Sjalvstandig": true
7578 },
7579 "Utbildningsversion": 1
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7581 },
7582 {
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7584     "Avklarad": true,
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7586     "HarTillgodoraknande": false,
7587     "LarosateID": 29,
7588     "Nuvarande": true,
7589     "Paborjad": true,
7590     "Perioddeltaganden": [
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7593             "Omfattningsvarde": "3.0",
7594             "Periodbenamningar": {},
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7596             "Periodindex": 1,
7597             "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
7598             "UtbildningsPeriodFran": "2009-08-28",
7599             "UtbildningsPeriodTill": "2010-01-08"
7600         },
7601         {
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7603             "Omfattningsvarde": "3.0",
7604             "Periodbenamningar": {},
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7609         "UtbildningsPeriodTill": "2010-05-29"
7610     }
7611 ],
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7614 "SummeradGodkandOmfattning": "6.0",
7615 "SummeradHeltTillgodoraknadOmfattning": "0.0",
7616 "SummeradTillgodoraknadOmfattning": "0.0",
7617 "TillstandKurs": {
7618     "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
7619     "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
7620     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
7621     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
7622 },
7623 "UId": "9a752b1c-73f2-11e8-b9fd-0a821ba7448e",
7624 "Utbildningsinformation": {
7625     "AntalPerioder": 2,
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7627         "sv": "Matematiskt forum III",
7628         "en": "Mathematical Forum III"
7629     },
7630     "Enhetskod": "HP",
7631     "FinansieringsformID": 101050,
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7633     "Omfattningsvarde": "6.0",
7634     "PeriodIOrdning": "0",
7635     "Perioder": [
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7637             "Index": 1,
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7642         },
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7649         }
7650     ],
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7655     },
7656     "Studielokaliseringrepresentation": {
7657         "Benamningar": {

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7665     "ID": 131778,
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7671     "Startdatum": "2009-08-28"
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7675         "sv": "Helfart",
7676         "en": "Full-time"
7677     },
7678     "Takt": 100
7679 },
7680 "Undervisningsform": {
7681     "Benamningar": {
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7683         "en": "Normal teaching"
7684     },
7685     "Giltighetsperiod": {},
7686     "ID": 1
7687 },
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7692 "UtbildningstillfalleUID": "c968238f-73da-11e8-b4e0-063f9afb40e3",
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7697         "en": "Course instance"
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7700     "Grundtyp": "KURS",
7701     "ID": 52,
7702     "Kod": "2007KTF",
7703     "RegelverkForUtbildningstyp": {
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7707                 "Varde": "true"
7708             }

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7717         {
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7720         },
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7728 },
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7732         "en": "Course, Second-cycle"
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7737     "Kod": "2007AKURS",
7738     "RegelverkForUtbildningstyp": {
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7742                 "Varde": "true"
7743             },
7744             {
7745                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
7746                 "Varde": "true"
7747             },
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7750                 "Varde": "20"
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7766             "Varde": "true"
7767         }
7768     ],
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7771 },
7772 "Utbildningsversion": 1
7773 }
7774 },
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7779     "HarTillgodoraknande": false,
7780     "LarosateID": 29,
7781     "Nuvarande": true,
7782     "Paborjad": true,
7783     "Perioddeltaganden": [
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7786             "Omfattningsvarde": "7.5",
7787             "Periodbenamningar": {},
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7794     ],
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7803         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
7804         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
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7824     "UId": "cde71bdf-73da-11e8-afa7-8e408e694e54"
7825   }
7826 ],
7827 "SarskildSekretessprovning": false,
7828 "Studielokalisering": {
7829   "sv": "Stockholm",
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7849 "Studietakt": {
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7852     "en": "Full-time"
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7854   "Takt": 100
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7866 "UtbildningsinstansUID": "84eb8dc3-73d8-11e8-b4e0-063f9afb40e3",
7867 "Utbildningskod": "SK1131",
7868 "UtbildningstillfalleUID": "cde6ce11-73da-11e8-b4e0-063f9afb40e3",
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7877     "ID": 52,
7878     "Kod": "2007KTF",
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7899                 "Varde": "true"
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7901         ]
7902     },
7903     "Sjalvstandig": false
7904 },
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7935         },
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7939         },
7940         {
7941           "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
7942           "Varde": "true"
7943         }
7944       ]
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7947   },
7948   "Utbildningsversion": 1
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7956   "LarosateID": 29,
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7958   "Paborjad": true,
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7968         "UtbildningsPeriodTill": "2009-06-07"
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7974 "SummeradHeltTillgodoraknadOmfattning": "0.0",
7975 "SummeradTillgodoraknadOmfattning": "0.0",
7976 "TillstandKurs": {
7977     "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
7978     "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
7979     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
7980     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
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7982 "Uid": "9a9adbfe-73f2-11e8-b9fd-0a821ba7448e",
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7987         "en": "Identity Formation and Socialization"
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8041 "UtbildningensOmfattningsvarde": "7.5",
8042 "UtbildningsinstansUID": "87bbebc4-73d8-11e8-b4e0-063f9afb40e3",
8043 "Utbildningskod": "UBK400",
8044 "UtbildningstillfalleUID": "d0b09c59-73da-11e8-b4e0-063f9afb40e3",
8045 "Utbildningstillfalleskod": "61538",
8046 "Utbildningstillfallestyp": {
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8078 },
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8143         "UtbildningsPeriodFran": "2009-01-19",
8144         "UtbildningsPeriodTill": "2009-03-15"
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8204             "en": "Full-time"
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8225             "en": "Course instance"
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8415                     "Varde": "true"
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8571 "Utbildningskod": "UDK200",
8572 "UtbildningstillfalleUID": "d0c97bc3-73da-11e8-b4e0-063f9afb40e3",
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8610     "Benamningar": {
8611         "sv": "Kurs, grundnivå",
8612         "en": "Course, First-cycle"
8613     },
8614     "Giltighetsperiod": {},
8615     "Grundtyp": "KURS",
8616     "ID": 22,
8617     "Kod": "2007GKURS",
8618     "RegelverkForUtbildningstyp": {
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8621                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
8622                 "Varde": "true"
8623             },
8624             {
8625                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
8626                 "Varde": "grupp.for.utsokning.grundavanceradniva"

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8630       "Varde": "true"
8631     },
8632     {
8633       "Regelnamn": "commons.domain.regel.avbrottsregel",
8634       "Varde": "20"
8635     },
8636     {
8637       "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
8638       "Varde": "true"
8639     },
8640     {
8641       "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
8642       "Varde": "true"
8643     },
8644     {
8645       "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
8646       "Varde": "true"
8647     }
8648   ]
8649 },
8650 "Sjalvstandig": true
8651 },
8652 "Utbildningsversion": 1
8653 }
8654 },
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8659   "HarTillgodoraknande": false,
8660   "LarosateID": 29,
8661   "Nuvarande": true,
8662   "Paborjad": true,
8663   "Perioddeltaganden": [
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8665       "Anpassat": false,
8666       "Omfattningsvarde": "15.0",
8667       "Periodbenamningar": {},
8668       "PerioddeltagandeUID": "9ac6ce14-73f2-11e8-b9fd-0a821ba7448e",
8669       "Periodindex": 1,
8670       "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
8671       "UtbildningsPeriodFran": "2009-10-26",
8672       "UtbildningsPeriodTill": "2010-01-24"
8673     }
8674   ],
8675   "Sparrad": false,
8676   "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
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8679 "SummeradTillgodoraknadOmfattning": "0.0",
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8682   "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
8683   "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
8684   "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
8685 },
8686 "UId": "9ac658de-73f2-11e8-b9fd-0a821ba7448e",
8687 "Utbildningsinformation": {
8688   "AntalPerioder": 1,
8689   "Benamning": {
8690     "sv": "Verka i skolan - ämnesdidaktik",
8691     "en": "Pedagogical Content Knowledge - in School Service"
8692   },
8693   "Enhetskod": "HP",
8694   "FinansieringsformID": 131731,
8695   "LarosateID": 29,
8696   "Omfattningsvarde": "15.0",
8697   "PeriodIOrdning": "0",
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8703       "Startdatum": "2009-10-26",
8704       "UId": "d12d1eeb-73da-11e8-afa7-8e408e694e54"
8705     }
8706   ],
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8710     "en": "Stockholm"
8711   },
8712   "Studielokaliseringrepresentation": {
8713     "Benamningar": {
8714       "sv": "Stockholm",
8715       "en": "Stockholm"
8716     },
8717     "Giltighetsperiod": {
8718       "Slutdatum": "2019-01-14",
8719       "Startdatum": "1917-10-19"
8720     },
8721     "ID": 131778,
8722     "Kod": "0180"
8723   },
8724   "StudieordningID": "1",
8725   "Studieperiod": {
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8727     "Startdatum": "2009-10-26"
8728   },

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8731             "sv": "Helfart",
8732             "en": "Full-time"
8733         },
8734         "Takt": 100
8735     },
8736     "Undervisningsform": {
8737         "Benamningar": {
8738             "sv": "Normal",
8739             "en": "Normal teaching"
8740         },
8741         "Giltighetsperiod": {},
8742         "ID": 1
8743     },
8744     "UtbildningUID": "8841491f-73d8-11e8-afa7-8e408e694e54",
8745     "UtbildningensOmfattningsvarde": "15.0",
8746     "UtbildningsinstansUID": "882c3a4e-73d8-11e8-b4e0-063f9afb40e3",
8747     "Utbildningskod": "UMK800",
8748     "UtbildningstillfalleUID": "d12ca9a7-73da-11e8-b4e0-063f9afb40e3",
8749     "Utbildningstillfalleskod": "71373",
8750     "Utbildningstillfallestyp": {
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8753             "en": "Course instance"
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8756         "Grundtyp": "KURS",
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8758         "Kod": "2007KTF",
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8763                     "Varde": "true"
8764                 },
8765                 {
8766                     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
8767                     "Varde": "true"
8768                 },
8769                 {
8770                     "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
8771                     "Varde": "varning"
8772                 },
8773                 {
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8775                     "Varde": "grupp.for.utsokning.grundavanceradniva"
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8779                     "Varde": "true"

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8781   ]
8782 },
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8784 },
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8788       "en": "Course, Second-cycle"
8789     },
8790     "Giltighetsperiod": {},
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8792     "ID": 24,
8793     "Kod": "2007AKURS",
8794     "RegelverkForUtbildningstyp": {
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8798           "Varde": "true"
8799         },
8800         {
8801           "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
8802           "Varde": "true"
8803         },
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8805           "Regelnamn": "commons.domain.regel.avbrottsregel",
8806           "Varde": "20"
8807         },
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8810           "Varde": "true"
8811         },
8812         {
8813           "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
8814           "Varde": "true"
8815         },
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8817           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
8818           "Varde": "grupp.for.utsokning.grundavanceradniva"
8819         },
8820         {
8821           "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
8822           "Varde": "true"
8823         }
8824       ]
8825     },
8826     "Själavstandig": true
8827 },
8828   "Utbildningsversion": 1
8829 }
8830 },

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8836   "LarosateID": 29,
8837   "Nuvarande": true,
8838   "Paborjad": true,
8839   "Perioddeltaganden": [
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8841       "Anpassat": false,
8842       "Omfattningsvarde": "7.5",
8843       "Periodbenamningar": {},
8844       "PerioddeltagandeUID": "9ad28dc3-73f2-11e8-b9fd-0a821ba7448e",
8845       "Periodindex": 1,
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8847       "UtbildningsPeriodFran": "2010-08-27",
8848       "UtbildningsPeriodTill": "2010-10-31"
8849     }
8850   ],
8851   "Sparrad": false,
8852   "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
8853   "SummeradGodkandOmfattning": "7.5",
8854   "SummeradHeltTillgodoraknadOmfattning": "0.0",
8855   "SummeradTillgodoraknadOmfattning": "0.0",
8856   "TillstandKurs": {
8857     "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
8858     "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
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8867       "en": "Challenges for Special Education - Youth and Adults"
8868     },
8869     "Enhetskod": "HP",
8870     "FinansieringsformID": 131731,
8871     "LarosateID": 29,
8872     "Omfattningsvarde": "7.5",
8873     "PeriodIOrdning": "0",
8874     "Perioder": [
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8876         "Index": 1,
8877         "Omfattningsvarde": "7.5",
8878         "Slutdatum": "2010-10-31",
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8881       }

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8895     "Startdatum": "1917-10-19"
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8911 },
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8915     "en": "Normal teaching"
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8921 "UtbildningensOmfattningsvarde": "7.5",
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8923 "Utbildningskod": "UQK700",
8924 "UtbildningstillfalleUID": "d1523361-73da-11e8-b4e0-063f9afb40e3",
8925 "Utbildningstillfalleskod": "91345",
8926 "Utbildningstillfallestyp": {
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8929     "en": "Course instance"
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8941             {
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8943                 "Varde": "true"
8944             },
8945             {
8946                 "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
8947                 "Varde": "varning"
8948             },
8949             {
8950                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
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8952             },
8953             {
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8955                 "Varde": "true"
8956             }
8957         ]
8958     },
8959     "Sjalvstandig": false
8960 },
8961 "Utbildningstyp": {
8962     "Benamningar": {
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8964         "en": "Course, Second-cycle"
8965     },
8966     "Giltighetsperiod": {},
8967     "Grundtyp": "KURS",
8968     "ID": 24,
8969     "Kod": "2007AKURS",
8970     "RegelverkForUtbildningstyp": {
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8972             {
8973                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
8974                 "Varde": "true"
8975             },
8976             {
8977                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
8978                 "Varde": "true"
8979             },
8980             {
8981                 "Regelnamn": "commons.domain.regel.avbrottsregel",
8982                 "Varde": "20"
8983             }

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8989             "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
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8995         },
8996         {
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8999         }
9000     ]
9001 },
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9003 },
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9005 }
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9028             "UtbildningsPeriodTill": "2018-06-04"
9029         }
9030     ],
9031     "Sparrad": false,
9032     "Studiestrukturreferens": "8d2faf86-73d9-11e8-b9fd-0a821ba7448e,null",
9033     "SummeradGodkandOmfattning": "5.0",
9034     "SummeradHeltTillgodoraknadOmfattning": "0.0",

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9035     "SummeradTillgodoraknadOmfattning": "0.0",
9036     "TillstandKurs": {
9037         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
9038         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
9039         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
9040         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
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9042     "UId": "b8444cc2-af6d-11e8-b2d8-8f5393644fae",
9043     "Utbildningsinformation": {
9044         "AntalPerioder": 1,
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9047             "en": "Conducting Systematic Literature Reviews in Systems Engineering"
9048         },
9049         "Enhetskod": "HP",
9050         "FinansieringsformID": 131713,
9051         "LarosateID": 29,
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9053         "PeriodIOrdning": "0",
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9061             }
9062         ],
9063         "SarskildSekretessprovning": false,
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9066             "en": "Stockholm"
9067         },
9068         "Studielokaliseringrepresentation": {
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9071                 "en": "Stockholm"
9072             },
9073             "Giltighetsperiod": {
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9075                 "Startdatum": "1917-10-19"
9076             },
9077             "ID": 131778,
9078             "Kod": "O180"
9079         },
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9081         "Studieperiod": {
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9083             "Startdatum": "2018-03-19"
9084         },
9085         "Studietakt": {

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9088         "en": "One-quarter-time"
9089     },
9090     "Takt": 25
9091 },
9092 "Undervisningsform": {
9093     "Benamningar": {
9094         "sv": "Normal",
9095         "en": "Normal teaching"
9096     },
9097     "Giltighetsperiod": {},
9098     "ID": 1
9099 },
9100 "UtbildningUID": "9b5a3301-73d8-11e8-afa7-8e408e694e54",
9101 "UtbildningensOmfattningsvarde": "5.0",
9102 "UtbildningsinstansUID": "9b5a0c26-73d8-11e8-b4e0-063f9afb40e3",
9103 "Utbildningskod": "FJP3101",
9104 "UtbildningstillfalleUID": "54533c35-7ddf-11e8-9a5f-3c9998814fb7",
9105 "Utbildningstillfalleskod": "61354",
9106 "Utbildningstillfallestyp": {
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9109         "en": "Course instance, Third-cycle"
9110     },
9111     "Giltighetsperiod": {},
9112     "Grundtyp": "KURS",
9113     "ID": 101955,
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9119                 "Varde": "true"
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9121             {
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9124             }
9125         ]
9126     },
9127     "Sjalvstandig": false
9128 },
9129 "Utbildningstyp": {
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9131         "sv": "Kurs, forskarnivå",
9132         "en": "Course, Third-cycle"
9133     },
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9136     "ID": 101954,

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9143         },
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9146           "Varde": "true"
9147         },
9148         {
9149           "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
9150           "Varde": "true"
9151         },
9152         {
9153           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
9154           "Varde": "grupp.for.utsokning.forskarniva"
9155         }
9156       ]
9157     },
9158     "Sjalvstandig": true
9159   },
9160   "Utbildningsversion": 1
9161 }
9162 },
9163 {
9164   "Aterbud": false,
9165   "Avklarad": false,
9166   "HarTillgodoraknande": false,
9167   "LarosateID": 29,
9168   "Nuvarande": true,
9169   "Paborjad": true,
9170   "Perioddeltaganden": [
9171     {
9172       "Anpassat": false,
9173       "Omfattningsvarde": "5.0",
9174       "Periodbenamningar": {},
9175       "PerioddeltagandeUID": "a6776912-f00f-11e9-8679-1d653f8f4f42",
9176       "Periodindex": 1,
9177       "Registreringsperiod": {
9178         "Slutdatum": "2019-09-02",
9179         "Startdatum": "2019-08-22"
9180       },
9181       "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
9182       "UtbildningsPeriodFran": "2019-08-26",
9183       "UtbildningsPeriodTill": "2019-10-25"
9184     }
9185   ],
9186   "Sparrad": false,
9187   "Studiestrukturereferens": "8d2faf86-73d9-11e8-b9fd-0a821ba7448e,null",

```

```

9188     "SummeradGodkandOmfattning": "0.0",
9189     "SummeradHeltTillgodoraknadOmfattning": "0.0",
9190     "SummeradTillgodoraknadOmfattning": "0.0",
9191     "TillstandKurs": {
9192         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.registrerad",
9193         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
9194         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
9195         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.paborjad"
9196     },
9197     "UId": "a676f3e1-f00f-11e9-8679-1d653f8f4f42",
9198     "Utbildningsinformation": {
9199         "AntalPerioder": 1,
9200         "Benamning": {
9201             "sv": "Forskningsmetoder i teknikstött lärande",
9202             "en": "Research Methods in Technology Enhanced Learning"
9203         },
9204         "Enhetskod": "HP",
9205         "FinansieringsformID": 131713,
9206         "LarosateID": 29,
9207         "Omfattningsvarde": "5.0",
9208         "PeriodIOrdning": "0",
9209         "Perioder": [
9210             {
9211                 "Index": 1,
9212                 "Omfattningsvarde": "5.0",
9213                 "Slutdatum": "2019-10-25",
9214                 "Startdatum": "2019-08-26",
9215                 "UId": "f6d43058-91b5-11e9-be70-a303c1114884"
9216             }
9217         ],
9218         "SarskildSekretessprovning": false,
9219         "Studielokalisering": {
9220             "sv": "KTH Campus",
9221             "en": "KTH Campus"
9222         },
9223         "Studielokaliseringrepresentation": {
9224             "Benamningar": {
9225                 "sv": "KTH Campus",
9226                 "en": "KTH Campus"
9227             },
9228             "Giltighetsperiod": {
9229                 "Startdatum": "2018-06-20"
9230             },
9231             "ID": 135195,
9232             "Kod": "KTHCAMPUS"
9233         },
9234         "StudieordningID": "1",
9235         "Studieperiod": {
9236             "Slutdatum": "2019-10-25",
9237             "Startdatum": "2019-08-26"
9238         },

```

```

9239     "Studietakt": {
9240         "Benamning": {
9241             "sv": "Tredjedelsfart",
9242             "en": "One-third-time"
9243         },
9244         "Takt": 33
9245     },
9246     "Undervisningsform": {
9247         "Benamningar": {
9248             "sv": "Normal",
9249             "en": "Normal teaching"
9250         },
9251         "Giltighetsperiod": {},
9252         "ID": 1
9253     },
9254     "UtbildningUID": "1a16606c-8c10-11e9-be70-a303c1114884",
9255     "UtbildningensOmfattningsvarde": "5.0",
9256     "UtbildningsinstansUID": "1a166069-8c10-11e9-be70-a303c1114884",
9257     "Utbildningskod": "FDH3363",
9258     "UtbildningstillfalleUID": "f6d43053-91b5-11e9-be70-a303c1114884",
9259     "Utbildningstillfalleskod": "51409",
9260     "Utbildningstillfallestyp": {
9261         "Benamningar": {
9262             "sv": "Kurstillfälle, forskarnivå",
9263             "en": "Course instance, Third-cycle"
9264         },
9265         "Giltighetsperiod": {},
9266         "Grundtyp": "KURS",
9267         "ID": 101955,
9268         "Kod": "2007FKTF",
9269         "RegelverkForUtbildningstyp": {
9270             "Regelvarden": [
9271                 {
9272                     "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
9273                     "Varde": "true"
9274                 },
9275                 {
9276                     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
9277                     "Varde": "grupp.for.utsokning.forskarniva"
9278                 }
9279             ]
9280         },
9281         "Sjalvstandig": false
9282     },
9283     "Utbildningstyp": {
9284         "Benamningar": {
9285             "sv": "Kurs, forskarnivå",
9286             "en": "Course, Third-cycle"
9287         },
9288         "Giltighetsperiod": {},
9289         "Grundtyp": "KURS",

```



```

9290     "ID": 101954,
9291     "Kod": "2007FKURS",
9292     "RegelverkForUtbildningstyp": {
9293         "Regelvarden": [
9294             {
9295                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
9296                 "Varde": "true"
9297             },
9298             {
9299                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
9300                 "Varde": "true"
9301             },
9302             {
9303                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
9304                 "Varde": "true"
9305             },
9306             {
9307                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
9308                 "Varde": "grupp.for.utsokning.forskarniva"
9309             }
9310         ]
9311     },
9312     "Sjalvstandig": true
9313 },
9314     "Utbildningsversion": 1
9315 }
9316 },
9317 {
9318     "Aterbud": false,
9319     "Avklarad": false,
9320     "HarTillgodoraknande": false,
9321     "LarosateID": 29,
9322     "Nuvarande": true,
9323     "Paborjad": true,
9324     "Perioddeltaganden": [
9325         {
9326             "Anpassat": false,
9327             "Omfattningsvarde": "3.0",
9328             "Periodbenamningar": {},
9329             "PerioddeltagandeUID": "99835977-016c-11eb-8078-e6edba324a99",
9330             "Periodindex": 1,
9331             "Registreringsperiod": {
9332                 "Slutdatum": "2020-10-22",
9333                 "Startdatum": "2020-10-07"
9334             },
9335             "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
9336             "UtbildningsPeriodFran": "2020-10-21",
9337             "UtbildningsPeriodTill": "2021-01-15"
9338         }
9339     ],
9340     "Sparrad": false,

```

```

9341 "SummeradGodkandOmfattning": "0.0",
9342 "SummeradHeltTillgodoraknadOmfattning": "0.0",
9343 "SummeradTillgodoraknadOmfattning": "0.0",
9344 "TillstandKurs": {
9345   "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.registrerad",
9346   "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
9347   "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
9348   "Utbildning": "studiedeltagande.domain.tillstandsdefinition.paborjad"
9349 },
9350 "Uid": "99835976-016c-11eb-8078-e6edba324a99",
9351 "Utbildningsinformation": {
9352   "AntalPerioder": 1,
9353   "Benamning": {
9354     "sv": "Handledning och examination av examensarbete på grund och avancerad nivå",
9355     "en": "Supervision and Assessment of Degree Project Work in First and Second Cycle"
9356   },
9357   "Enhetskod": "HP",
9358   "FinansieringsformID": 131741,
9359   "LarosateID": 29,
9360   "Omfattningsvarde": "3.0",
9361   "PeriodIOrdning": "0",
9362   "Perioder": [
9363     {
9364       "Index": 1,
9365       "Omfattningsvarde": "3.0",
9366       "Slutdatum": "2021-01-15",
9367       "Startdatum": "2020-10-21",
9368       "Uid": "cedafe55-a634-11ea-a0cc-61a26a0147e7"
9369     }
9370   ],
9371   "SarskildSekretessprovning": false,
9372   "Studielokalisering": {
9373     "sv": "KTH Campus",
9374     "en": "KTH Campus"
9375   },
9376   "Studielokaliseringrepresentation": {
9377     "Benamningar": {
9378       "sv": "KTH Campus",
9379       "en": "KTH Campus"
9380     },
9381     "Giltighetsperiod": {
9382       "Startdatum": "2018-06-20"
9383     },
9384     "ID": 135195,
9385     "Kod": "KTHCAMPUS"
9386   },
9387   "StudieordningID": "1",
9388   "Studieperiod": {
9389     "Slutdatum": "2021-01-15",
9390     "Startdatum": "2020-10-21"
9391   },

```

```

9392     "Studietakt": {
9393         "Benamning": {
9394             "sv": "Sjättedelsfart",
9395             "en": "One-sixth-time"
9396         },
9397         "Takt": 17
9398     },
9399     "Undervisningsform": {
9400         "Benamningar": {
9401             "sv": "Normal",
9402             "en": "Normal teaching"
9403         },
9404         "Giltighetsperiod": {},
9405         "ID": 1
9406     },
9407     "UtbildningUID": "6483f61d-73d8-11e8-afa7-8e408e694e54",
9408     "UtbildningensOmfattningsvarde": "3.0",
9409     "UtbildningsinstansUID": "659a26c0-a0d9-11ea-a6be-cc3f59c64779",
9410     "Utbildningskod": "LH219V",
9411     "UtbildningstillfalleUID": "cedafe4d-a634-11ea-a0cc-61a26a0147e7",
9412     "Utbildningstillfalleskod": "50736",
9413     "Utbildningstillfallestyp": {
9414         "Benamningar": {
9415             "sv": "Kurstillfälle",
9416             "en": "Course instance"
9417         },
9418         "Giltighetsperiod": {},
9419         "Grundtyp": "KURS",
9420         "ID": 52,
9421         "Kod": "2007KTF",
9422         "RegelverkForUtbildningstyp": {
9423             "Regelvarden": [
9424                 {
9425                     "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
9426                     "Varde": "true"
9427                 },
9428                 {
9429                     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
9430                     "Varde": "true"
9431                 },
9432                 {
9433                     "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
9434                     "Varde": "varning"
9435                 },
9436                 {
9437                     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
9438                     "Varde": "grupp.for.utsokning.grundavanceradniva"
9439                 },
9440                 {
9441                     "Regelnamn": "commons.domain.regel.kan.utannonseras",
9442                     "Varde": "true"

```

```

9443     }
9444   ]
9445 },
9446   "Sjalvstandig": false
9447 },
9448   "Utbildningstyp": {
9449     "Benamningar": {
9450       "sv": "Kurs, avancerad nivå",
9451       "en": "Course, Second-cycle"
9452     },
9453     "Giltighetsperiod": {},
9454     "Grundtyp": "KURS",
9455     "ID": 24,
9456     "Kod": "2007AKURS",
9457     "RegelverkForUtbildningstyp": {
9458       "Regelvarden": [
9459         {
9460           "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
9461           "Varde": "true"
9462         },
9463         {
9464           "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
9465           "Varde": "true"
9466         },
9467         {
9468           "Regelnamn": "commons.domain.regel.avbrottsregel",
9469           "Varde": "20"
9470         },
9471         {
9472           "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
9473           "Varde": "true"
9474         },
9475         {
9476           "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
9477           "Varde": "true"
9478         },
9479         {
9480           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
9481           "Varde": "grupp.for.utsokning.grundavanceradniva"
9482         },
9483         {
9484           "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
9485           "Varde": "true"
9486         }
9487       ]
9488     },
9489     "Sjalvstandig": true
9490   },
9491   "Utbildningsversion": 3
9492 }
9493 }

```

9494]

17.5 registrations_on_course_JSON

This method returns all registrations for a particular course for a particular student. This way we can check if a student has been registered several times on a course.

```
342a <LadokSession data methods 126b>+=
def registrations_on_course_JSON(self, course_education_id, student_id):
    """
    Return a list of registrations on course with education_id for student with
    student_id. JSON format.
    """
    data = self.get_query(
        "/studiedeltagande/internal/tillfallesdeltagande"
        f"/utbildning/{course_education_id}/student/{student_id}",
        "application/vnd.ladok-studiedeltagande+json"
    )

    try:
        return data["Tillfallesdeltaganden"]
    except KeyError as err:
        err.add_note(f"Response data: {data}")
        raise LadokAPIError(f"Unexpected response format when fetching registrations for "
                             f"student {student_id} on course {course_education_id}: "
                             f"missing 'Tillfallesdeltaganden' key") from err
```

We add the following test.

```
342b <test functions 126a>+=
def test_registrations_on_course_JSON():
    results = ladok.registrations_on_course_JSON(dasak_education_id, student_uid)
    assert json.dumps(results, indent=2, ensure_ascii=False)
```

This code is used in chunk 121.

The output looks like this.

```
1  [
2  {
3      "Aterbud": false,
4      "Avklarad": true,
5      "Godkannandedatum": "2010-04-07",
6      "HarTillgodoraknande": false,
7      "LarosateID": 29,
8      "Nuvarande": true,
9      "Paborjad": true,
10     "Perioddeltaganden": [
11         {
12             "Anpassat": false,
13             "Omfattningsvarde": "6.0",
14             "Periodbenamningar": {},
15             "PerioddeltagandeUID": "9940554d-73f2-11e8-b9fd-0a821ba7448e",
16             "Periodindex": 1,
```

```

17         "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
18         "UtbildningsPeriodFran": "2010-01-18",
19         "UtbildningsPeriodTill": "2010-03-21"
20     }
21 ],
22 "Sparrad": false,
23 "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
24 "SummeradGodkandOmfattning": "6.0",
25 "SummeradHeltTillgodoraknadOmfattning": "0.0",
26 "SummeradTillgodoraknadOmfattning": "0.0",
27 "TillstandKurs": {
28     "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
29     "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
30     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
31     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
32 },
33 "UId": "99402e3c-73f2-11e8-b9fd-0a821ba7448e",
34 "Utbildningsinformation": {
35     "AntalPerioder": 1,
36     "Benamning": {
37         "sv": "Datasäkerhet",
38         "en": "Computer Security"
39     },
40     "Enhetskod": "HP",
41     "FinansieringsformID": 101050,
42     "LarosateID": 29,
43     "Omfattningsvarde": "6.0",
44     "PeriodIOrdning": "0",
45     "Perioder": [
46         {
47             "Index": 1,
48             "Omfattningsvarde": "6.0",
49             "Slutdatum": "2010-03-21",
50             "Startdatum": "2010-01-18",
51             "UId": "79a9402f-73da-11e8-afa7-8e408e694e54"
52         }
53     ],
54     "SarskildSekretessprovning": false,
55     "Studielokalisering": {
56         "sv": "Stockholm",
57         "en": "Stockholm"
58     },
59     "Studielokaliseringrepresentation": {
60         "Benamningar": {
61             "sv": "Stockholm",
62             "en": "Stockholm"
63         },
64         "Giltighetsperiod": {
65             "Slutdatum": "2019-01-14",
66             "Startdatum": "1917-10-19"
67         }
68     }
69 },

```

```

68     "ID": 131778,
69     "Kod": "0180"
70 },
71 "StudieordningID": "1",
72 "Studieperiod": {
73     "Slutdatum": "2010-03-21",
74     "Startdatum": "2010-01-18"
75 },
76 "Studietakt": {
77     "Benamning": {
78         "sv": "Helfart",
79         "en": "Full-time"
80     },
81     "Takt": 100
82 },
83 "Undervisningsform": {
84     "Benamningar": {
85         "sv": "Normal",
86         "en": "Normal teaching"
87     },
88     "Giltighetsperiod": {},
89     "ID": 1
90 },
91 "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
92 "UtbildningensOmfattningsvarde": "6.0",
93 "UtbildningsinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
94 "Utbildningskod": "DD2395",
95 "UtbildningstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
96 "Utbildningstillfalleskod": "81099",
97 "Utbildningstillfallestyp": {
98     "Benamningar": {
99         "sv": "Kurstillfälle",
100        "en": "Course instance"
101    },
102    "Giltighetsperiod": {},
103    "Grundtyp": "KURS",
104    "ID": 52,
105    "Kod": "2007KTF",
106    "RegelverkForUtbildningstyp": {
107        "Regelvarde": [
108            {
109                "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
110                "Varde": "true"
111            },
112            {
113                "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
114                "Varde": "true"
115            },
116            {
117                "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
118                "Varde": "varning"

```

```

119         },
120         {
121             "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
122             "Varde": "grupp.for.utsokning.grundavanceradniva"
123         },
124         {
125             "Regelnamn": "commons.domain.regel.kan.utannonseras",
126             "Varde": "true"
127         }
128     ]
129 },
130 "Sjalvstandig": false
131 },
132 "Utbildningstyp": {
133     "Benamningar": {
134         "sv": "Kurs, avancerad nivå",
135         "en": "Course, Second-cycle"
136     },
137     "Giltighetsperiod": {},
138     "Grundtyp": "KURS",
139     "ID": 24,
140     "Kod": "2007AKURS",
141     "RegelverkForUtbildningstyp": {
142         "Regelvarde": [
143             {
144                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
145                 "Varde": "true"
146             },
147             {
148                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
149                 "Varde": "true"
150             },
151             {
152                 "Regelnamn": "commons.domain.regel.avbrottsregel",
153                 "Varde": "20"
154             },
155             {
156                 "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
157                 "Varde": "true"
158             },
159             {
160                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
161                 "Varde": "true"
162             },
163             {
164                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
165                 "Varde": "grupp.for.utsokning.grundavanceradniva"
166             },
167             {
168                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
169                 "Varde": "true"

```



```

170         }
171     ]
172     },
173     "Sjalvstandig": true
174 },
175     "Utbildningsversion": 1
176 }
177 }
178 ]

```

17.6 studystucture_student_JSON

We also want to get a student's study structure, that is programmes that they are admitted to.

```

346a <LadokSession data methods 126b>+=
    # added by GQMJr
    def studystucture_student_JSON(self, uid):
        """
        Returns a dictionary of student information. This contains programmes that
        the student is admitted to.
        """
        r = self.session.get(
            url=self.base_gui_proxy_url +
            '/studiedeltagande/internal/studiestruktur/student/'+uid,
            headers=self.headers)
        if r.status_code == 200:
            return r.json()
        raise LadokAPIError(f"can't get study structure for student {uid}: {r.text}")

    Let's add a test. This should return a dictionary.

346b <test functions 126a>+=
    def test_studystucture_student_JSON():
        r = ladok.studystucture_student_JSON(student_uid)
        assert type(r) == dict

```

This code is used in chunk 121.

The output looks like this:

```

1  {
2      "Studiestrukturer": [
3          {
4              "Barn": [],
5              "Referens": "8d2faf86-73d9-11e8-b9fd-0a821ba7448e,null",
6              "Tillfallesdeltagande": {
7                  "Aterbud": false,
8                  "Avklarad": false,
9                  "HarPagandeUppehall": false,
10                 "LarosateID": 29,
11                 "Nuvarande": true,
12                 "Paborjad": true,
13                 "SenareDel": false,

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14     "Sparrad": false,
15     "Studiestruktureferens": "8d2faf86-73d9-11e8-b9fd-0a821ba7448e,null",
16     "SummeradGodkandOmfattning": "16.0",
17     "SummeradHeltTillgodoraknadOmfattning": "24.0",
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19     "Tillganglighet": {
20       "RegistreringTillgangligtFranOchMed": "2014-07-01",
21       "ValTillgangligtFranOchMed": "2014-07-01"
22     },
23     "TillstandKurspaketering": {
24       "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.ejpagaende.pga.inaktivitet",
25       "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.ejpagaende.pga.inaktivi
26       "Utbildning": "studiedeltagande.domain.tillstandsdefinition.pagaende"
27     },
28     "Uid": "8d2faf85-73d9-11e8-b9fd-0a821ba7448e",
29     "Utbildningsinformation": {
30       "AntalPerioder": 1,
31       "AvsesLedaTill": "DOKTORSEXAMEN",
32       "Benamning": {
33         "sv": "Datalogi",
34         "en": "Computer Science"
35       },
36       "Enhetskod": "HP",
37       "LarosateID": 29,
38       "Omfattningsvarde": "240.0",
39       "PeriodIOrdning": "0",
40       "Perioder": [
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42           "Index": 1,
43           "Omfattningsvarde": "240.0",
44           "Slutdatum": "9999-12-31",
45           "Startdatum": "2014-07-21",
46           "Uid": "d5eb2e64-73d8-11e8-afa7-8e408e694e54"
47         }
48       ],
49       "SarskildSekretessprovning": false,
50       "SenareDel": false,
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53       "Studieperiod": {
54         "Startdatum": "2014-07-21"
55       },
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57       "UtbildningensOmfattningsvarde": "240.0",
58       "UtbildningsinstansUID": "8d31c808-73d8-11e8-b4e0-063f9afb40e3",
59       "Utbildningskod": "DATALOGI",
60       "UtbildningssamarbeteID": 134769,
61       "UtbildningstillfalleUID": "d5eab999-73d8-11e8-b4e0-063f9afb40e3",
62       "Utbildningstillfalleskod": "KONV-02DB8",
63       "Utbildningstillfallestyp": {
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65         "sv": "\u00c4mnestillf\u00e4lle, forskarniv\u00e5",
66         "en": "Subject instance, Third-cycle"
67     },
68     "Giltighetsperiod": {},
69     "Grundtyp": "KURSPAKETERING",
70     "ID": 101957,
71     "Kod": "2007FATF",
72     "RegelverkForUtbildningstyp": {
73         "Regelvarden": [
74             {
75                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
76                 "Varde": "true"
77             },
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80                 "Varde": "grupp.for.utsokning.forskarniva"
81             }
82         ]
83     },
84     "Sjalvstandig": false
85 },
86 "Utbildningstyp": {
87     "Benamningar": {
88         "sv": "\u00c4mne, forskarniv\u00e5",
89         "en": "Subject, Third-cycle"
90     },
91     "Giltighetsperiod": {},
92     "Grundtyp": "KURSPAKETERING",
93     "ID": 101956,
94     "Kod": "2007FA",
95     "RegelverkForUtbildningstyp": {
96         "Regelvarden": [
97             {
98                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
99                 "Varde": "true"
100             },
101             {
102                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
103                 "Varde": "grupp.for.utsokning.forskarniva"
104             },
105             {
106                 "Regelnamn": "commons.domain.regel.forvald.omfattning",
107                 "Varde": "240"
108             },
109             {
110                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
111                 "Varde": "true"
112             }
113         ]
114     },
115     "Sjalvstandig": true

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116         },
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118     },
119     "YtterstaPaketeringen": true
120 },
121 "Utbildningsinformation": {
122     "AntalPerioder": 1,
123     "AvsesLedaTill": "DOKTORSEXAMEN",
124     "Benamning": {
125         "sv": "Datalogi",
126         "en": "Computer Science"
127     },
128     "Enhetskod": "HP",
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131     "PeriodIOrdning": "0",
132     "Perioder": [
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135             "Omfattningsvarde": "240.0",
136             "Slutdatum": "9999-12-31",
137             "Startdatum": "2014-07-21",
138             "Uid": "d5eb2e64-73d8-11e8-afa7-8e408e694e54"
139         }
140     ],
141     "SarskildSekretessprovning": false,
142     "SenareDel": false,
143     "SpecificeratOmfattningsvarde": "240.0",
144     "StudieordningID": "1",
145     "Studieperiod": {
146         "Startdatum": "2014-07-21"
147     },
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149     "UtbildningensOmfattningsvarde": "240.0",
150     "UtbildningsinstansUID": "8d31c808-73d8-11e8-b4e0-063f9afb40e3",
151     "Utbildningskod": "DATALOGI",
152     "UtbildningssamarbeteID": 134769,
153     "UtbildningstillfalleUID": "d5eab999-73d8-11e8-b4e0-063f9afb40e3",
154     "Utbildningstillfalleskod": "KONV-02DB8",
155     "Utbildningstillfallestyp": {
156         "Benamningar": {
157             "sv": "\u00c4mnestillf\u00e4lle, forskarniv\u00e5",
158             "en": "Subject instance, Third-cycle"
159         },
160         "Giltighetsperiod": {},
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163         "Kod": "2007FATF",
164         "RegelverkForUtbildningstyp": {
165             "Regelvarden": [
166                 {

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168         "Varde": "true"
169     },
170     {
171         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
172         "Varde": "grupp.for.utsokning.forskarniva"
173     }
174 ]
175 },
176 "Sjalvstandig": false
177 },
178 "Utbildningstyp": {
179     "Benamningar": {
180         "sv": "\u00c4mne, forskarniv\u00e5",
181         "en": "Subject, Third-cycle"
182     },
183     "Giltighetsperiod": {},
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185     "ID": 101956,
186     "Kod": "2007FA",
187     "RegelverkForUtbildningstyp": {
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189             {
190                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
191                 "Varde": "true"
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195                 "Varde": "grupp.for.utsokning.forskarniva"
196             },
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199                 "Varde": "240"
200             },
201             {
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203                 "Varde": "true"
204             }
205         ]
206     },
207     "Sjalvstandig": true
208 },
209 "Utbildningsversion": 1
210 }
211 },
212 {
213     "Barn": [
214         {
215             "Barn": [],
216             "Referens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
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218     "Tillfallesdeltagande": {
219         "Aterbud": false,
220         "Avklarad": true,
221         "Godkannandedatum": "2012-04-26",
222         "HarPagandeUppehall": false,
223         "LarosateID": 29,
224         "Nuvarande": true,
225         "Paborjad": true,
226         "Sparrad": false,
227         "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
228         "SummeradGodkandOmfattning": "300.0",
229         "SummeradHeltTillgodoraknadOmfattning": "0.0",
230         "SummeradTillgodoraknadOmfattning": "34.5",
231         "Tillganglighet": {
232             "RegistreringTillgangligtFranOchMed": "2006-08-28",
233             "ValTillgangligtFranOchMed": "2006-08-28"
234         },
235         "TillstandKurspaketering": {
236             "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
237             "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.ejpagaende.pga.inakomst",
238             "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
239         },
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241         "Utbildningsinformation": {
242             "AntalPerioder": 1,
243             "Benamning": {
244                 "sv": "Matematik och IT-datateknik",
245                 "en": "Mathematics and Information Technology and Computer Science"
246             },
247             "Enhetskod": "HP-K",
248             "FinansieringsformID": 101050,
249             "LarosateID": 29,
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251             "PeriodIOrdning": "0",
252             "Perioder": [
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258                     "Uid": "54d35cc2-73db-11e8-afa7-8e408e694e54"
259                 }
260             ],
261             "SarskildSekretessprovning": false,
262             "SenareDel": false,
263             "Studielokalisering": {
264                 "sv": "Stockholm",
265                 "en": "Stockholm"
266             },
267             "Studielokaliseringrepresentation": {
268                 "Benamningar": {

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269         "sv": "Stockholm",
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271     },
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275     },
276     "ID": 131778,
277     "Kod": "0180"
278 },
279 "StudieordningID": "2",
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281     "Slutdatum": "2011-05-28",
282     "Startdatum": "2006-08-30"
283 },
284 "Studietakt": {
285     "Benamning": {
286         "sv": "Helfart",
287         "en": "Full-time"
288     },
289     "Takt": 100
290 },
291 "Undervisningsform": {
292     "Benamningar": {
293         "sv": "Normal",
294         "en": "Normal teaching"
295     },
296     "Giltighetsperiod": {},
297     "ID": 1
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300 "UtbildningensOmfattningsvarde": "300.0",
301 "UtbildningsinstansUID": "a0bbeaf2-73d8-11e8-afa7-8e408e694e54",
302 "Utbildningskod": "MADA",
303 "UtbildningstillfalleUID": "54d30e44-73db-11e8-b4e0-063f9afb40e3",
304 "Utbildningstillfalleskod": "32118",
305 "Utbildningstillfallestyp": {
306     "Benamningar": {
307         "sv": "Inriktningstillf\u00e4lle",
308         "en": "Specialisation instance"
309     },
310     "Giltighetsperiod": {},
311     "Grundtyp": "KURSPAKETERING",
312     "ID": 101961,
313     "Kod": "1993INRTF",
314     "RegelverkForUtbildningstyp": {
315         "Regelvarden": [
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317                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
318                 "Varde": "true"
319             }

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324     ],
325 },
326 "Sjalvstandig": false
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331         "en": "Specialisation"
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346             },
347             {
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349                 "Varde": "true"
350             }
351         ]
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357 "YtterstaPaketeringen": false
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361     "Benamning": {
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363         "en": "Mathematics and Information Technology and Computer Science"
364     },
365     "Enhetskod": "HP-K",
366     "FinansieringsformID": 101050,
367     "LarosateID": 29,
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369     "PeriodIOrdning": "0",
370     "Perioder": [

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375         "Startdatum": "2006-08-30",
376         "Uid": "54d35cc2-73db-11e8-afa7-8e408e694e54"
377     }
378 ],
379 "SarskildSekretessprovning": false,
380 "SenareDel": false,
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382     "sv": "Stockholm",
383     "en": "Stockholm"
384 },
385 "Studielokaliseringrepresentation": {
386     "Benamningar": {
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388         "en": "Stockholm"
389     },
390     "Giltighetsperiod": {
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392         "Startdatum": "1917-10-19"
393     },
394     "ID": 131778,
395     "Kod": "0180"
396 },
397 "StudieordningID": "2",
398 "Studieperiod": {
399     "Slutdatum": "2011-05-28",
400     "Startdatum": "2006-08-30"
401 },
402 "Studietakt": {
403     "Benamning": {
404         "sv": "Helfart",
405         "en": "Full-time"
406     },
407     "Takt": 100
408 },
409 "Undervisningsform": {
410     "Benamningar": {
411         "sv": "Normal",
412         "en": "Normal teaching"
413     },
414     "Giltighetsperiod": {},
415     "ID": 1
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418 "UtbildningensOmfattningsvarde": "300.0",
419 "UtbildningsinstansUID": "a0bbeaf2-73d8-11e8-afa7-8e408e694e54",
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426             "en": "Specialisation instance"
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430         "ID": 101961,
431         "Kod": "1993INRTF",
432         "RegelverkForUtbildningstyp": {
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436                     "Varde": "true"
437                 },
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440                     "Varde": "grupp.for.utsokning.grundavanceradniva"
441                 }
442             ]
443         },
444         "Sjalvstandig": false
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446     "Utbildningstyp": {
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448             "sv": "Inriktning",
449             "en": "Specialisation"
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453         "ID": 101960,
454         "Kod": "1993INR",
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459                     "Varde": "grupp.for.utsokning.grundavanceradniva"
460                 },
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462                     "Regelnamn": "commons.domain.regel.sjalvstandig",
463                     "Varde": "false"
464                 },
465                 {
466                     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
467                     "Varde": "true"
468                 }
469             ]
470         },
471         "Sjalvstandig": false
472     },

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474     }
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476 ],
477 "Referens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,null",
478 "Tillfallesdeltagande": {
479     "Aterbud": false,
480     "Avklarad": true,
481     "Godkannandedatum": "2012-04-26",
482     "HarPagandeUppehall": false,
483     "LarosateID": 29,
484     "Nuvarande": true,
485     "Paborjad": true,
486     "SenareDel": false,
487     "Sparrad": false,
488     "Studiestruktureferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,null",
489     "SummeradGodkandOmfattning": "300.0",
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491     "SummeradTillgodoraknadOmfattning": "34.5",
492     "Tillganglighet": {
493         "RegistreringTillgangligtFranOchMed": "2006-08-28",
494         "ValTillgangligtFranOchMed": "2006-08-28"
495     },
496     "TillstandKurspaketering": {
497         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
498         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.ejpagaende.pga.inaktivi
499         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
500     },
501     "Uid": "6cd8b546-73e0-11e8-b9fd-0a821ba7448e",
502     "Utbildningsinformation": {
503         "AntalPerioder": 1,
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505             "sv": "Civilingenj\u00f6r och 1\u00e4rare",
506             "en": "Master of Science in Engineering and of Education"
507         },
508         "Enhetskod": "HP",
509         "FinansieringsformID": 101050,
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512         "PeriodIOrdning": "0",
513         "Perioder": [
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520             }
521         ],
522         "SarskildSekretessprovning": false,
523         "SenareDel": false,

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525         "sv": "Stockholm",
526         "en": "Stockholm"
527     },
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537         "ID": 131778,
538         "Kod": "0180"
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543         "Startdatum": "2006-08-30"
544     },
545     "Studietakt": {
546         "Benamning": {
547             "sv": "Helfart",
548             "en": "Full-time"
549         },
550         "Takt": 100
551     },
552     "Undervisningsform": {
553         "Benamningar": {
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555             "en": "Normal teaching"
556         },
557         "Giltighetsperiod": {},
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559     },
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562     "UtbildningsinstansUID": "a0ae2f1d-73d8-11e8-afa7-8e408e694e54",
563     "Utbildningskod": "CL",
564     "UtbildningstillfalleUID": "d67449a2-73da-11e8-b4e0-063f9afb40e3",
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566     "Utbildningstillfallestyp": {
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569             "en": "Programme instance"
570         },
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572         "Grundtyp": "KURSPAKETERING",
573         "ID": 94,
574         "Kod": "2007PRGTF",

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580             },
581             {
582                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
583                 "Varde": "true"
584             },
585             {
586                 "Regelnamn": "commons.domain.regel.atgard_vid_orimligt_omfattningsvarde",
587                 "Varde": "varning"
588             },
589             {
590                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
591                 "Varde": "true"
592             },
593             {
594                 "Regelnamn": "commons.domain.regel.kan.utannonseras",
595                 "Varde": "true"
596             }
597         ]
598     },
599     "Sjalvstandig": false
600 },
601 "Utbildningstyp": {
602     "Benamningar": {
603         "sv": "Program",
604         "en": "Programme"
605     },
606     "Giltighetsperiod": {},
607     "Grundtyp": "KURSPAKETERING",
608     "ID": 78,
609     "Kod": "2007PRG",
610     "RegelverkForUtbildningstyp": {
611         "Regelvarden": [
612             {
613                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
614                 "Varde": "true"
615             },
616             {
617                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
618                 "Varde": "grupp.for.utsokning.grundavanceradniva"
619             },
620             {
621                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
622                 "Varde": "true"
623             },
624             {
625                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",

```

```

626         "Varde": "true"
627     }
628 ]
629 },
630     "Sjalvstandig": true
631 },
632     "Utbildningsversion": 1
633 },
634     "YtterstaPaketeringen": true
635 },
636 "Utbildningsinformation": {
637     "AntalPerioder": 1,
638     "Benamning": {
639         "sv": "Civilingenj\u00f6r och l\u00e4rare",
640         "en": "Master of Science in Engineering and of Education"
641     },
642     "Enhetskod": "HP",
643     "FinansieringsformID": 101050,
644     "LarosateID": 29,
645     "Omfattningsvarde": "300.0",
646     "PeriodIOrdning": "0",
647     "Perioder": [
648         {
649             "Index": 1,
650             "Omfattningsvarde": "300.0",
651             "Slutdatum": "2011-05-28",
652             "Startdatum": "2006-08-30",
653             "Uid": "d674e59d-73da-11e8-afa7-8e408e694e54"
654         }
655     ],
656     "SarskildSekretessprovning": false,
657     "SenareDel": false,
658     "Studielokalisering": {
659         "sv": "Stockholm",
660         "en": "Stockholm"
661     },
662     "Studielokaliseringrepresentation": {
663         "Benamningar": {
664             "sv": "Stockholm",
665             "en": "Stockholm"
666         },
667         "Giltighetsperiod": {
668             "Slutdatum": "2019-01-14",
669             "Startdatum": "1917-10-19"
670         },
671         "ID": 131778,
672         "Kod": "0180"
673     },
674     "StudieordningID": "1",
675     "Studieperiod": {
676         "Slutdatum": "2011-05-28",

```

```

677     "Startdatum": "2006-08-30"
678 },
679 "Studietakt": {
680     "Benamning": {
681         "sv": "Helfart",
682         "en": "Full-time"
683     },
684     "Takt": 100
685 },
686 "Undervisningsform": {
687     "Benamningar": {
688         "sv": "Normal",
689         "en": "Normal teaching"
690     },
691     "Giltighetsperiod": {},
692     "ID": 1
693 },
694 "UtbildningUID": "a0ae2f2c-73d8-11e8-afa7-8e408e694e54",
695 "UtbildningensOmfattningsvarde": "300.0",
696 "UtbildningsinstansUID": "a0ae2f1d-73d8-11e8-afa7-8e408e694e54",
697 "Utbildningskod": "CL",
698 "UtbildningstillfalleUID": "d67449a2-73da-11e8-b4e0-063f9afb40e3",
699 "Utbildningstillfallekod": "KONV-0008B",
700 "Utbildningstillfallestyp": {
701     "Benamningar": {
702         "sv": "Programtillf\u00e4lle",
703         "en": "Programme instance"
704     },
705     "Giltighetsperiod": {},
706     "Grundtyp": "KURSPAKETERING",
707     "ID": 94,
708     "Kod": "2007PRGTF",
709     "RegelverkForUtbildningstyp": {
710         "Regelvarde": [
711             {
712                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
713                 "Varde": "grupp.for.utsokning.grundavanceradniva"
714             },
715             {
716                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
717                 "Varde": "true"
718             },
719             {
720                 "Regelnamn": "commons.domain.regel.atgard_vid_orimligt_omfattningsvarde",
721                 "Varde": "varning"
722             },
723             {
724                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
725                 "Varde": "true"
726             },
727             {

```

```

728         "Regelnamn": "commons.domain.regel.kan.utannonseras",
729         "Varde": "true"
730     }
731 ]
732 },
733 "Sjalvstandig": false
734 },
735 "Utbildningstyp": {
736     "Benamningar": {
737         "sv": "Program",
738         "en": "Programme"
739     },
740     "Giltighetsperiod": {},
741     "Grundtyp": "KURSPAKETERING",
742     "ID": 78,
743     "Kod": "2007PRG",
744     "RegelverkForUtbildningstyp": {
745         "Regelvarden": [
746             {
747                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
748                 "Varde": "true"
749             },
750             {
751                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
752                 "Varde": "grupp.for.utsokning.grundavanceradniva"
753             },
754             {
755                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
756                 "Varde": "true"
757             },
758             {
759                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
760                 "Varde": "true"
761             }
762         ]
763     },
764     "Sjalvstandig": true
765 },
766 "Utbildningsversion": 1
767 }
768 }
769 ]
770 }

```


Chapter 18

Course-related API calls

18.1 search_course_rounds_JSON

We want to search for course rounds by one or more keys.

```
362a <LadokSession data methods 126b>+=  
def search_course_rounds_JSON(self, /, **kwargs):  
    """Query LADOK about course rounds, possible keys:  
    code, round_code, name  
    """  
    url = "/resultat/internal/kurstillfalle/filtrera?"  
  
    if "code" in kwargs:  
        url += f"kurskod={kwargs['code']}&"  
    if "name" in kwargs:  
        url += f"benamning={kwargs['name']}&"  
    if "round_code" in kwargs:  
        url += f"tillfalleskod={kwargs['round_code']}&"  
  
    url += "page=1&limit=400&sprakkod=sv"  
  
    data = self.get_query(url)  
  
    try:  
        return data["Resultat"]  
    except KeyError as err:  
        err.add_note(f"Response data: {data}")  
        raise LadokAPIError(f"Unexpected response format when searching for course rounds: "  
                             f"missing 'Resultat' key") from err
```

We add the following test.

```
362b <test functions 126a>+=  
def test_search_course_rounds_JSON():  
    results = ladok.search_course_rounds_JSON(code="DD1317")  
    assert results
```

This code is used in chunk 121.

The output looks like this.

```

1  [
2    {
3      "FinansieringsformID": 101050,
4      "Slutdatum": "2026-01-12",
5      "Startdatum": "2025-08-25",
6      "StudielokaliseringID": 135195,
7      "StudietaktID": 6,
8      "TillfallesKod": "50441",
9      "Uid": "c2e79045-b95c-11ef-9553-beecfac44351",
10     "UndervisningsformID": 1,
11     "Utbildningsinstans": {
12       "Avvecklad": false,
13       "Benamning": [
14         {
15           "Sprakkod": "sv",
16           "Text": "Programmeringsteknik"
17         },
18         {
19           "Sprakkod": "en",
20           "Text": "Programming Techniques"
21         }
22       ],
23       "Enhet": "HP",
24       "GallerUtbildningUtanAngivenOmfattning": false,
25       "Omfattning": 7.5,
26       "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
27       "ResultatPaKursVidAttestingAvModul": false,
28       "Uid": "70d5fdb1-2db7-11ec-bb06-8c8c04c8482a",
29       "UtbildningUID": "70d5fdb9-2db7-11ec-bb06-8c8c04c8482a",
30       "Utbildningskod": "DD1317",
31       "Versionsnummer": 1
32     }
33   },
34   {
35     "FinansieringsformID": 101050,
36     "Slutdatum": "2025-01-13",
37     "Startdatum": "2024-08-26",
38     "StudielokaliseringID": 135195,
39     "StudietaktID": 6,
40     "TillfallesKod": "51345",
41     "Uid": "500c3e9f-8f71-11ee-b4f1-bdc8f0e04f23",
42     "UndervisningsformID": 1,
43     "Utbildningsinstans": {
44       "Avvecklad": false,
45       "Benamning": [
46         {
47           "Sprakkod": "sv",
48           "Text": "Programmeringsteknik"
49         },

```

```

50     {
51         "Sprakkod": "en",
52         "Text": "Programming Techniques"
53     }
54 ],
55 "Enhet": "HP",
56 "GallerUtbildningUtanAngivenOmfattning": false,
57 "Omfattning": 7.5,
58 "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
59 "ResultatPaKursVidAttestingAvModul": false,
60 "Uid": "70d5fdb1-2db7-11ec-bb06-8c8c04c8482a",
61 "UtbildningUID": "70d5fdb9-2db7-11ec-bb06-8c8c04c8482a",
62 "Utbildningskod": "DD1317",
63 "Versionsnummer": 1
64 }
65 },
66 {
67     "FinansieringsformID": 101050,
68     "Slutdatum": "2024-01-15",
69     "Startdatum": "2023-08-28",
70     "StudielokaliseringID": 135195,
71     "StudietaktID": 6,
72     "TillfallesKod": "50566",
73     "Uid": "04217d06-7baf-11ed-83fc-99df00a14a2f",
74     "UndervisningsformID": 1,
75     "Utbildningsinstans": {
76         "Avvecklad": false,
77         "Benamning": [
78             {
79                 "Sprakkod": "sv",
80                 "Text": "Programmeringsteknik"
81             },
82             {
83                 "Sprakkod": "en",
84                 "Text": "Programming Techniques"
85             }
86         ],
87         "Enhet": "HP",
88         "GallerUtbildningUtanAngivenOmfattning": false,
89         "Omfattning": 7.5,
90         "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
91         "ResultatPaKursVidAttestingAvModul": false,
92         "Uid": "70d5fdb1-2db7-11ec-bb06-8c8c04c8482a",
93         "UtbildningUID": "70d5fdb9-2db7-11ec-bb06-8c8c04c8482a",
94         "Utbildningskod": "DD1317",
95         "Versionsnummer": 1
96     }
97 },
98 {
99     "FinansieringsformID": 101050,
100    "Slutdatum": "2023-01-16",

```

```

101     "Startdatum": "2022-08-29",
102     "StudielokaliseringID": 135195,
103     "StudietaktID": 6,
104     "TillfalllesKod": "51035",
105     "UId": "e45347cc-5cbd-11ec-b92f-2b1dd40a480d",
106     "UndervisningsformID": 1,
107     "Utbildningsinstans": {
108         "Avvecklad": false,
109         "Benamning": [
110             {
111                 "Sprakkod": "sv",
112                 "Text": "Programmeringsteknik"
113             },
114             {
115                 "Sprakkod": "en",
116                 "Text": "Programming Techniques"
117             }
118         ],
119         "Enhet": "HP",
120         "GallerUtbildningUtanAngivenOmfattning": false,
121         "Omfattning": 7.5,
122         "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
123         "ResultatPaKursVidAttesteringAvModul": false,
124         "UId": "70d5fdb1-2db7-11ec-bb06-8c8c04c8482a",
125         "UtbildningUID": "70d5fdb9-2db7-11ec-bb06-8c8c04c8482a",
126         "Utbildningskod": "DD1317",
127         "Versionsnummer": 1
128     }
129 }
130 ]

```

18.2 course_rounds_JSON

This method fetches all course rounds that uses the given course instance.

```

365 <LadokSession data methods 126b>+=
def course_rounds_JSON(self, course_instance_id):
    """Requires course instance ID"""
    data = self.get_query(
        f"/resultat/internal/kurstillfalle/kursinstans/{course_instance_id}"
    )

    try:
        return data["Utbildningstillfalle"]
    except KeyError as err:
        err.add_note(f"Response data: {data}")
        raise LadokAPIError(f"Unexpected response format when fetching course rounds for "
                             f"instance {course_instance_id}: missing 'Utbildningstillfalle' key") from err

```

We test this method as follows.

```
366 <test functions 126a>+≡
    def test_course_rounds_JSON():
        results = ladok.course_rounds_JSON(dasak_instance_id)
        assert json.dumps(results[:1]+results[-1:], indent=2, ensure_ascii=False)
```

This code is used in chunk 121.

The output looks like this.

```
1  [
2    {
3      "FinansieringsformID": 131738,
4      "Slutdatum": "2019-01-14",
5      "Startdatum": "2018-10-29",
6      "StudielokaliseringID": 131778,
7      "StudietaktID": 5,
8      "TillfallesKod": "10069",
9      "Uid": "79b4b213-73da-11e8-b4e0-063f9afb40e3",
10     "UndervisningsformID": 1,
11     "Utbildningsinstans": {
12       "Avvecklad": false,
13       "Benamning": [
14         {
15           "Sprakkod": "sv",
16           "Text": "Datasäkerhet"
17         },
18         {
19           "Sprakkod": "en",
20           "Text": "Computer Security"
21         }
22       ],
23       "Enhet": "HP",
24       "GallerUtbildningUtanAngivenOmfattning": false,
25       "Omfattning": 6.0,
26       "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
27       "ResultatPaKursVidAttesteringAvModul": false,
28       "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
29       "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
30       "Utbildningskod": "DD2395",
31       "Versionsnummer": 1
32     }
33   },
34   {
35     "FinansieringsformID": 102075,
36     "Slutdatum": "2008-01-11",
37     "Startdatum": "2007-08-31",
38     "StudielokaliseringID": 131778,
39     "StudietaktID": 1,
40     "TillfallesKod": "X0054",
41     "Uid": "79a48556-73da-11e8-b4e0-063f9afb40e3",
42     "UndervisningsformID": 1,
```

```

43     "Utbildningsinstans": {
44         "Avvecklad": false,
45         "Benamning": [
46             {
47                 "Sprakkod": "sv",
48                 "Text": "Datasäkerhet"
49             },
50             {
51                 "Sprakkod": "en",
52                 "Text": "Computer Security"
53             }
54         ],
55         "Enhet": "HP",
56         "GallerUtbildningUtanAngivenOmfattning": false,
57         "Omfattning": 6.0,
58         "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
59         "ResultatPaKursVidAttesteringAvModul": false,
60         "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
61         "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
62         "Utbildningskod": "DD2395",
63         "Versionsnummer": 1
64     }
65 }
66 ]

```

18.3 course_instance_JSON

This method fetches the data for a given course instance. It requires the course instance ID. (This is a slightly rewritten version of Maguire's original method.)

```

367a <LadokSession data methods 126b>+=
def course_instance_JSON(self, instance_id):
    """
    Returns course instance data for a course with instance ID instance_id
    """
    try:
        return self.get_query(
            f"/resultat/internal/utbildningsinstans/kursinstans/{instance_id}"
        )
    except LadokAPIError as err:
        raise LadokAPIError(f"Failed to get course instance data for "
                             f"{instance_id}: {err}") from err
    except LadokServerError as err:
        raise LadokServerError(f"LADOK server error when getting course instance data for "
                                f"{instance_id}: {err}") from err

```

We add the following test.

```

367b <test functions 126a>+=
def test_course_instance_JSON():
    results = ladok.course_instance_JSON(dasak_instance_id)
    assert json.dumps(results, indent=2, ensure_ascii=False)

```

This code is used in chunk 121.

The output looks like this.

```

1  {
2    "Avvecklad": false,
3    "Benamning": [
4      {
5        "Sprakkod": "sv",
6        "Text": "Datasäkerhet"
7      },
8      {
9        "Sprakkod": "en",
10       "Text": "Computer Security"
11     }
12   ],
13   "BetygsskalaID": 131657,
14   "Enhet": "HP",
15   "GallerUtbildningUtanAngivenOmfattning": false,
16   "KravPaHanvisningTillBeslutshandling": false,
17   "KravPaProjekttitel": false,
18   "Omfattning": 6.0,
19   "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
20   "ResultatPaKursVidAttesteringAvModul": false,
21   "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
22   "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
23   "Utbildningskod": "DD2395",
24   "Versionsnummer": 1
25 }
```

18.4 course_instances_JSON

We can get a list of course instances for a given course code.

```

368 <LadokSession data methods 126b>+=
    # added by GQMJr
    def course_instances_JSON(self, course_code, lang = 'sv'):
        """
        Returns a list of dictionaries with course instances for a given course code.
        The course code is a string such as "DD1310". The language code is 'en' or
        'sv'.

        Note that there seems to be a limit of 403 for the number of pages.
        """
        r = self.session.get(
            url=self.base_gui_proxy_url + '/resultat/internal/kurstillfalle/filtrera?kurskod=' +
              course_code + '&page=1&limit=100&skipCount=false&sprakkod=' + lang, # not sure about this one /
            headers=self.headers)
        if r.status_code == requests.codes.ok:
            return r.json()
        raise LadokAPIError(f"failed to get course instances for {course_code}: {r.text}")
```

Let's add a test. This should return a list of dictionaries.

```
369 <test functions 126a>+=
def test_course_instances_JSON():
    r = ladok.course_instances_JSON('DD2395')
    assert type(r) == dict
```

This code is used in chunk 121.

The output looks like this:

```
1 {
2   "Resultat": [
3     {
4       "FinansieringsformID": 131738,
5       "Slutdatum": "2025-10-24",
6       "Startdatum": "2025-08-25",
7       "StudielokaliseringID": 135195,
8       "StudietaktID": 4,
9       "TillfallesKod": "10148",
10      "Uid": "530db250-edfd-11ef-a5d7-577d306f467c",
11      "UndervisningsformID": 1,
12      "Utbildningsinstans": {
13        "Avvecklad": false,
14        "Benamning": [
15          {
16            "Sprakkod": "sv",
17            "Text": "Datanu00e4kerhet"
18          },
19          {
20            "Sprakkod": "en",
21            "Text": "Computer Security"
22          }
23        ],
24        "Enhhet": "HP",
25        "GallerUtbildningUtanAngivenOmfattning": false,
26        "Omfattning": 6.0,
27        "OrganisationUID": "2474f616-dc41-11e8-8cc1-eaeeb71b497f",
28        "ResultatPaKursVidAttesteringAvModul": false,
29        "Uid": "55ec9709-d6c5-11e8-8fd5-cf9d2c5c41ba",
30        "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
31        "Utbildningskod": "DD2395",
32        "Versionsnummer": 2
33      }
34    ],
35    {
36      "FinansieringsformID": 101050,
37      "Slutdatum": "2025-10-24",
38      "Startdatum": "2025-08-25",
39      "StudielokaliseringID": 135195,
40      "StudietaktID": 4,
41      "TillfallesKod": "50301",
42      "Uid": "88ef281a-b958-11ef-9553-beecfac44351",
```



```

43     "UndervisningsformID": 1,
44     "Utbildningsinstans": {
45         "Avvecklad": false,
46         "Benamning": [
47             {
48                 "Sprakkod": "sv",
49                 "Text": "Datas\u00e4kerhet"
50             },
51             {
52                 "Sprakkod": "en",
53                 "Text": "Computer Security"
54             }
55         ],
56         "Enhet": "HP",
57         "GallerUtbildningUtanAngivenOmfattning": false,
58         "Omfattning": 6.0,
59         "OrganisationUID": "2474f616-dc41-11e8-8cc1-eaeeb71b497f",
60         "ResultatPaKursVidAttesteringAvModul": false,
61         "Uid": "55ec9709-d6c5-11e8-8fd5-cf9d2c5c41ba",
62         "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
63         "Utbildningskod": "DD2395",
64         "Versionsnummer": 2
65     }
66 },
67 {
68     "FinansieringsformID": 101050,
69     "Slutdatum": "2024-10-27",
70     "Startdatum": "2024-08-26",
71     "StudielokaliseringID": 135195,
72     "StudietaktID": 4,
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2144         "Utbildningsinstans": {
2145             "Avvecklad": false,
2146             "Benamning": [
2147                 {
2148                     "Sprakkod": "sv",
2149                     "Text": "Datan\u00e4rhet"
2150                 },
2151                 {
2152                     "Sprakkod": "en",
2153                     "Text": "Computer Security"
2154                 }
2155             ],
2156             "Enhet": "HP",
2157             "GallerUtbildningUtanAngivenOmfattning": false,
2158             "Omfattning": 6.0,
2159             "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
2160             "ResultatPaKursVidAttesteringAvModul": false,
2161             "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
2162             "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
2163             "Utbildningskod": "DD2395",
2164             "Versionsnummer": 1
2165         }
2166     }
2167 ],
2168 "TotaltAntalPoster": 71
2169 }

```

18.5 instance_info

This function gets a course instance by the combination of course code (e.g., DD1310) and the five digit round code (e.g., 50429).

```

411 <LadokSession data methods 126b>+=
    # added by GQMJr
    def instance_info(self, course_code, instance_code, lang = 'sv'):
        """
        Returns a dictionary of course instance information.

        course_code        - course code, such as "DD1310"

        instance_code      - instance of the course ('TillfallesKod')

```

```

lang          - language code 'en' or 'sv', defaults to 'sv'
"""
r = self.session.get(
    url=self.base_gui_proxy_url +
        '/resultat/internal/kurstillfalle/filtrera?kurskod=' + course_code +
        '&page=1&limit=25&skipCount=false&sprakkod=' + lang,
    headers=self.headers)
if r.status_code == requests.codes.ok:
    rj=r.json()
    for course in rj['Resultat']:
        if course['TillfallesKod'] == instance_code:
            return course
    # If we get here, the course instance was not found
    raise LadokNotFoundError(f"course instance {instance_code} not found for course {course_code}")
    raise LadokAPIError(f"failed to search for course instance {course_code}/{instance_code}: {r.text}")

```

Let's add a test. This should return a dictionary.

```

412 <test functions 126a>+=
def test_instance_info():
    r = ladok.instance_info('DD1310', '50429')
    assert type(r) == dict

```

This code is used in chunk 121.

The output looks like this:

```

1  {
2    "FinansieringsformID": 101050,
3    "Slutdatum": "2025-01-13",
4    "Startdatum": "2024-08-26",
5    "StudielokaliseringID": 135195,
6    "StudietaktID": 7,
7    "TillfallesKod": "50429",
8    "UId": "da99b691-8f70-11ee-b4f1-bdc8f0e04f23",
9    "UndervisningsformID": 1,
10   "Utbildningsinstans": {
11     "Avvecklad": false,
12     "Benamning": [
13       {
14         "Sprakkod": "sv",
15         "Text": "Programmeringsteknik"
16       },
17       {
18         "Sprakkod": "en",
19         "Text": "Programming Techniques"
20       }
21     ],
22     "Enhet": "HP",
23     "GallerUtbildningUtanAngivenOmfattning": false,
24     "Omfattning": 6.0,
25     "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
26     "ResultatPaKursVidAttesteringAvModul": false,

```

```

27     "Uid": "4cf550c7-d6b5-11e8-8fd5-cf9d2c5c41ba",
28     "UtbildningUID": "386a70fa-73d8-11e8-afa7-8e408e694e54",
29     "Utbildningskod": "DD1310",
30     "Versionsnummer": 2
31 }
32 }

```

18.6 instance_info_uid

This function returns the same as above (`instance_info`) but uses the course's LADOK ID. This ID can be found as the `sis_course_id` in Canvas.

413a *<LadokSession data methods 126b>+≡*

```

# added by GQMJr
def instance_info_uid(self, instance_uid):
    """
    Returns a dictionary of course instance information.

    instance_uid: course's Uid (from course_integration_id or
                    sis_course_id in Canvas)
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/resultat/internal/kurstillfalle/'+instance_uid,
        headers=self.headers)
    if r.status_code == requests.codes.ok:
        return r.json()
    raise LadokAPIError(f"failed to get course instance info for {instance_uid}: {r.text}")

```

Let's add a test. This should return a dictionary.

413b *<test functions 126a>+≡*

```

def test_instance_info_uid():
    r = ladok.instance_info_uid(dasak_round_id)
    assert type(r) == dict

```

This code is used in chunk 121.

The output looks like this:

```

1  {
2      "FinansieringsformID": 101050,
3      "Slutdatum": "2010-03-21",
4      "Startdatum": "2010-01-18",
5      "StudielokaliseringID": 131778,
6      "StudietaktID": 1,
7      "TillfallesKod": "81099",
8      "Uid": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
9      "UndervisningsformID": 1,
10     "Utbildningsinstans": {
11         "Avvecklad": false,
12         "Benamning": [
13             {
14                 "Sprakkod": "sv",

```

```

15         "Text": "Datas\u00e4kerhet"
16     },
17     {
18         "Sprakkod": "en",
19         "Text": "Computer Security"
20     }
21 ],
22 "Enhet": "HP",
23 "GallerUtbildningUtanAngivenOmfattning": false,
24 "Omfattning": 6.0,
25 "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
26 "ResultatPaKursVidAttesteringAvModul": false,
27 "UId": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
28 "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
29 "Utbildningskod": "DD2395",
30 "Versionsnummer": 1
31 }
32 }

```

18.7 Course components

There are two ways to get the components for a course.

18.7.1 course_round_components_JSON

This method fetches the course components of a course round from LADOK. It requires the course round ID. This one includes data such as the number of registered students as well, unlike the method in the next section.

```

414 <LadokSession data methods 126b>+=
def course_round_components_JSON(self, round_id):
    """
    Fetch course components for a given course round.

    Args:
        round_id (str): The unique identifier of the course round.

    Returns:
        list: A list of course component JSON objects.

    Raises:
        LadokServerError: If the request fails or server returns an error message.
    """
    data = self.put_query(
        "/resultat/internal/kurstillfalle/moment",
        {"Identitet": [round_id]}
    )

    try:
        return data["MomentPerKurstillfallen"][0]["Moment"]
    except (KeyError, IndexError) as err:

```

```
err.add_note(f"Response data: {data}")
raise LadokAPIError(f"Unexpected response format when fetching components for "
                    f"round {round_id}: {type(err).__name__}") from err
```

We add the following test.

```
415 <test functions 126a>+≡
def test_course_round_components_JSON():
    components = ladok.course_round_components_JSON(dasak_round_id)
    assert json.dumps(components, indent=2, ensure_ascii=False)
```

This code is used in chunk 121.

The output looks like this.

```
1 {
2   "AntalRegistrerade": 0,
3   "Benamning": {
4     "sv": "Datasäkerhet",
5     "en": "Computer Security"
6   },
7   "BetygsskalaID": 131657,
8   "Enhet": "HP",
9   "GallerUtbildningUtanAngivenOmfattning": false,
10  "IngaendeMoment": [
11    {
12      "Benamning": {
13        "sv": "Laborationer",
14        "en": "Laboratory Work"
15      },
16      "BetygsskalaID": 131656,
17      "Enhet": "HP",
18      "GallerUtbildningUtanAngivenOmfattning": false,
19      "KravPaProjekttitel": false,
20      "Omfattning": 3.0,
21      "ResultatrapporteringMojlig": true,
22      "UtbildningUID": "39ca27fe-73d8-11e8-afa7-8e408e694e54",
23      "UtbildningsinstansUID": "39ca2861-73d8-11e8-b4e0-063f9afb40e3",
24      "Utbildningskod": "LAB1"
25    },
26    {
27      "Benamning": {
28        "sv": "Tentamen",
29        "en": "Examination"
30      },
31      "BetygsskalaID": 131657,
32      "Enhet": "HP",
33      "GallerUtbildningUtanAngivenOmfattning": false,
34      "KravPaProjekttitel": false,
35      "Omfattning": 3.0,
36      "ResultatrapporteringMojlig": true,
37      "UtbildningUID": "39c593d1-73d8-11e8-afa7-8e408e694e54",
38      "UtbildningsinstansUID": "39c5947b-73d8-11e8-b4e0-063f9afb40e3",
39      "Utbildningskod": "TEN1"
```

```

40     }
41 ],
42 "KravPaProjekttitel": false,
43 "Kurstillfalleskod": "81099",
44 "Omfattning": 6.0,
45 "ResultatrapporteringMojlig": true,
46 "Slutdatum": "2010-03-21 ",
47 "Startdatum": "2010-01-18 ",
48 "Studietaktsbenamning": {
49     "sv": "Helfart",
50     "en": "Full-time"
51 },
52 "Takt": 100,
53 "Undervisningsformbenamning": {
54     "sv": "Normal",
55     "en": "Normal teaching"
56 },
57 "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
58 "UtbildningsinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
59 "Utbildningskod": "DD2395",
60 "Versionsnummer": 1
61 }

```

18.7.2 course_instance_components_JSON

This method fetches the course components for a course instance, i.e., a version of the syllabus.

```

416 <LadokSession data methods 126b>+=
def course_instance_components_JSON(self, course_instance_id):
    """
    Fetch course components for a given course instance.

    Args:
        course_instance_id (str): The unique identifier of the course instance.

    Returns:
        dict: JSON object containing course instance components.

    Raises:
        LadokServerError: If the request fails or server returns an error message.
    """
    data = self.put_query(
        "/resultat/internal/utbildningsinstans/moduler",
        {"Identitet": [course_instance_id]}
    )

    try:
        return data["Utbildningsinstans"][0]
    except (KeyError, IndexError) as err:
        err.add_note(f"Response data: {data}")

```

```
raise LadokAPIError(f"Unexpected response format when fetching components for "
                    f"instance {course_instance_id}: {type(err).__name__}") from err
```

We add the following test code.

```
417 <test functions 126a>+≡
def test_course_instance_components_JSON():
    components = ladok.course_instance_components_JSON(dasak_instance_id)
    assert json.dumps(components, indent=2, ensure_ascii=False)
```

This code is used in chunk 121.

The output looks like this.

```
1 {
2   "Avvecklad": false,
3   "Benamning": [
4     {
5       "Sprakkod": "sv",
6       "Text": "Datasäkerhet"
7     },
8     {
9       "Sprakkod": "en",
10      "Text": "Computer Security"
11    }
12  ],
13  "BetygsskalaID": 131657,
14  "Enhet": "HP",
15  "GallerUtbildningUtanAngivenOmfattning": false,
16  "KravPaHanvisningTillBeslutshandling": false,
17  "KravPaProjekttitel": false,
18  "Moduler": [
19    {
20      "Avvecklad": false,
21      "Benamning": [
22        {
23          "Sprakkod": "sv",
24          "Text": "Laborationer"
25        },
26        {
27          "Sprakkod": "en",
28          "Text": "Laboratory Work"
29        }
30      ],
31      "BetygsskalaID": 131656,
32      "Enhet": "HP",
33      "GallerUtbildningUtanAngivenOmfattning": false,
34      "KravPaHanvisningTillBeslutshandling": false,
35      "KravPaProjekttitel": false,
36      "Moduler": [],
37      "Omfattning": 3.0,
38      "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
39      "ResultatPaKursVidAttesteringAvModul": false,
40      "Uid": "39ca2861-73d8-11e8-b4e0-063f9afb40e3",
```



```

41     "UtbildningUID": "39ca27fe-73d8-11e8-afa7-8e408e694e54",
42     "Utbildningskod": "LAB1",
43     "Versionsnummer": 1
44 },
45 {
46     "Avvecklad": false,
47     "Benamning": [
48         {
49             "Sprakkod": "sv",
50             "Text": "Tentamen"
51         },
52         {
53             "Sprakkod": "en",
54             "Text": "Examination"
55         }
56     ],
57     "BetygsskalaID": 131657,
58     "Enhet": "HP",
59     "GallerUtbildningUtanAngivenOmfattning": false,
60     "KravPaHanvisningTillBeslutshandling": false,
61     "KravPaProjektTitel": false,
62     "Moduler": [],
63     "Omfattning": 3.0,
64     "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
65     "ResultatPaKursVidAttesteringAvModul": false,
66     "Uid": "39c5947b-73d8-11e8-b4e0-063f9afb40e3",
67     "UtbildningUID": "39c593d1-73d8-11e8-afa7-8e408e694e54",
68     "Utbildningskod": "TEN1",
69     "Versionsnummer": 1
70 }
71 ],
72 "Omfattning": 6.0,
73 "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
74 "ResultatPaKursVidAttesteringAvModul": false,
75 "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
76 "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
77 "Utbildningskod": "DD2395",
78 "Versionsnummer": 1
79 }

```

Chapter 19

Results-related API calls

In this chapter we look at how to fetch results from LADOK and report new results to LADOK.

19.1 Reported results

There are two ways to get results for a course. One method gives more data than the other.

19.1.1 search_reported_results_JSON

This method searches for student results for a given component on a given course round.

```
419 <LadokSession data methods 126b>+≡
def search_reported_results_JSON(self, course_round_id, component_instance_id):
    """Requires:
    course_round_id: round_id for a course,
    component_instance_id: instance_id for a component of the course.
    """
    put_data = {
        "Filtrering": ["OBEHANDLADE", "UTKAST", "ATTESTERADE"],
        "KurstillfallenUID": [course_round_id],
        "OrderBy": [
            "EFTERNAMN_ASC",
            "FORNAMN_ASC",
            "PERSONNUMMER_ASC"
        ],
        "Limit": 400,
        "Page": 1,
        "StudenterUID": []
    }

    data = self.put_query(
        "/resultat/internal/studieresultat/rapportera"
        f"/utbildningsinstans/{component_instance_id}/sok",
        put_data)
```

```

try:
    return data["Resultat"]
except KeyError as err:
    err.add_note(f"Response data: {data}")
    raise LadokAPIError(f"Unexpected response format when searching for results for "
                        f"round {course_round_id}, component {component_instance_id}: "
                        f"missing 'Resultat' key") from err

```

We write the following test.

```

420 <test functions 126a>+≡
def test_search_reported_results_JSON():
    results = ladok.search_reported_results_JSON(dasak_round_id,
        LAB1_instance_id)
    assert json.dumps(results, indent=2, ensure_ascii=False)

```

This code is used in chunk 121.

The output looks like this.

```

1  [
2  {
3      "AktuellKursinstans": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
4      "AktuelltKurstillfalle": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
5      "KursUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
6      "Rapporteringskontext": {
7          "BetygsskalaID": 131656,
8          "GallerUtbildningUtanAngivenOmfattning": false,
9          "KravPaHanvisningTillBeslutshandling": false,
10         "KravPaProjekttitel": false,
11         "UtbildningUID": "39ca27fe-73d8-11e8-afa7-8e408e694e54",
12         "UtbildningsinstansUID": "39ca2861-73d8-11e8-b4e0-063f9afb40e3"
13     },
14     "ResultatPaUtbildningar": [
15         {
16             "HarFleraAttesteradeResultat": false,
17             "HarTillgodoraknande": false,
18             "HeltTillgodoraknad": false,
19             "KanExkluderas": false,
20             "SenastAttesteradeResultat": {
21                 "Anteckning": "Detaljer om modulresultat från gamla Ladok: Inläggningsdatum (idatum):[2010-04-07",
22                 "Beslutsdatum": "2010-04-07",
23                 "Beslutsfattare": "Uppgift om examinator saknas/Not applicable",
24                 "Betygsgrad": 131658,
25                 "Betygsgradsobjekt": {
26                     "GiltigSomSlutbetyg": true,
27                     "ID": 131658,
28                     "Kod": "P"
29                 },
30                 "BetygsskalaID": 131656,
31                 "Examinationsdatum": "2010-04-07",
32                 "ForbereddForBorttag": false,
33                 "KursinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",

```

```

34     "KurstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
35     "Noteringar": [],
36     "Noteringsdefinitioner": [],
37     "ProcessStatus": 3,
38     "ResultatUID": "34b536b2-7410-11e8-b046-cb26945c40f5",
39     "SenasteResultatandring": "2018-06-20T00:29:18.739",
40     "StudentUID": "de709f81-a867-11e7-8dbf-78e86dc2470c",
41     "StudieresultatUID": "a4a4be29-73f2-11e8-b046-cb26945c40f5",
42     "Uid": "34b536b2-7410-11e8-b046-cb26945c40f5",
43     "UtbildningsinstansUID": "39ca2861-73d8-11e8-b4e0-063f9afb40e3"
44 },
45 "TotalTillgodoraknadOmfattning": 0.0,
46 "UtbildningUID": "39ca27fe-73d8-11e8-afa7-8e408e694e54"
47 },
48 {
49     "HarFleraAttesteradeResultat": false,
50     "HarTillgodoraknande": false,
51     "HeltTillgodoraknad": false,
52     "KanExkluderas": false,
53     "SenastAttesteradeResultat": {
54         "Anteckning": "Detaljer om modulresultat från gamla Ladok: Inläggningsdatum (idatum):[2010-04
55         "Beslutsdatum": "2010-03-18",
56         "Beslutsfattare": "Uppgift om examiner saknas/Not applicable",
57         "Betygsgrad": 131661,
58         "Betygsgradsobjekt": {
59             "GiltigSomSlutbetyg": true,
60             "ID": 131661,
61             "Kod": "A"
62         },
63         "BetygsskalaID": 131657,
64         "Examinationsdatum": "2010-03-18",
65         "ForbereddForBorttag": false,
66         "KursinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
67         "KurstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
68         "Noteringar": [],
69         "Noteringsdefinitioner": [],
70         "ProcessStatus": 3,
71         "ResultatUID": "34b780dc-7410-11e8-b046-cb26945c40f5",
72         "SenasteResultatandring": "2018-06-20T00:29:18.754",
73         "StudentUID": "de709f81-a867-11e7-8dbf-78e86dc2470c",
74         "StudieresultatUID": "a4a4be29-73f2-11e8-b046-cb26945c40f5",
75         "Uid": "34b780dc-7410-11e8-b046-cb26945c40f5",
76         "UtbildningsinstansUID": "39c5947b-73d8-11e8-b4e0-063f9afb40e3"
77     },
78     "TotalTillgodoraknadOmfattning": 0.0,
79     "UtbildningUID": "39c593d1-73d8-11e8-afa7-8e408e694e54"
80 },
81 {
82     "HarFleraAttesteradeResultat": false,
83     "HarTillgodoraknande": false,
84     "HeltTillgodoraknad": false,

```

```

85     "KanExkluderas": false,
86     "SenastAttesteradeResultat": {
87         "Anteckning": "Detaljer om kursresultat från gamla Ladok: Inläggningsdatum (idatum):[2010-04-
88         "Beslutsdatum": "2010-04-07",
89         "Beslutsfattare": "Sonja Buchegger",
90         "Betygsgrad": 131661,
91         "Betygsgradsobjekt": {
92             "GiltigSomSlutbetyg": true,
93             "ID": 131661,
94             "Kod": "A"
95         },
96         "BetygsskalaID": 131657,
97         "Examinationsdatum": "2010-04-07",
98         "ForbereddForBorttag": false,
99         "KursinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
100        "KurstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
101        "Noteringar": [],
102        "Noteringsdefinitioner": [],
103        "ProcessStatus": 3,
104        "ResultatUID": "d274ed3f-741a-11e8-b046-cb26945c40f5",
105        "SenasteResultatandring": "2018-06-20T01:45:18.367",
106        "StudentUID": "de709f81-a867-11e7-8dbf-78e86dc2470c",
107        "StudieresultatUID": "a4a4be29-73f2-11e8-b046-cb26945c40f5",
108        "Uid": "d274ed3f-741a-11e8-b046-cb26945c40f5",
109        "UtbildningsinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3"
110    },
111    "TotalTillgodoraknadOmfattning": 0.0,
112    "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54"
113 }
114 ],
115 "Student": {
116     "Efternamn": "Studentzadeh",
117     "Fornamn": "Student",
118     "Personnummer": "191234561234",
119     "Uid": "de709f81-a867-11e7-8dbf-78e86dc2470c"
120 },
121 "Uid": "a4a4be29-73f2-11e8-b046-cb26945c40f5"
122 }
123 ]

```

19.1.2 search_course_results_JSON

Another method, which gives slightly different results is the following.

```

422 <LadokSession data methods 126b>+=
def search_course_results_JSON(self, course_round_id, component_instance_id):
    """
    Retrieve course results for a specific component in a course round.

    Args:
        course_round_id (str): The unique identifier of the course round.

```

`component_instance_id (str)`: The unique identifier of the component instance.

Returns:

`list`: List of course result JSON objects.

Raises:

`LadokAPIError`: If the request fails.

"""

```
put_data = {
    "KurstillfallenUID": [course_round_id],
    "Tillstand": ["REGISTRERAD", "AVKLARAD", "AVBROTT"],
    "OrderBy": ["EFTERNAMN_ASC", "FORNAMN_ASC"],
    "Limit": 400,
    "Page": 1,
}

data = self.put_query(
    "/resultat/internal/resultatuppfoljning/resultatuppfoljning/sok",
    put_data)

try:
    return data["Resultat"]
except KeyError as err:
    err.add_note(f"Response data: {data}")
    raise LadokAPIError(f"Unexpected response format when searching course results for "
                        f"round {course_round_id}, component {component_instance_id}: "
                        f"missing 'Resultat' key") from err
```

We test this by the following.

423

```
<test functions 126a>+≡
def test_search_course_results_JSON():
    results = ladok.search_course_results_JSON(dasak_round_id, LAB1_instance_id)
    assert json.dumps(results, indent=2, ensure_ascii=False)
```

This code is used in chunk 121.

The output looks like this.

```
1  [
2    {
3      "KurstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
4      "LarosateID": 29,
5      "Resultat": [
6        {
7          "Betygsgradskod": "P",
8          "Examinationsdatum": "2010-04-07",
9          "LarosateID": 29,
10         "SenastAndradAv": "informationskonverterare@kth",
11         "SenastSparad": "2018-06-20T00:29:18.755",
12         "UId": "34b536b2-7410-11e8-b046-cb26945c40f5",
13         "UtbildningUID": "39ca27fe-73d8-11e8-afa7-8e408e694e54",
14         "UtbildningsinstansUID": "39ca2861-73d8-11e8-b4e0-063f9afb40e3"
15       },
16     ],
17   ]
```

```

16     {
17         "Betygsgradskod": "A",
18         "Examinationsdatum": "2010-03-18",
19         "LarosateID": 29,
20         "SenastAndradAv": "informationskonverterare@kth",
21         "SenastSparad": "2018-06-20T00:29:18.755",
22         "UId": "34b780dc-7410-11e8-b046-cb26945c40f5",
23         "UtbildningUID": "39c593d1-73d8-11e8-afa7-8e408e694e54",
24         "UtbildningsinstansUID": "39c5947b-73d8-11e8-b4e0-063f9afb40e3"
25     },
26     {
27         "Betygsgradskod": "A",
28         "Examinationsdatum": "2010-04-07",
29         "LarosateID": 29,
30         "SenastAndradAv": "informationskonverterare@kth",
31         "SenastSparad": "2018-06-20T01:45:18.369",
32         "UId": "d274ed3f-741a-11e8-b046-cb26945c40f5",
33         "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
34         "UtbildningsinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3"
35     }
36 ],
37 "Student": {
38     "Efternamn": "Studentzadeh",
39     "Fornamn": "Student",
40     "Personnummer": "191234561234",
41     "UId": "de709f81-a867-11e7-8dbf-78e86dc2470c"
42 },
43 "Tillstand": "AVKLARAD"
44 }
45 ]

```

19.2 Results for a student: student_results_JSON

This method pulls results for an individual student for a particular course. LADOK changed this API request in 2022.

```

424 <LadokSession data methods 126b>+=
def student_results_JSON(self, student_id, course_education_id):
    """Returns the results for a student on a course"""
    try:
        return self.get_query(
            "/resultat/internal/studentenskurser/kursinformation"
            f"/student/{student_id}/kursUID/{course_education_id}"
        )
    except LadokAPIError as err:
        raise LadokAPIError(f"Failed to get results for student {student_id} "
                             f"on course {course_education_id}: {err}") from err
    except LadokServerError as err:
        raise LadokServerError(f"LADOK server error when getting results for "
                                f"student {student_id} on course {course_education_id}: "
                                f"{err}") from err

```

We test this in the following way.

```
425 <test functions 126a>+≡
def test_student_results_JSON():
    results = ladok.student_results_JSON(student_uid, dasak_education_id)
    assert json.dumps(results, indent=2, ensure_ascii=False)
```

This code is used in chunk 121.

The output looks like this.

```
1 {
2   "GallandeKurstillfalle": {
3     "Slutdatum": "2010-03-21",
4     "Startdatum": "2010-01-18",
5     "StudielokaliseringID": 131778,
6     "StudietaktID": 1,
7     "TillfallesKod": "81099",
8     "Uid": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
9     "UndervisningsformID": 1
10  },
11  "Kursversioner": [
12    {
13      "ArAktuellVersion": true,
14      "GallandeKurstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
15      "HarTillgodoraknandePaHelaKursen": false,
16      "Kursversion": 1,
17      "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
18      "UtbildningsinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
19      "VersionensKurs": {
20        "Betygsskala": {
21          "Benamning": {
22            "sv": "Sjugradig betygsskala",
23            "en": "Seven point grading scale"
24          },
25          "Beskrivning": {},
26          "Betygsgrad": [
27            {
28              "Benamning": {
29                "sv": "Utmärkt",
30                "en": "Excellent"
31              },
32              "GiltigSomSlutbetyg": true,
33              "ID": 131661,
34              "Kod": "A"
35            },
36            {
37              "Benamning": {
38                "sv": "Mycket bra",
39                "en": "Very Good"
40              },
41              "GiltigSomSlutbetyg": true,
42              "ID": 131667,
```



```

43     "Kod": "B"
44   },
45   {
46     "Benamning": {
47       "sv": "Bra",
48       "en": "Good"
49     },
50     "GiltigSomSlutbetyg": true,
51     "ID": 131673,
52     "Kod": "C"
53   },
54   {
55     "Benamning": {
56       "sv": "Tillfredsställande",
57       "en": "Satisfactory"
58     },
59     "GiltigSomSlutbetyg": true,
60     "ID": 131679,
61     "Kod": "D"
62   },
63   {
64     "Benamning": {
65       "sv": "Tillräcklig",
66       "en": "Sufficient"
67     },
68     "GiltigSomSlutbetyg": true,
69     "ID": 131691,
70     "Kod": "E"
71   },
72   {
73     "Benamning": {
74       "sv": "Underkänd",
75       "en": "Not satisfactory"
76     },
77     "GiltigSomSlutbetyg": false,
78     "ID": 131696,
79     "Kod": "FX"
80   },
81   {
82     "Benamning": {
83       "sv": "Underkänd",
84       "en": "Failed"
85     },
86     "GiltigSomSlutbetyg": false,
87     "ID": 131697,
88     "Kod": "F"
89   }
90 ],
91 "Dolt": false,
92 "Giltighetsperiod": {
93   "Startdatum": "2007-07-01"

```

```

94     },
95     "ID": "131657",
96     "Kod": "AF"
97 },
98 "Enhet": "HP",
99 "GallerUtbildningUtanAngivenOmfattning": false,
100 "HarTillgodoraknandePaHelaUtbildningen": false,
101 "Kod": "DD2395",
102 "KravPaHanvisningTillBeslutshandling": false,
103 "KravPaProjekttitel": false,
104 "KursenHarAvbrott": false,
105 "Omfattning": 6.0,
106 "ResultatPaKursVidAttestingAvModul": false,
107 "ResultatPaUtbildning": {
108     "HarTillgodoraknande": false,
109     "HeltTillgodoraknad": false,
110     "KanExkluderas": false,
111     "OvrigaResultat": [],
112     "SenastAttesteradeResultat": {
113         "Anteckning": "Detaljer om kursresultat från gamla Ladok: Inläggningsdatum (idatum):[2010-0
114         "Beslutsdatum": "2010-04-07",
115         "Beslutsfattare": "Sonja Buchegger",
116         "Betygsgrad": 131661,
117         "Betygsgradsobjekt": {
118             "Benamning": {
119                 "sv": "Utmärkt",
120                 "en": "Excellent"
121             },
122             "GiltigSomSlutbetyg": true,
123             "ID": 131661,
124             "Kod": "A"
125         },
126         "BetygsskalaID": 131657,
127         "Examinationsdatum": "2010-04-07",
128         "ForbereddForBorttag": false,
129         "KursinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
130         "KurstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
131         "Noteringar": [],
132         "Noteringsdefinitioner": [],
133         "ProcessStatus": 3,
134         "ResultatUID": "d274ed3f-741a-11e8-b046-cb26945c40f5",
135         "SenasteResultatandring": "2018-06-20T01:45:18.367",
136         "StudentUID": "de709f81-a867-11e7-8dbf-78e86dc2470c",
137         "StudieresultatUID": "a4a4be29-73f2-11e8-b046-cb26945c40f5",
138         "Uid": "d274ed3f-741a-11e8-b046-cb26945c40f5",
139         "UtbildningsinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3"
140     },
141     "TotalTillgodoraknadOmfattning": 0.0,
142     "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54"
143 },
144 "Tillgodoraknanden": [],

```

```
145     "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
146     "UtbildningsinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
147     "Utbildningsinstansbenamningar": {
148       "sv": "Datasäkerhet",
149       "en": "Computer Security"
150     }
151   },
152   "VersionensModuler": [
153     {
154       "Betygsskala": {
155         "Benamning": {
156           "sv": "Sjugradig betygsskala",
157           "en": "Seven point grading scale"
158         },
159         "Beskrivning": {},
160         "Betygsgrad": [
161           {
162             "Benamning": {
163               "sv": "Utmärkt",
164               "en": "Excellent"
165             },
166             "GiltigSomSlutbetyg": true,
167             "ID": 131661,
168             "Kod": "A"
169           },
170           {
171             "Benamning": {
172               "sv": "Mycket bra",
173               "en": "Very Good"
174             },
175             "GiltigSomSlutbetyg": true,
176             "ID": 131667,
177             "Kod": "B"
178           },
179           {
180             "Benamning": {
181               "sv": "Bra",
182               "en": "Good"
183             },
184             "GiltigSomSlutbetyg": true,
185             "ID": 131673,
186             "Kod": "C"
187           },
188           {
189             "Benamning": {
190               "sv": "Tillfredsställande",
191               "en": "Satisfactory"
192             },
193             "GiltigSomSlutbetyg": true,
194             "ID": 131679,
195             "Kod": "D"
```

```

196     },
197     {
198         "Benamning": {
199             "sv": "Tillräcklig",
200             "en": "Sufficient"
201         },
202         "GiltigSomSlutbetyg": true,
203         "ID": 131691,
204         "Kod": "E"
205     },
206     {
207         "Benamning": {
208             "sv": "Underkänd",
209             "en": "Not satisfactory"
210         },
211         "GiltigSomSlutbetyg": false,
212         "ID": 131696,
213         "Kod": "FX"
214     },
215     {
216         "Benamning": {
217             "sv": "Underkänd",
218             "en": "Failed"
219         },
220         "GiltigSomSlutbetyg": false,
221         "ID": 131697,
222         "Kod": "F"
223     }
224 ],
225 "Dolt": false,
226 "Giltighetsperiod": {
227     "Startdatum": "2007-07-01"
228 },
229 "ID": "131657",
230 "Kod": "AF"
231 },
232 "Enhet": "HP",
233 "GallerUtbildningUtanAngivenOmfattning": false,
234 "HarTillgodoraknandePaHelaUtbildningen": false,
235 "Kod": "TEN1",
236 "KravPaHanvisningTillBeslutshandling": false,
237 "KravPaProjektitel": false,
238 "KursenHarAvbrott": false,
239 "Omfattning": 3.0,
240 "ResultatPaKursVidAttesteringAvModul": false,
241 "ResultatPaUtbildning": {
242     "HarTillgodoraknande": false,
243     "HeltTillgodoraknad": false,
244     "KanExkluderas": false,
245     "OvrigaResultat": [],
246     "SenastAttesteradeResultat": {

```

```

247     "Anteckning": "Detaljer om modulresultat från gamla Ladok: Inläggningsdatum (idatum):[201
248     "Beslutsdatum": "2010-03-18",
249     "Beslutsfattare": "Uppgift om examinerator saknas/Not applicable",
250     "Betygsgrad": 131661,
251     "Betygsgradsobjekt": {
252         "Benamning": {
253             "sv": "Utmärkt",
254             "en": "Excellent"
255         },
256         "GiltigSomSlutbetyg": true,
257         "ID": 131661,
258         "Kod": "A"
259     },
260     "BetygsskalaID": 131657,
261     "Examinationsdatum": "2010-03-18",
262     "ForbereddForBorttag": false,
263     "KursinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
264     "KurstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
265     "Noteringar": [],
266     "Noteringsdefinitioner": [],
267     "ProcessStatus": 3,
268     "ResultatUID": "34b780dc-7410-11e8-b046-cb26945c40f5",
269     "SenasteResultatandring": "2018-06-20T00:29:18.754",
270     "StudentUID": "de709f81-a867-11e7-8dbf-78e86dc2470c",
271     "StudieresultatUID": "a4a4be29-73f2-11e8-b046-cb26945c40f5",
272     "Uid": "34b780dc-7410-11e8-b046-cb26945c40f5",
273     "UtbildningsinstansUID": "39c5947b-73d8-11e8-b4e0-063f9afb40e3"
274 },
275     "TotalTillgodoraknadOmfattning": 0.0,
276     "UtbildningUID": "39c593d1-73d8-11e8-afa7-8e408e694e54"
277 },
278     "Tillgodoraknanden": [],
279     "UtbildningUID": "39c593d1-73d8-11e8-afa7-8e408e694e54",
280     "UtbildningsinstansUID": "39c5947b-73d8-11e8-b4e0-063f9afb40e3",
281     "Utbildningsinstansbenamningar": {
282         "sv": "Tentamen",
283         "en": "Examination"
284     }
285 },
286 {
287     "Betygsskala": {
288         "Benamning": {
289             "sv": "Tvågradig betygsskala",
290             "en": "Two point grading scale"
291         },
292         "Beskrivning": {},
293         "Betygsgrad": [
294             {
295                 "Benamning": {
296                     "sv": "Godkänd",
297                     "en": "Pass"

```

```

298         },
299         "GiltigSomSlutbetyg": true,
300         "ID": 131658,
301         "Kod": "P"
302     },
303     {
304         "Benamning": {
305             "sv": "Underkänd",
306             "en": "Failed"
307         },
308         "GiltigSomSlutbetyg": false,
309         "ID": 131663,
310         "Kod": "F"
311     }
312 ],
313 "Dolt": false,
314 "Giltighetsperiod": {},
315 "ID": "131656",
316 "Kod": "PF"
317 },
318 "Enhet": "HP",
319 "GallerUtbildningUtanAngivenOmfattning": false,
320 "HarTillgodoraknandePaHelaUtbildningen": false,
321 "Kod": "LAB1",
322 "KravPaHanvisningTillBeslutshandling": false,
323 "KravPaProjekttitel": false,
324 "KursenHarAvbrott": false,
325 "Omfattning": 3.0,
326 "ResultatPaKursVidAttesteringAvModul": false,
327 "ResultatPaUtbildning": {
328     "HarTillgodoraknande": false,
329     "HeltTillgodoraknad": false,
330     "KanExkluderas": false,
331     "OvrigaResultat": [],
332     "SenastAttesteradeResultat": {
333         "Anteckning": "Detaljer om modulresultat från gamla Ladok: Inläggningsdatum (idatum):[201
334         "Beslutsdatum": "2010-04-07",
335         "Beslutsfattare": "Uppgift om examinerator saknas/Not applicable",
336         "Betygsgrad": 131658,
337         "Betygsgradsobjekt": {
338             "Benamning": {
339                 "sv": "Godkänd",
340                 "en": "Pass"
341             },
342             "GiltigSomSlutbetyg": true,
343             "ID": 131658,
344             "Kod": "P"
345         },
346         "BetygsskalaID": 131656,
347         "Examinationsdatum": "2010-04-07",
348         "ForbereddForBorttag": false,

```

```

349         "KursinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
350         "KurstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
351         "Noteringar": [],
352         "Noteringsdefinitioner": [],
353         "ProcessStatus": 3,
354         "ResultatUID": "34b536b2-7410-11e8-b046-cb26945c40f5",
355         "SenasteResultatandring": "2018-06-20T00:29:18.739",
356         "StudentUID": "de709f81-a867-11e7-8dbf-78e86dc2470c",
357         "StudieresultatUID": "a4a4be29-73f2-11e8-b046-cb26945c40f5",
358         "Uid": "34b536b2-7410-11e8-b046-cb26945c40f5",
359         "UtbildningsinstansUID": "39ca2861-73d8-11e8-b4e0-063f9afb40e3"
360     },
361     "TotalTillgodoraknadOmfattning": 0.0,
362     "UtbildningUID": "39ca27fe-73d8-11e8-afa7-8e408e694e54"
363 },
364 "Tillgodoraknanden": [],
365 "UtbildningUID": "39ca27fe-73d8-11e8-afa7-8e408e694e54",
366 "UtbildningsinstansUID": "39ca2861-73d8-11e8-b4e0-063f9afb40e3",
367 "Utbildningsinstansbenamningar": {
368     "sv": "Laborationer",
369     "en": "Laboratory Work"
370 }
371 }
372 ]
373 }
374 ],
375 "NoteringsdefinitionerKoppladeTillResultat": [],
376 "ResultatUtanKopplingTillKursversion": [],
377 "StudentUID": "de709f81-a867-11e7-8dbf-78e86dc2470c",
378 "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54"
379 }

```

19.3 Modifying results

We have two alternatives: add a new result or update an existing result draft.

19.3.1 create_result_JSON

This method is used to create a new result. This result will be a draft. It must later be finalized and then attested.

Note that since this is a new result, we must provide the StudieresultatUID where we want to add the result. When we've done this, we'll get a ResultatUID back in the response. From then on, it's the ResultatUID that's interesting.

Note also that we can use `course_instance_id` as `component_id`, this will set the result on the whole course.

```

432 <LadokSession data methods 126b>+=
    def create_result_JSON(self,
        student_id, course_instance_id, component_id,
        grade_id, date,
        project_title=None):

```

```

"""
Creates a new result
"""
try:
    return self.post_query(
        f"/resultat/internal/resultat/student/{student_id}"
        f"/kursinstans/{course_instance_id}"
        f"/utbildningsinstans/{component_id}"
        f"/skapa",
        {
            "Betygsgrad": grade_id,
            "Examinationsdatum": date,
            "Projekttitel": project_title
        }
    )
except LadokAPIError as err:
    raise LadokAPIError(f"Failed to create result for student {student_id} "
                        f"on component {component_id}: {err}") from err
except LadokServerError as err:
    raise LadokServerError(f"LADOK server error when creating result for "
                           f"student {student_id} on component {component_id}: "
                           f"{err}") from err

```

We test this in the following way.

```

433 <test functions 126a>+≡
    datintro_student_uid = "76291c55-d24a-11ea-a4db-82cca4dd4b3e"
    datintro_instance_id = "2179e02c-d6b5-11e8-8fd5-cf9d2c5c41ba"
    datintro_LAB1_id = "385a4428-73d8-11e8-b4e0-063f9afb40e3"

    result_uid = None
    result_last_modified = None

    def test_create_result_JSON():
        result = ladok.create_result_JSON(
            datintro_student_uid, datintro_instance_id, datintro_LAB1_id,
            131663, "2022-11-29")

        global result_uid
        result_uid = result["Uid"]
        global result_last_modified
        result_last_modified = result["SenasteResultatandring"]

        assert json.dumps(result, indent=2, ensure_ascii=False)

```

This code is used in chunk 121.

The output looks like this.

```

1  {
2    "Betygsgrad": 131663,
3    "Betygsgradsobjekt": {
4      "GiltigSomSlutbetyg": false,

```



```

5     "ID": 131663,
6     "Kod": "F"
7 },
8 "BetygsskalaID": 131656,
9 "Examinationsdatum": "2022-11-27",
10 "ForbereddForBorttag": false,
11 "KursinstansUID": "2179e02c-d6b5-11e8-8fd5-cf9d2c5c41ba",
12 "KurstillfalleUID": "e058a850-1a94-11ea-a622-3565135944de",
13 "Noteringar": [],
14 "Noteringsdefinitioner": [],
15 "ProcessStatus": 1,
16 "ResultatUID": "b6d696fd-2c23-11f1-99a3-8d248b6d4bc2",
17 "SenasteResultatandring": "2026-03-30T12:32:12.819",
18 "StudentUID": "76291c55-d24a-11ea-a4db-82cca4dd4b3e",
19 "StudieresultatUID": "c052ecf9-e2d6-11ea-8f88-9c9fd6664756",
20 "Uid": "b6d696fd-2c23-11f1-99a3-8d248b6d4bc2",
21 "UtbildningsinstansUID": "385a4428-73d8-11e8-b4e0-063f9afb40e3"
22 }

```

LADOK changed this API request in 2022.

19.3.2 update_result_JSON

This method updates an existing result draft. Note that we cannot use this method to update a finalized result. Note also that we use the ResultatUID and not the StudieresultatUID as we did for create_result_JSON.

```

434 <LadokSession data methods 126b>+=
def update_result_JSON(self,
    result_id, grade_id, date, last_modified, notes=[]):
    """Update an existing result draft in LADOK.

```

Note: Cannot be used to update finalized results. Uses ResultatUID, not StudieresultatUID.

Args:

```

    result_id (str): The unique result identifier (ResultatUID).
    grade_id (int): The numeric grade identifier from the grade scale.
    date (str): Examination date in YYYY-MM-DD format.
    last_modified (str): Last modification timestamp to prevent conflicts.
    notes (list, optional): List of notes to attach to the result.

```

Returns:

```

    dict: Updated result data from LADOK.

```

Raises:

```

    Exception: If the update request fails or is rejected by LADOK.

```

```

"""

```

try:

```

    return self.put_query(
        f"/resultat/internal/resultat/uppdatera/{result_id}",
        {

```

```

        'Betygsgrad': grade_id,
        'Examinationsdatum': date,
        'Noteringar': notes,
        'SenasteResultatandring': last_modified
    }
)
except LadokAPIError as err:
    raise LadokAPIError(f"Failed to update result {result_id}: {err}") from err
except LadokServerError as err:
    raise LadokServerError(f"LADOK server error when updating result "
                           f"{result_id}: {err}") from err

```

We test this in the following way.

```

435 <test functions 126a>+≡
def test_update_result_JSON():
    global result_uid
    global result_last_modified

    result = ladok.update_result_JSON(
        result_uid, 131658, "2022-11-28", result_last_modified)

    result_last_modified = result["SenasteResultatandring"]

    assert json.dumps(result, indent=2, ensure_ascii=False)

```

This code is used in chunk 121.

The output looks like this.

```

1  {
2      "Betygsgrad": 131658,
3      "Betygsgradsobjekt": {
4          "GiltigSomSlutbetyg": true,
5          "ID": 131658,
6          "Kod": "P"
7      },
8      "BetygsskalaID": 131656,
9      "Examinationsdatum": "2022-11-29",
10     "ForbereddForBorttag": false,
11     "KursinstansUID": "2179e02c-d6b5-11e8-8fd5-cf9d2c5c41ba",
12     "KurstillfalleUID": "e058a850-1a94-11ea-a622-3565135944de",
13     "Noteringar": [],
14     "Noteringsdefinitioner": [],
15     "ProcessStatus": 1,
16     "ResultatUID": "b6d696fd-2c23-11f1-99a3-8d248b6d4bc2",
17     "SenasteResultatandring": "2026-03-30T12:32:12.905",
18     "StudentUID": "76291c55-d24a-11ea-a4db-82cca4dd4b3e",
19     "StudieresultatUID": "c052ecf9-e2d6-11ea-8f88-9c9fd6664756",
20     "Uid": "b6d696fd-2c23-11f1-99a3-8d248b6d4bc2",
21     "UtbildningsinstansUID": "385a4428-73d8-11e8-b4e0-063f9afb40e3"
22 }

```

19.4 Finalizing a result

Here we cover the API calls needed to finalize (klarmarkera) a result in LADOK. To finalize a result, we first need to know the possible reporters and attestants. However, normally that's us, so we want to find the info of the currently logged in LADOK user.

19.4.1 result_attestants_JSON and result_reporters_JSON

To finalize a result, we must know two things: who is reporting and who can attest. We start with who can attest.

```
436a <LadokSession data methods 126b>+=
def result_attestants_JSON(self, result_id):
    """Returns a list of result attestants"""
    data = self.put_query(
        "/resultat/internal/anvandare/resultatrattinghet/attestanter/kurstillfallesrapportering",
        {"Identitet": [result_id]}
    )

    try:
        return data["Anvandare"]
    except KeyError as err:
        err.add_note(f"Response data: {data}")
        raise LadokAPIError(f"Unexpected response format when fetching attestants for "
                             f"result {result_id}: missing 'Anvandare' key") from err
```

The `result_id` is the ID returned in the `ResultatUID` field in the response from the `create_result_JSON` method.

LADOK changed this API request in 2022: the internal is mandatory part of the path.

We can test this in the following way.

```
436b <test functions 126a>+=
def test_result_attestants_JSON():
    global result_uid
    try:
        attestants = ladok.result_attestants_JSON(result_uid)
        assert json.dumps(attestants, indent=2, ensure_ascii=False)
    except Exception as err:
        assert "Några av angivna resultatidentiter" in str(err)
```

This code is used in chunk 121.

The output looks like this.

```
1  [
2    {
3      "Anvandarnamn": "user@domain.se",
4      "Efternamn": "Studentzadeh",
5      "Fornamn": "Student",
6      "Uid": "0ad46a6f-f058-11e6-914e-6af6ab854a1a"
7    },
8    {
9      "Anvandarnamn": "user@domain.se",
10     "Efternamn": "Studentzadeh",
```

```

11     "Fornamn": "Student",
12     "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
13 }
14 ]

```

Now, we get a list of who can report (basically anyone registered in the entire organization).

```

437a <LadokSession data methods 126b>+=
def result_reporters_JSON(self, organization_id):
    """Returns a list of who can report results in an organization"""
    data = self.get_query(
        "/kataloginformation/internal/anvandare/organisation/" +
        organization_id + "/resultatrapportorer",
        "application/vnd.ladok-kataloginformation+json"
    )

    try:
        return data["Anvandare"]
    except KeyError as err:
        err.add_note(f"Response data: {data}")
        raise LadokAPIError(f"Unexpected response format when fetching reporters for "
                             f"organization {organization_id}: missing 'Anvandare' key") from err

```

We test this method as follows.

```

437b <test functions 126a>+=
def test_result_reporters_JSON():
    reporters = ladok.result_reporters_JSON(KTH_org_id)
    assert json.dumps(reporters, indent=2, ensure_ascii=False)

```

This code is used in chunk 121.

The output looks like this.

```

1  [
2    {
3      "AnvandareStatus": "AKTIV",
4      "Anvandarnamn": "user@domain.se",
5      "Efternamn": "Studentzadeh",
6      "Fornamn": "Student",
7      "LarosateID": 29,
8      "Uid": "7c3b78ca-5790-11e9-aa01-33005ebe4882"
9    },
10   {
11     "AnvandareStatus": "AKTIV",
12     "Anvandarnamn": "user@domain.se",
13     "Efternamn": "Studentzadeh",
14     "Fornamn": "Student",
15     "LarosateID": 29,
16     "Uid": "c2c14b87-3a90-11e9-98c7-6e9130f64812"
17   },
18   {
19     "AnvandareStatus": "AKTIV",
20     "Anvandarnamn": "user@domain.se",

```

```

21     "Efternamn": "Studentzadeh",
22     "Fornamn": "Student",
23     "LarosateID": 29,
24     "Uid": "ab6ef714-15fb-11e7-a1a0-8cb7e2bc425d"
25 }
26 ]

```

19.4.2 user_info_JSON

Usually, we want to set the reporter to the logged-in user. We can use the following API call to get information about the logged-in user.

438a *<LadokSession data methods 126b>+≡*

```

def user_info_JSON(self):
    """
    Get information about the currently logged-in user.

    Returns:
        dict: User information including name, roles, and permissions.

    Raises:
        Exception: If the request fails or returns an error status.
    """
    try:
        return self.get_query(
            "/kataloginformation/internal/anvandare/anvandarinformation",
            "application/vnd.ladok-kataloginformation+json"
        )
    except LadokAPIError as err:
        raise LadokAPIError(f"Failed to get user info: {err}") from err
    except LadokServerError as err:
        raise LadokServerError(f"LADOK server error when getting user info: "
                                f"{err}") from err

```

We test this as follows.

438b *<test functions 126a>+≡*

```

def test_user_info_JSON():
    me_teacher = ladok.user_info_JSON()
    assert json.dumps(me_teacher, indent=2, ensure_ascii=False)

```

This code is used in chunk 121.

The output looks like this.

```

1  {
2    "AnvandareUID": "21f4667a-e864-11ea-adbf-a14961264cf0",
3    "Epost": "dbosk@kth.se",
4    "Leveranspreferenser": [],
5    "Uid": "25c8c6d7-e864-11ea-adbf-a14961264cf0"
6  }

```

19.4.3 finalize_result_JSON

Finally, we can finalize the reported grade. If attestant_id is not None, then LADOK will send a notification to that person. (LADOK changed this API request in 2022.)

```
439a <LadokSession data methods 126b>+=
def finalize_result_JSON(self,
    result_id, last_modified, reporter_id, attestant_ids=[],
    others=[]):
    """Marks a result as finalized (klarmarkera)"""
    try:
        return self.put_query(
            f"/resultat/internal/resultat/klarmarkera/{result_id}",
            {
                "Beslutsfattare": attestant_ids,
                "KlarmarkeradAvUID": reporter_id,
                "RattadAv": [],
                "OvrigaMedverkande": "\n".join(set(others)),
                "ResultatetsSenastSparad": last_modified
            }
        )
    except LadokAPIError as err:
        raise LadokAPIError(f"Failed to finalize result {result_id}: {err}") from err
    except LadokServerError as err:
        raise LadokServerError(f"LADOK server error when finalizing result "
                                f"{result_id}: {err}") from err
```

This method returns a copy of the finalized result.

We test this in the following way.

```
439b <test functions 126a>+=
reporter_id = "21f4667a-e864-11ea-adbf-a14961264cf0"

def test_finalize_result_JSON():
    global result_uid
    global result_last_modified

    result = ladok.finalize_result_JSON(
        result_uid, result_last_modified, reporter_id)

    result_last_modified = result["SenasteResultatandring"]

    assert result.get("ProcessStatus") == 2
    assert json.dumps(result, indent=2, ensure_ascii=False)
```

This code is used in chunk 121.

We also want to verify that the CourseResult class correctly reflects the finalized state through its finalized property.

```
439c <test functions 126a>+=
def test_finalized_CourseResult():
    """Verify CourseResult.finalized property after finalization."""
    student = ladok.get_student(datintro_student_uid)
```

```

# Find the course participation for datintro
courses = [c for c in student.courses()
            if c.instance_id == datintro_instance_id]
assert len(courses) > 0, "Student should have course participation"
course = courses[0]

# Find the result that was just finalized (should be finalized but not attested)
results = course.results()
finalized_results = [r for r in results
                     if r.finalized and not r.attested]
assert len(finalized_results) > 0, "Should have a finalized result"

result = finalized_results[0]
assert result.finalized == True
assert result.attested == False

```

This code is used in chunk 121.

The output looks like this.

```

1  {
2    "Betygsgrad": 131658,
3    "Betygsgradsobjekt": {
4      "GiltigSomSlutbetyg": true,
5      "ID": 131658,
6      "Kod": "P"
7    },
8    "BetygsskalaID": 131656,
9    "Examinationsdatum": "2022-11-29",
10   "ForbereddForBorttag": false,
11   "KursinstansUID": "2179e02c-d6b5-11e8-8fd5-cf9d2c5c41ba",
12   "KurstillfalleUID": "e058a850-1a94-11ea-a622-3565135944de",
13   "Noteringar": [],
14   "Noteringsdefinitioner": [],
15   "ProcessStatus": 2,
16   "ResultatUID": "b6d696fd-2c23-11f1-99a3-8d248b6d4bc2",
17   "SenasteResultatandring": "2026-03-30T12:32:13.193",
18   "StudentUID": "76291c55-d24a-11ea-a4db-82cca4dd4b3e",
19   "StudieresultatUID": "c052ecf9-e2d6-11ea-8f88-9c9fd6664756",
20   "Uid": "b6d696fd-2c23-11f1-99a3-8d248b6d4bc2",
21   "UtbildningsinstansUID": "385a4428-73d8-11e8-b4e0-063f9afb40e3"
22 }

```

19.4.4 update_finalized_result_JSON

To update an already finalised result, we can use the following API call. The only difference from the call above (Section 19.3.2) is that the URL uses uppdateraklarmarkerat instead of just uppdatera.

```

440 <LadokSession data methods 126b>+=
    def update_finalized_result_JSON(self,
        result_id, grade_id, date, last_modified, notes=[]):
        try:

```

```

    return self.put_query(
        f"/resultat/internal/resultat/uppdateraklarmarkerat/{result_id}",
        {
            'Betygsgrad': grade_id,
            'Examinationsdatum': date,
            'Noteringar': notes,
            'SenasteResultatandring': last_modified
        }
    )
except LadokAPIError as err:
    raise LadokAPIError(f"Failed to update finalized result {result_id}: "
                        f"{err}") from err
except LadokServerError as err:
    raise LadokServerError(f"LADOK server error when updating finalized result "
                           f"{result_id}: {err}") from err

```

We test this in the following way.

```

441 <test functions 126a>+=
def test_update_finalized_result_JSON():
    global result_uid
    global result_last_modified

    result = ladok.update_finalized_result_JSON(
        result_uid, 131658, "2022-11-29", result_last_modified)

    result_last_modified = result["SenasteResultatandring"]

    assert json.dumps(result, indent=2, ensure_ascii=False)

```

This code is used in chunk 121.

The output looks like this.

```

1  {
2    "Betygsgrad": 131658,
3    "Betygsgradsobjekt": {
4      "GiltigSomSlutbetyg": true,
5      "ID": 131658,
6      "Kod": "P"
7    },
8    "BetygsskalaID": 131656,
9    "Examinationsdatum": "2022-11-29",
10   "ForbereddForBorttag": false,
11   "KursinstansUID": "2179e02c-d6b5-11e8-8fd5-cf9d2c5c41ba",
12   "KurstillfalleUID": "e058a850-1a94-11ea-a622-3565135944de",
13   "Noteringar": [],
14   "Noteringsdefinitioner": [],
15   "ProcessStatus": 2,
16   "ResultatUID": "b6d696fd-2c23-11f1-99a3-8d248b6d4bc2",
17   "SenasteResultatandring": "2026-03-30T12:32:13.261",
18   "StudentUID": "76291c55-d24a-11ea-a4db-82cca4dd4b3e",
19   "StudieresultatUID": "c052ecf9-e2d6-11ea-8f88-9c9fd6664756",
20   "Uid": "b6d696fd-2c23-11f1-99a3-8d248b6d4bc2",

```



```

21     "UtbildningsinstansUID": "385a4428-73d8-11e8-b4e0-063f9afb40e3"
22 }

```

19.4.5 finalized_result_to_draft_JSON

We can also change a result from finalized back to draft status.

```

442a <LadokSession data methods 126b>+=
def finalized_result_to_draft_JSON(self, result_id, last_modified):
    try:
        return self.put_query(
            f"/resultat/internal/resultat/tillbakatillutkast/{result_id}",
            {
                'ResultatUID': result_id,
                'ResultatetsSenastSparad': last_modified
            }
        )
    except LadokAPIError as err:
        raise LadokAPIError(f"Failed to change finalized result {result_id} to draft: "
                             f"{err}") from err
    except LadokServerError as err:
        raise LadokServerError(f"LADOK server error when changing finalized result "
                                f"{result_id} to draft: {err}") from err

```

We test this in the following way.

```

442b <test functions 126a>+=
def test_finalized_result_to_draft_JSON():
    global result_uid
    global result_last_modified

    result = ladok.finalized_result_to_draft_JSON(
        result_uid, result_last_modified)

    assert json.dumps(result, indent=2, ensure_ascii=False)

```

This code is used in chunk 121.

The output looks like this.

```

1  {
2      "Betygsgrad": 131658,
3      "Betygsgradsobjekt": {
4          "GiltigSomSlutbetyg": true,
5          "ID": 131658,
6          "Kod": "P"
7      },
8      "BetygsskalaID": 131656,
9      "Examinationsdatum": "2022-11-29",
10     "ForbereddForBorttag": false,
11     "KurstillfalleUID": "e058a850-1a94-11ea-a622-3565135944de",
12     "Noteringar": [],
13     "Noteringsdefinitioner": [],
14     "ProcessStatus": 1,
15     "ResultatUID": "b6d696fd-2c23-11f1-99a3-8d248b6d4bc2",

```

```

16  "SenasteResultatandring": "2026-03-30T12:32:13.33",
17  "StudentUID": "76291c55-d24a-11ea-a4db-82cca4dd4b3e",
18  "StudieresultatUID": "c052ecf9-e2d6-11ea-8f88-9c9fd6664756",
19  "Uid": "b6d696fd-2c23-11f1-99a3-8d248b6d4bc2",
20  "UtbildningsinstansUID": "385a4428-73d8-11e8-b4e0-063f9afb40e3"
21  }

```

19.4.6 remove_result_draft_JSON

We can also change a result from finalized back to draft status.

```

443a  <LadokSession data methods 126b>+=
      def remove_result_draft_JSON(self, result_id):
          try:
              data = self.del_query(
                  f"/resultat/internal/resultat/tabort/{result_id}"
              )
          except LadokAPIError as err:
              raise LadokAPIError(f"LADOK request to remove draft result "
                                   f"{result_id} failed: {err}") from err
          except LadokServerError as err:
              raise LadokServerError(f"LADOK server error when removing "
                                      f"draft result {result_id}: "
                                      f"{err}") from err

```

We test this in the following way.

```

443b  <test functions 126a>+=
      def test_remove_result_draft_JSON():
          global result_uid

          ladok.remove_result_draft_JSON(result_uid)

```

This code is used in chunk 121.

There is no output.

19.5 participants_JSON

The method returns JSON data containing a list of students (the participants in the course round). (This is an extension of Maguire's original `participants_JSON` method. The essential difference is keyword arguments to filter which students to include.)

```

443c  <LadokSession data methods 126b>+=
      def participants_JSON(self, course_round_id, /, **kwargs):
          """Returns JSON record containing participants in a course identified by
          round ID.
          Filters in kwargs: not_started, ongoing, registered, finished, cancelled"""
          participants_types = []
          if "not_started" in kwargs and kwargs["not_started"]:
              participants_types.append("EJ_PABORJAD")
          if "ongoing" in kwargs and kwargs["ongoing"]:
              participants_types.append("PAGAENDE")
          if "registered" in kwargs and kwargs["registered"]:

```

```

    participants_types.append("REGISTRERAD")
    if "finished" in kwargs and kwargs["finished"]:
        participants_types.append("AVKLARAD")
    if "cancelled" in kwargs and kwargs["cancelled"]:
        participants_types.append("AVBROTT")
    # 'ATERBUD', # Withdrawal
    # 'PAGAENDE_MED_SPARR', # on-going block exists
    # 'EJ_PAGAENDE_TILLFALLESBYTE', # not on-going due to instance exchange
    # 'UPPEHALL', # not on-going due to approved leave from studies

    if not kwargs:
        participants_types = ["PAGAENDE", "REGISTRERAD", "AVKLARAD"]

    put_data = {
        'page': 1,
        'limit': 400,
        'orderby': ['EFTERNAMN_ASC',
                    'FORNAMN_ASC',
                    'PERSONNUMMER_ASC',
                    'KONTROLLERAD_KURS_ASC'],
        'deltagaretilstand': participants_types,
        'utbildningstillfalleUID': [course_round_id]
    }

    response = self.put_query(
        '/studiedeltagande/internal/deltagare/kurstillfalle',
        put_data,
        "application/vnd.ladok-studiedeltagande+json")
    try:
        return response["Resultat"]
    except KeyError as err:
        err.add_note(f"Response data: {response}")
        raise LadokAPIError(f"Unexpected response format when fetching participants for "
                            f"round {course_round_id}: missing 'Resultat' key") from err

```

We test this as follows.

```

444 <test functions 126a>+≡
    def test_participants_JSON():
        results = ladok.participants_JSON(dasak_round_id)
        assert json.dumps(results, indent=2, ensure_ascii=False)

```

This code is used in chunk 121.

The output looks like this.

```

1  [
2    {
3      "Avklarad": true,
4      "FleraDeltagandenPaSammaUtbildning": false,
5      "KodRotpaketering": "CL",
6      "Nuvarande": true,
7      "Paborjad": true,

```

```
8     "Student": {
9         "Efternamn": "Studentzadeh",
10        "Fornamn": "Student",
11        "Personnummer": "191234561234",
12        "UId": "de709f81-a867-11e7-8dbf-78e86dc2470c"
13    },
14    "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
15    "TillfallesantagningUID": "99402e3c-73f2-11e8-b9fd-0a821ba7448e",
16    "TillstandI18n": "studiedeltagande.studenthantering.deltagare.tillstand.avklarad",
17    "TillstandKurs": {
18        "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
19        "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
20        "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
21        "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
22    },
23    "UId": "99402e3c-73f2-11e8-b9fd-0a821ba7448e",
24    "UtbildningstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3"
25 }
26 ]
```

Chapter 20

Other API calls

The following API calls were explored and written by Chip Maguire. Bosk has merely added tests and generated example output, as well as minor reformatting of the code.

20.1 grading_rights

We can get a list of our rights in LADOK.

```
446a <LadokSession data methods 126b>+=  
# added by GQMJr  
def grading_rights(self):  
    """  
    Returns a list of dictionaries with the grading rights of the logged in user.  
    """  
    r = self.session.get(  
        url=self.base_gui_proxy_url +  
        '/resultat/internal/resultatrattighet/listaforinloggadanvandare',  
        headers=self.headers)  
    if r.status_code == requests.codes.ok:  
        return r.json()['Resultatrattighet']  
    raise LadokAPIError(f"failed to get grading rights: {r.text}")
```

Let's add a test. This should return a list of dictionaries.

```
446b <test functions 126a>+=  
def test_grading_rights():  
    r = ladok.grading_rights()  
    assert type(r) == list  
    assert type(r[0]) == dict
```

This code is used in chunk 121.

The output looks like this:

```
1  [  
2  {  
3      "_resultatrattighet": "Kursrattighet",  
4      "Anvandare": {  
5          "Anvandarnamn": "user@domain.se",  
6          "Efternamn": "Studentzadeh",  
7          "Fornamn": "Student",
```

```

8      "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
9  },
10  "AviseraVidKlarForHelkurs": false,
11  "AvserAvveckladKurs": false,
12  "Benamning": "DD1301 Computer Introduction",
13  "Gruppavgransningar": [],
14  "KursUID": "385f74c0-73d8-11e8-afa7-8e408e694e54",
15  "Kursinstansavgransningar": [],
16  "Kurstillfallesavgransningar": [],
17  "Medarbetartyp": "RAPPORTOR",
18  "Modulavgransningar": [],
19  "Organisation": {
20    "Benamning": {
21      "sv": "EECS/Teoretisk datalogi",
22      "en": "EECS/Theoretical Computer Science"
23    },
24    "Kod": "JHT",
25    "Uid": "638add54-dc41-11e8-8cc1-eaeeb71b497f"
26  },
27  "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
28  "RattighetenSaknarPraktiskMening": false,
29  "SenastAndradAv": "tillman@kth.se",
30  "SenastSparad": "2026-01-29T10:51:14.672",
31  "Studentavgransningar": [],
32  "Uid": "0ce21f88-fcf8-11f0-9f6f-d1cf7b894209",
33  "Utbildningstypbenamning": {
34    "sv": "Kurs, grundniv\u00e5",
35    "en": "Course, First-cycle"
36  }
37 },
38 {
39   "_resultatrattighet": "Kursrattighet",
40   "Anvandare": {
41     "Anvandarnamn": "user@domain.se",
42     "Efternamn": "Studentzadeh",
43     "Fornamn": "Student",
44     "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
45   },
46   "AviseraVidKlarForHelkurs": false,
47   "AvserAvveckladKurs": false,
48   "Benamning": "DD1301 Computer Introduction",
49   "Gruppavgransningar": [],
50   "KursUID": "385f74c0-73d8-11e8-afa7-8e408e694e54",
51   "Kursinstansavgransningar": [],
52   "Kurstillfallesavgransningar": [],
53   "Medarbetartyp": "ATTESTANT",
54   "Modulavgransningar": [],
55   "Organisation": {
56     "Benamning": {
57       "sv": "EECS/Teoretisk datalogi",
58       "en": "EECS/Theoretical Computer Science"

```

```

59     },
60     "Kod": "JHT",
61     "UId": "638add54-dc41-11e8-8cc1-eaeeb71b497f"
62 },
63 "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
64 "RattighetenSaknarPraktiskMening": false,
65 "SenastAndradAv": "tillman@kth.se",
66 "SenastSparad": "2026-01-29T10:51:14.702",
67 "Studentavgransningar": [],
68 "UId": "0ce6b36a-fcf8-11f0-9f6f-d1cf7b894209",
69 "Utbildningstypbenamning": {
70     "sv": "Kurs, grundniv\u00e5",
71     "en": "Course, First-cycle"
72 }
73 },
74 {
75     "_resultatrattighet": "Kursrattighet",
76     "Anvandare": {
77         "Anvandarnamn": "user@domain.se",
78         "Efternamn": "Studentzadeh",
79         "Fornamn": "Student",
80         "UId": "21f4667a-e864-11ea-adbf-a14961264cf0"
81     },
82     "AviseraVidKlarForHelkurs": false,
83     "AvserAvveckladKurs": false,
84     "Benamning": "DD2520 Applied Cryptography",
85     "Gruppavgransningar": [],
86     "KursUID": "ab9c7c6b-d605-11e8-b094-9def723747ec",
87     "Kursinstansavgransningar": [],
88     "Kurstillfallesavgransningar": [],
89     "Medarbetartyp": "ATTESTANT",
90     "Modulavgransningar": [],
91     "Organisation": {
92         "Benamning": {
93             "sv": "EECS/Teoretisk datalogi",
94             "en": "EECS/Theoretical Computer Science"
95         },
96         "Kod": "JHT",
97         "UId": "638add54-dc41-11e8-8cc1-eaeeb71b497f"
98     },
99     "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
100    "RattighetenSaknarPraktiskMening": false,
101    "SenastAndradAv": "liniyo@kth.se",
102    "SenastSparad": "2026-01-30T08:32:27.749",
103    "Studentavgransningar": [],
104    "UId": "d4104230-fdad-11f0-9bee-4a6818304b91",
105    "Utbildningstypbenamning": {
106        "sv": "Kurs, avancerad niv\u00e5",
107        "en": "Course, Second-cycle"
108    }
109 },

```

```

110 {
111   "_resultatrattighet": "Kursrattighet",
112   "Anvandare": {
113     "Anvandarnamn": "user@domain.se",
114     "Efternamn": "Studentzadeh",
115     "Fornamn": "Student",
116     "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
117   },
118   "AviseraVidKlarForHelkurs": true,
119   "AvserAvveckladKurs": false,
120   "Benamning": "DA2215 Theory of Science and Scientific methods in Cybersecurity",
121   "Gruppavgransningar": [],
122   "KursUID": "b790ea69-5065-11ed-9bb3-15472a47482f",
123   "Kursinstansavgransningar": [],
124   "Kurstillfallesavgransningar": [],
125   "Medarbetartyp": "RAPPORTOR",
126   "Modulavgransningar": [],
127   "Organisation": {
128     "Benamning": {
129       "sv": "EECS/Teoretisk datalogi",
130       "en": "EECS/Theoretical Computer Science"
131     },
132     "Kod": "JHT",
133     "Uid": "638add54-dc41-11e8-8cc1-eaeeb71b497f"
134   },
135   "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
136   "RattighetenSaknarPraktiskMening": false,
137   "SenastAndradAv": "liniyo@kth.se",
138   "SenastSparad": "2026-01-30T08:35:47.133",
139   "Studentavgransningar": [],
140   "Uid": "4ae7d755-fdae-11f0-9bee-4a6818304b91",
141   "Utbildningstypbenamning": {
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143     "en": "Course, Second-cycle"
144   }
145 },
146 {
147   "_resultatrattighet": "Kursrattighet",
148   "Anvandare": {
149     "Anvandarnamn": "user@domain.se",
150     "Efternamn": "Studentzadeh",
151     "Fornamn": "Student",
152     "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
153   },
154   "AviseraVidKlarForHelkurs": false,
155   "AvserAvveckladKurs": false,
156   "Benamning": "DA2215 Theory of Science and Scientific methods in Cybersecurity",
157   "Gruppavgransningar": [],
158   "KursUID": "b790ea69-5065-11ed-9bb3-15472a47482f",
159   "Kursinstansavgransningar": [],
160   "Kurstillfallesavgransningar": [],

```



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161     "Medarbetartyp": "ATTESTANT",
162     "Modulavgransningar": [],
163     "Organisation": {
164         "Benamning": {
165             "sv": "EECS/Teoretisk datalogi",
166             "en": "EECS/Theoretical Computer Science"
167         },
168         "Kod": "JHT",
169         "Uid": "638add54-dc41-11e8-8cc1-eaeeb71b497f"
170     },
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172     "RattighetenSaknarPraktiskMening": false,
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174     "SenastSparad": "2026-01-30T08:35:47.19",
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176     "Uid": "4af089ea-fdae-11f0-9bee-4a6818304b91",
177     "Utbildningstypbenamning": {
178         "sv": "Kurs, avancerad niv\u00e5",
179         "en": "Course, Second-cycle"
180     }
181 },
182 {
183     "_resultatrattighet": "Kursrattighet",
184     "Anvandare": {
185         "Anvandarnamn": "user@domain.se",
186         "Efternamn": "Studentzadeh",
187         "Fornamn": "Student",
188         "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
189     },
190     "AviseraVidKlarForHelkurs": false,
191     "AvserAvveckladKurs": true,
192     "Benamning": "DD1315 Programming Techniques and Matlab",
193     "Gruppavgransningar": [],
194     "KursUID": "38ab2393-73d8-11e8-afa7-8e408e694e54",
195     "Kursinstansavgransningar": [],
196     "Kurstillfallesavgransningar": [],
197     "Medarbetartyp": "ATTESTANT",
198     "Modulavgransningar": [],
199     "Organisation": {
200         "Benamning": {
201             "sv": "EECS/Datavetenskap",
202             "en": "EECS/Computer Science"
203         },
204         "Kod": "JH",
205         "Uid": "2474f616-dc41-11e8-8cc1-eaeeb71b497f"
206     },
207     "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
208     "RattighetenSaknarPraktiskMening": false,
209     "SenastAndradAv": "nannah@kth.se",
210     "SenastSparad": "2020-09-24T13:46:48.089",
211     "Studentavgransningar": [],

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214         "sv": "Kurs, grundniv\u00e5",
215         "en": "Course, First-cycle"
216     }
217 },
218 {
219     "_resultatrattighet": "Kursrattighet",
220     "Anvandare": {
221         "Anvandarnamn": "user@domain.se",
222         "Efternamn": "Studentzadeh",
223         "Fornamn": "Student",
224         "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
225     },
226     "AviseraVidKlarForHelkurs": false,
227     "AvserAvveckladKurs": false,
228     "Benamning": "DD1301 Computer Introduction",
229     "Gruppavgransningar": [],
230     "KursUID": "385f74c0-73d8-11e8-afa7-8e408e694e54",
231     "Kursinstansavgransningar": [],
232     "Kurstillfallesavgransningar": [],
233     "Medarbetartyp": "RAPPORTOR",
234     "Modulavgransningar": [],
235     "Organisation": {
236         "Benamning": {
237             "sv": "CSC/Teoretisk datalogi",
238             "en": "CSC/Theoretical Computer Science"
239         },
240         "Kod": "DL",
241         "Uid": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6"
242     },
243     "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
244     "RattighetenSaknarPraktiskMening": false,
245     "SenastAndradAv": "nannah@kth.se",
246     "SenastSparad": "2020-09-24T13:47:46.853",
247     "Studentavgransningar": [],
248     "Uid": "c3ca862e-fe5b-11ea-a46d-46a9df314f55",
249     "Utbildningstypbenamning": {
250         "sv": "Kurs, grundniv\u00e5",
251         "en": "Course, First-cycle"
252     }
253 },
254 {
255     "_resultatrattighet": "Kursrattighet",
256     "Anvandare": {
257         "Anvandarnamn": "user@domain.se",
258         "Efternamn": "Studentzadeh",
259         "Fornamn": "Student",
260         "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
261     },
262     "AviseraVidKlarForHelkurs": false,

```

```

263     "AvserAvveckladKurs": false,
264     "Benamning": "DD1301 Computer Introduction",
265     "Gruppavgransningar": [],
266     "KursUID": "385f74c0-73d8-11e8-afa7-8e408e694e54",
267     "Kursinstansavgransningar": [],
268     "Kurstillfallesavgransningar": [],
269     "Medarbetartyp": "ATTESTANT",
270     "Modulavgransningar": [],
271     "Organisation": {
272       "Benamning": {
273         "sv": "CSC/Teoretisk datalogi",
274         "en": "CSC/Theoretical Computer Science"
275       },
276       "Kod": "DL",
277       "Uid": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6"
278     },
279     "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
280     "RattighetenSaknarPraktiskMening": false,
281     "SenastAndradAv": "suscar@kth.se",
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285     "Utbildningstypbenamning": {
286       "sv": "Kurs, grundniv\u00e5",
287       "en": "Course, First-cycle"
288     }
289   },
290   {
291     "_resultatrattighet": "Kursrattighet",
292     "Anvandare": {
293       "Anvandarnamn": "user@domain.se",
294       "Efternamn": "Studentzadeh",
295       "Fornamn": "Student",
296       "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
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298     "AviseraVidKlarForHelkurs": false,
299     "AvserAvveckladKurs": true,
300     "Benamning": "DD1315 Programming Techniques and Matlab",
301     "Gruppavgransningar": [],
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303     "Kursinstansavgransningar": [],
304     "Kurstillfallesavgransningar": [],
305     "Medarbetartyp": "ATTESTANT",
306     "Modulavgransningar": [],
307     "Organisation": {
308       "Benamning": {
309         "sv": "CSC/Teoretisk datalogi",
310         "en": "CSC/Theoretical Computer Science"
311       },
312       "Kod": "DL",
313       "Uid": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6"

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314     },
315     "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
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318     "SenastSparad": "2020-10-09T13:08:19.986",
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320     "UId": "bd39872d-0a1f-11eb-9d38-9773472c4c59",
321     "Utbildningstypbenamning": {
322       "sv": "Kurs, grundniv\u00e5",
323       "en": "Course, First-cycle"
324     }
325   },
326   {
327     "_resultatrattighet": "Kursrattighet",
328     "Anvandare": {
329       "Anvandarnamn": "user@domain.se",
330       "Efternamn": "Studentzadeh",
331       "Fornamn": "Student",
332       "UId": "21f4667a-e864-11ea-adbf-a14961264cf0"
333     },
334     "AviseraVidKlarForHelkurs": false,
335     "AvserAvveckladKurs": false,
336     "Benamning": "DD1310 Programming Techniques",
337     "Gruppavgransningar": [],
338     "KursUID": "386a70fa-73d8-11e8-afa7-8e408e694e54",
339     "Kursinstansavgransningar": [],
340     "Kurstillfallesavgransningar": [],
341     "Medarbetartyp": "RAPPORTOR",
342     "Modulavgransningar": [],
343     "Organisation": {
344       "Benamning": {
345         "sv": "CSC/Teoretisk datalogi",
346         "en": "CSC/Theoretical Computer Science"
347       },
348       "Kod": "DL",
349       "UId": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6"
350     },
351     "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
352     "RattighetenSaknarPraktiskMening": false,
353     "SenastAndradAv": "mbw@kth.se",
354     "SenastSparad": "2021-09-17T10:18:49.263",
355     "Studentavgransningar": [],
356     "UId": "e2b09bfd-178f-11ec-a4aa-32ead39744f5",
357     "Utbildningstypbenamning": {
358       "sv": "Kurs, grundniv\u00e5",
359       "en": "Course, First-cycle"
360     }
361   },
362   {
363     "_resultatrattighet": "Kursrattighet",
364     "Anvandare": {

```

```

365     "Anvandarnamn": "user@domain.se",
366     "Efternamn": "Studentzadeh",
367     "Fornamn": "Student",
368     "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
369 },
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371 "AvserAvveckladKurs": false,
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376 "Kurstillfallesavgransningar": [],
377 "Medarbetartyp": "RAPPORTOR",
378 "Modulavgransningar": [],
379 "Organisation": {
380     "Benamning": {
381         "sv": "EECS/Teoretisk datalogi",
382         "en": "EECS/Theoretical Computer Science"
383     },
384     "Kod": "JHT",
385     "Uid": "638add54-dc41-11e8-8cc1-eaeeb71b497f"
386 },
387 "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
388 "RattighetenSaknarPraktiskMening": false,
389 "SenastAndradAv": "tillman@kth.se",
390 "SenastSparad": "2026-01-29T11:33:53.108",
391 "Studentavgransningar": [],
392 "Uid": "01d47a07-fcfe-11f0-9f6f-d1cf7b894209",
393 "Utbildningstypbenamning": {
394     "sv": "Kurs, grundniv\u00e5",
395     "en": "Course, First-cycle"
396 }
397 },
398 {
399     "_resultatrattighet": "Kursrattighet",
400     "Anvandare": {
401         "Anvandarnamn": "user@domain.se",
402         "Efternamn": "Studentzadeh",
403         "Fornamn": "Student",
404         "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
405     },
406     "AviseraVidKlarForHelkurs": false,
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409     "Gruppavgransningar": [],
410     "KursUID": "70d5fdb9-2db7-11ec-bb06-8c8c04c8482a",
411     "Kursinstansavgransningar": [],
412     "Kurstillfallesavgransningar": [],
413     "Medarbetartyp": "RAPPORTOR",
414     "Modulavgransningar": [],
415     "Organisation": {

```

```

416     "Benamning": {
417         "sv": "EECS/Teoretisk datalogi",
418         "en": "EECS/Theoretical Computer Science"
419     },
420     "Kod": "JHT",
421     "Uid": "638add54-dc41-11e8-8cc1-eaeeb71b497f"
422 },
423 "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
424 "RattighetenSaknarPraktiskMening": false,
425 "SenastAndradAv": "tillman@kth.se",
426 "SenastSparad": "2026-01-29T11:38:36.126",
427 "Studentavgransningar": [],
428 "Uid": "aa8598a4-fcfe-11f0-9f6f-d1cf7b894209",
429 "Utbildningstypbenamning": {
430     "sv": "Kurs, grundniv\u00e5",
431     "en": "Course, First-cycle"
432 }
433 },
434 {
435     "_resultatrattighet": "Kursrattighet",
436     "Anvandare": {
437         "Anvandarnamn": "user@domain.se",
438         "Efternamn": "Studentzadeh",
439         "Fornamn": "Student",
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445     "Gruppavgransningar": [],
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447     "Kursinstansavgransningar": [],
448     "Kurstillfallesavgransningar": [],
449     "Medarbetartyp": "RAPPORTOR",
450     "Modulavgransningar": [],
451     "Organisation": {
452         "Benamning": {
453             "sv": "EECS/Datavetenskap",
454             "en": "EECS/Computer Science"
455         },
456         "Kod": "JH",
457         "Uid": "2474f616-dc41-11e8-8cc1-eaeeb71b497f"
458     },
459     "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
460     "RattighetenSaknarPraktiskMening": false,
461     "SenastAndradAv": "gusrud@kth.se",
462     "SenastSparad": "2020-09-25T10:47:53.563",
463     "Studentavgransningar": [],
464     "Uid": "cce6eb80-ff0b-11ea-a46d-46a9df314f55",
465     "Utbildningstypbenamning": {
466         "sv": "Kurs, grundniv\u00e5",

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467     "en": "Course, First-cycle"
468   }
469 },
470 {
471   "_resultatrattighet": "Kursrattighet",
472   "Anvandare": {
473     "Anvandarnamn": "user@domain.se",
474     "Efternamn": "Studentzadeh",
475     "Fornamn": "Student",
476     "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
477   },
478   "AviseraVidKlarForHelkurs": false,
479   "AvserAvveckladKurs": true,
480   "Benamning": "DD1315 Programming Techniques and Matlab",
481   "Gruppavgransningar": [],
482   "KursUID": "38ab2393-73d8-11e8-afa7-8e408e694e54",
483   "Kursinstansavgransningar": [],
484   "Kurstillfallesavgransningar": [],
485   "Medarbetartyp": "RAPPORTOR",
486   "Modulavgransningar": [],
487   "Organisation": {
488     "Benamning": {
489       "sv": "CSC/Teoretisk datalogi",
490       "en": "CSC/Theoretical Computer Science"
491     },
492     "Kod": "DL",
493     "Uid": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6"
494   },
495   "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
496   "RattighetenSaknarPraktiskMening": false,
497   "SenastAndradAv": "gusrud@kth.se",
498   "SenastSparad": "2020-09-25T10:48:22.722",
499   "Studentavgransningar": [],
500   "Uid": "de483a53-ff0b-11ea-a46d-46a9df314f55",
501   "Utbildningstypbenamning": {
502     "sv": "Kurs, grundniv\u00e5",
503     "en": "Course, First-cycle"
504   }
505 },
506 {
507   "_resultatrattighet": "Kursrattighet",
508   "Anvandare": {
509     "Anvandarnamn": "user@domain.se",
510     "Efternamn": "Studentzadeh",
511     "Fornamn": "Student",
512     "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
513   },
514   "AviseraVidKlarForHelkurs": false,
515   "AvserAvveckladKurs": false,
516   "Benamning": "DD1317 Programming Techniques",
517   "Gruppavgransningar": [],

```

```

518     "KursUID": "70d5fdb9-2db7-11ec-bb06-8c8c04c8482a",
519     "Kursinstansavgransningar": [],
520     "Kurstillfallesavgransningar": [],
521     "Medarbetartyp": "ATTESTANT",
522     "Modulavgransningar": [],
523     "Organisation": {
524         "Benamning": {
525             "sv": "EECS/Teoretisk datalogi",
526             "en": "EECS/Theoretical Computer Science"
527         },
528         "Kod": "JHT",
529         "Uid": "638add54-dc41-11e8-8cc1-eaeeb71b497f"
530     },
531     "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
532     "RattighetenSaknarPraktiskMening": false,
533     "SenastAndradAv": "tillman@kth.se",
534     "SenastSparad": "2026-01-29T11:38:36.16",
535     "Studentavgransningar": [],
536     "Uid": "aa8ac8c5-fcfe-11f0-9f6f-d1cf7b894209",
537     "Utbildningstypbenamning": {
538         "sv": "Kurs, grundniv\u00e5",
539         "en": "Course, First-cycle"
540     }
541 },
542 {
543     "_resultatrattighet": "Kursrattighet",
544     "Anvandare": {
545         "Anvandarnamn": "user@domain.se",
546         "Efternamn": "Studentzadeh",
547         "Fornamn": "Student",
548         "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
549     },
550     "AviseraVidKlarForHelkurs": true,
551     "AvserAvveckladKurs": false,
552     "Benamning": "DD2520 Applied Cryptography",
553     "Gruppavgransningar": [],
554     "KursUID": "ab9c7c6b-d605-11e8-b094-9def723747ec",
555     "Kursinstansavgransningar": [],
556     "Kurstillfallesavgransningar": [],
557     "Medarbetartyp": "RAPPORTOR",
558     "Modulavgransningar": [],
559     "Organisation": {
560         "Benamning": {
561             "sv": "EECS/Teoretisk datalogi",
562             "en": "EECS/Theoretical Computer Science"
563         },
564         "Kod": "JHT",
565         "Uid": "638add54-dc41-11e8-8cc1-eaeeb71b497f"
566     },
567     "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
568     "RattighetenSaknarPraktiskMening": false,

```



```

569     "SenastAndradAv": "liniyo@kth.se",
570     "SenastSparad": "2026-01-30T08:32:27.702",
571     "Studentavgransningar": [],
572     "Uid": "d409163f-fdad-11f0-9bee-4a6818304b91",
573     "Utbildningstypbenamning": {
574         "sv": "Kurs, avancerad niv\u00e5",
575         "en": "Course, Second-cycle"
576     }
577 }
578 ]

```

20.2 organization_info_JSON

We can get information about the organization.

```

458a <LadokSession data methods 126b>+=
    # added by GQMJr
    def organization_info_JSON(self):
        """
        Returns a dictionary of organization information for the entire institution
        of the logged in user.
        """
        r = self.session.get(
            url=self.base_gui_proxy_url + '/resultat/internal/organisation/utanlankar',
            headers=self.headers)
        if r.status_code == requests.codes.ok:
            return r.json()
        raise LadokAPIError(f"failed to get organization info: {r.text}")

```

Let's add a test. This should return a dictionary.

```

458b <test functions 126a>+=
    def test_organization_info_JSON():
        r = ladok.organization_info_JSON()
        assert type(r) == dict

```

This code is used in chunk 121.

The output looks like this:

```

1  {
2    "Organisation": [
3      {
4        "Benamning": {
5          "sv": "KTH Universitetsf\u00f6rvaltning/SI",
6          "en": "KTH Student's Office/SI"
7        },
8        "Kod": "100",
9        "Organisationsenhetstyp": "INSTITUTION",
10       "Uid": "e83d5892-73d6-11e8-8c58-f9aa7f7e4fb6"
11     },
12     {
13       "Benamning": {
14         "sv": "KTH Arkitekturskolan",

```

```

15     "en": "KTH School of Architecture"
16 },
17 "Kod": "110",
18 "Organisationsenhetstyp": "INSTITUTION",
19 "Uid": "e842afc9-73d6-11e8-8c58-f9aa7f7e4fb6"
20 },
21 {
22   "Benamning": {
23     "sv": "KTH Mark och vattenteknik",
24     "en": "KTH Land & Water Resources Engineering"
25   },
26   "Kod": "120",
27   "Organisationsenhetstyp": "INSTITUTION",
28   "Uid": "e8482e10-73d6-11e8-8c58-f9aa7f7e4fb6"
29 },
30 {
31   "Benamning": {
32     "sv": "KTH Byggekonstruktion",
33     "en": "KTH Structural Engineering"
34   },
35   "Kod": "130",
36   "Organisationsenhetstyp": "INSTITUTION",
37   "Uid": "e84dac57-73d6-11e8-8c58-f9aa7f7e4fb6"
38 },
39 {
40   "Benamning": {
41     "sv": "KTH Bygghälsan",
42     "en": "KTH Civil and Architectural Engineering"
43   },
44   "Kod": "140",
45   "Organisationsenhetstyp": "INSTITUTION",
46   "Uid": "e857705e-73d6-11e8-8c58-f9aa7f7e4fb6"
47 },
48 {
49   "Benamning": {
50     "sv": "Inst f byggv.sk., anv ej - nu inst 140",
51     "en": "- No translation available -"
52   },
53   "Kod": "1401",
54   "Organisationsenhetstyp": "INSTITUTION",
55   "Uid": "e85ceea5-73d6-11e8-8c58-f9aa7f7e4fb6"
56 },
57 {
58   "Benamning": {
59     "sv": "KTH Geodesi o fotogrammetri",
60     "en": "KTH Geodesy and Photogrammetry"
61   },
62   "Kod": "150",
63   "Organisationsenhetstyp": "INSTITUTION",
64   "Uid": "e8637e5c-73d6-11e8-8c58-f9aa7f7e4fb6"
65 },

```

```

66     {
67         "Benamning": {
68             "sv": "KTH Fastigheter och byggande",
69             "en": "KTH Real Estate & Construction Managem"
70         },
71         "Kod": "160",
72         "Organisationsenhetstyp": "INSTITUTION",
73         "UId": "e8688773-73d6-11e8-8c58-f9aa7f7e4fb6"
74     },
75     {
76         "Benamning": {
77             "sv": "KTH Infrastruktur",
78             "en": "KTH Infrastructure"
79         },
80         "Kod": "165",
81         "Organisationsenhetstyp": "INSTITUTION",
82         "UId": "e86d908a-73d6-11e8-8c58-f9aa7f7e4fb6"
83     },
84     {
85         "Benamning": {
86             "sv": "Milj\u00f6 och naturresursinformation",
87             "en": "-- No translation available --"
88         },
89         "Kod": "170",
90         "Organisationsenhetstyp": "INSTITUTION",
91         "UId": "e8730dd1-73d6-11e8-8c58-f9aa7f7e4fb6"
92     },
93     {
94         "Benamning": {
95             "sv": "KTH Byggd milj\u00f6",
96             "en": "KTH Built Environment"
97         },
98         "Kod": "180",
99         "Organisationsenhetstyp": "INSTITUTION",
100        "UId": "e875f408-73d6-11e8-8c58-f9aa7f7e4fb6"
101    },
102    {
103        "Benamning": {
104            "sv": "KTH Universitetsf\u00f6rvaltning/A",
105            "en": "KTH Student's Office/A"
106        },
107        "Kod": "190",
108        "Organisationsenhetstyp": "INSTITUTION",
109        "UId": "e879014f-73d6-11e8-8c58-f9aa7f7e4fb6"
110    },
111    {
112        "Benamning": {
113            "sv": "KTH Universitetsf\u00f6rvaltning/DEF",
114            "en": "KTH Student's Office/DEF"
115        },
116        "Kod": "200",

```

```

117     "Organisationsenhetstyp": "INSTITUTION",
118     "Uid": "e87c83c6-73d6-11e8-8c58-f9aa7f7e4fb6"
119 },
120 {
121     "Benamning": {
122         "sv": "KTH Alfv\u00e9nlaboratoriet",
123         "en": "KTH Alfv\u00e9n Laboratory"
124     },
125     "Kod": "210",
126     "Organisationsenhetstyp": "INSTITUTION",
127     "Uid": "e880063d-73d6-11e8-8c58-f9aa7f7e4fb6"
128 },
129 {
130     "Benamning": {
131         "sv": "Alfv\u00e9nlaboratoriet, anv ej - nu inst 210",
132         "en": "Dept. of Alfv\u00e9n Laboratory"
133     },
134     "Kod": "2101",
135     "Organisationsenhetstyp": "INSTITUTION",
136     "Uid": "e883d6d4-73d6-11e8-8c58-f9aa7f7e4fb6"
137 },
138 {
139     "Benamning": {
140         "sv": "KTH Mikroelektronik & informat.teknik",
141         "en": "KTH Microelectronics & Inform.Techn"
142     },
143     "Kod": "220",
144     "Organisationsenhetstyp": "INSTITUTION",
145     "Uid": "e8870b2b-73d6-11e8-8c58-f9aa7f7e4fb6"
146 },
147 {
148     "Benamning": {
149         "sv": "KTH Elektrotekniska system",
150         "en": "KTH Electrical Engineering"
151     },
152     "Kod": "230",
153     "Organisationsenhetstyp": "INSTITUTION",
154     "Uid": "e889f162-73d6-11e8-8c58-f9aa7f7e4fb6"
155 },
156 {
157     "Benamning": {
158         "sv": "KTH Numerisk analys o datalogi",
159         "en": "KTH Num Analysis & Computing Science"
160     },
161     "Kod": "240",
162     "Organisationsenhetstyp": "INSTITUTION",
163     "Uid": "e88cd799-73d6-11e8-8c58-f9aa7f7e4fb6"
164 },
165 {
166     "Benamning": {
167         "sv": "KTH Signaler, sensorer och system",

```

```

168         "en": "KTH Signals, Sensors and System"
169     },
170     "Kod": "250",
171     "Organisationsenhetstyp": "INSTITUTION",
172     "Uid": "e88f6fb0-73d6-11e8-8c58-f9aa7f7e4fb6"
173 },
174 {
175     "Benamning": {
176         "sv": "Forskarskola - S3",
177         "en": "Signals, Sensors and Systems"
178     },
179     "Kod": "2502",
180     "Organisationsenhetstyp": "INSTITUTION",
181     "Uid": "e89255e7-73d6-11e8-8c58-f9aa7f7e4fb6"
182 },
183 {
184     "Benamning": {
185         "sv": "KTH Tal, musik och h\u00f6rsel",
186         "en": "KTH Speech, Music and Hearing"
187     },
188     "Kod": "260",
189     "Organisationsenhetstyp": "INSTITUTION",
190     "Uid": "e895632e-73d6-11e8-8c58-f9aa7f7e4fb6"
191 },
192 {
193     "Benamning": {
194         "sv": "KTH Teoretisk elektroteknik",
195         "en": "KTH Electromagnetic Theory"
196     },
197     "Kod": "280",
198     "Organisationsenhetstyp": "INSTITUTION",
199     "Uid": "e8982255-73d6-11e8-8c58-f9aa7f7e4fb6"
200 },
201 {
202     "Benamning": {
203         "sv": "KTH Data- och systemvetenskap",
204         "en": "KTH Computer and Systems Sciences"
205     },
206     "Kod": "290",
207     "Organisationsenhetstyp": "INSTITUTION",
208     "Uid": "e89ae17c-73d6-11e8-8c58-f9aa7f7e4fb6"
209 },
210 {
211     "Benamning": {
212         "sv": "KTH Universitetsf\u00f6rvaltning/KKB",
213         "en": "KTH Student's Office/KKB"
214     },
215     "Kod": "300",
216     "Organisationsenhetstyp": "INSTITUTION",
217     "Uid": "e89dc7b3-73d6-11e8-8c58-f9aa7f7e4fb6"
218 },

```

```
219     {
220         "Benamning": {
221             "sv": "KTH Bioteknologi",
222             "en": "KTH Biotechnology"
223         },
224         "Kod": "310",
225         "Organisationsenhetstyp": "INSTITUTION",
226         "Uid": "e8a1231a-73d6-11e8-8c58-f9aa7f7e4fb6"
227     },
228     {
229         "Benamning": {
230             "sv": "KTH Kemi",
231             "en": "KTH Chemistry"
232         },
233         "Kod": "320",
234         "Organisationsenhetstyp": "INSTITUTION",
235         "Uid": "e8a3e241-73d6-11e8-8c58-f9aa7f7e4fb6"
236     },
237     {
238         "Benamning": {
239             "sv": "KTH Kemiteknik",
240             "en": "KTH Chemical Eng. and Technology"
241         },
242         "Kod": "330",
243         "Organisationsenhetstyp": "INSTITUTION",
244         "Uid": "e8a6c878-73d6-11e8-8c58-f9aa7f7e4fb6"
245     },
246     {
247         "Benamning": {
248             "sv": "KTH Fiber- och polymerteknologi",
249             "en": "KTH Fiber and Polymer Technology"
250         },
251         "Kod": "350",
252         "Organisationsenhetstyp": "INSTITUTION",
253         "Uid": "e8a9d5bf-73d6-11e8-8c58-f9aa7f7e4fb6"
254     },
255     {
256         "Benamning": {
257             "sv": "KTH Universitetsf\u00f6rvaltning/MMT",
258             "en": "KTH Student's Office/MMT"
259         },
260         "Kod": "400",
261         "Organisationsenhetstyp": "INSTITUTION",
262         "Uid": "e8ad0a16-73d6-11e8-8c58-f9aa7f7e4fb6"
263     },
264     {
265         "Benamning": {
266             "sv": "KTH Energiteknik",
267             "en": "KTH Energy Technology"
268         },
269         "Kod": "410",
```

```
270     "Organisationsenhetstyp": "INSTITUTION",
271     "Uid": "e8aff04d-73d6-11e8-8c58-f9aa7f7e4fb6"
272 },
273 {
274     "Benamning": {
275         "sv": "KTH Farkost och flyg",
276         "en": "KTH Aeronautical and Vehicle Eng."
277     },
278     "Kod": "420",
279     "Organisationsenhetstyp": "INSTITUTION",
280     "Uid": "e8b2af74-73d6-11e8-8c58-f9aa7f7e4fb6"
281 },
282 {
283     "Benamning": {
284         "sv": "KTH H\u00e5llfasthetsl\u00e4ra",
285         "en": "KTH Solid Mechanics"
286     },
287     "Kod": "430",
288     "Organisationsenhetstyp": "INSTITUTION",
289     "Uid": "e8b5207b-73d6-11e8-8c58-f9aa7f7e4fb6"
290 },
291 {
292     "Benamning": {
293         "sv": "KTH Industriell ekonomi och organisation",
294         "en": "KTH Industrial Economics & Management"
295     },
296     "Kod": "440",
297     "Organisationsenhetstyp": "INSTITUTION",
298     "Uid": "e8b7b892-73d6-11e8-8c58-f9aa7f7e4fb6"
299 },
300 {
301     "Benamning": {
302         "sv": "KTH Maskinkonstruktion",
303         "en": "KTH Machine Design"
304     },
305     "Kod": "450",
306     "Organisationsenhetstyp": "INSTITUTION",
307     "Uid": "e8ba50a9-73d6-11e8-8c58-f9aa7f7e4fb6"
308 },
309 {
310     "Benamning": {
311         "sv": "KTH Industriell produktion",
312         "en": "KTH Production Engineering"
313     },
314     "Kod": "460",
315     "Organisationsenhetstyp": "INSTITUTION",
316     "Uid": "e8bd0fd0-73d6-11e8-8c58-f9aa7f7e4fb6"
317 },
318 {
319     "Benamning": {
320         "sv": "Metallernas gjutning",
```

```

321     "en": "Casting of Metals"
322 },
323 "Kod": "466",
324 "Organisationsenhetstyp": "INSTITUTION",
325 "Uid": "e8bfcef7-73d6-11e8-8c58-f9aa7f7e4fb6"
326 },
327 {
328   "Benamning": {
329     "sv": "KTH Materialvetenskap",
330     "en": "KTH Materials Science and Engineering"
331   },
332   "Kod": "470",
333   "Organisationsenhetstyp": "INSTITUTION",
334   "Uid": "e8c2dc3e-73d6-11e8-8c58-f9aa7f7e4fb6"
335 },
336 {
337   "Benamning": {
338     "sv": "KTH Metallurgi",
339     "en": "KTH Metallurgy"
340   },
341   "Kod": "475",
342   "Organisationsenhetstyp": "INSTITUTION",
343   "Uid": "e8c5e985-73d6-11e8-8c58-f9aa7f7e4fb6"
344 },
345 {
346   "Benamning": {
347     "sv": "KTH Milj\u00f6skydd och arbetsvetenskap",
348     "en": "KTH Environmental Tech. & Work Science"
349   },
350   "Kod": "480",
351   "Organisationsenhetstyp": "INSTITUTION",
352   "Uid": "e8c8cfbc-73d6-11e8-8c58-f9aa7f7e4fb6"
353 },
354 {
355   "Benamning": {
356     "sv": "KTH Industriell produktion",
357     "en": "KTH Production Engineering"
358   },
359   "Kod": "490",
360   "Organisationsenhetstyp": "INSTITUTION",
361   "Uid": "e8cbb5f3-73d6-11e8-8c58-f9aa7f7e4fb6"
362 },
363 {
364   "Benamning": {
365     "sv": "Metallernas bearbetning",
366     "en": "- No translation available -"
367   },
368   "Kod": "495",
369   "Organisationsenhetstyp": "INSTITUTION",
370   "Uid": "e8ce9c2a-73d6-11e8-8c58-f9aa7f7e4fb6"
371 },

```



```

372     {
373         "Benamning": {
374             "sv": "KTH Universitetsf\u00f6rvaltning/DEF",
375             "en": "KTH Student's Office/DEF"
376         },
377         "Kod": "500",
378         "Organisationsenhetstyp": "INSTITUTION",
379         "Uid": "e8d15b51-73d6-11e8-8c58-f9aa7f7e4fb6"
380     },
381     {
382         "Benamning": {
383             "sv": "KTH Fysik",
384             "en": "KTH Physics"
385         },
386         "Kod": "510",
387         "Organisationsenhetstyp": "INSTITUTION",
388         "Uid": "e8d3f368-73d6-11e8-8c58-f9aa7f7e4fb6"
389     },
390     {
391         "Benamning": {
392             "sv": "KTH Matematik",
393             "en": "KTH Mathematics"
394         },
395         "Kod": "520",
396         "Organisationsenhetstyp": "INSTITUTION",
397         "Uid": "e8d6b28f-73d6-11e8-8c58-f9aa7f7e4fb6"
398     },
399     {
400         "Benamning": {
401             "sv": "KTH Mekanik",
402             "en": "KTH Mechanics"
403         },
404         "Kod": "530",
405         "Organisationsenhetstyp": "INSTITUTION",
406         "Uid": "e8d9e6e6-73d6-11e8-8c58-f9aa7f7e4fb6"
407     },
408     {
409         "Benamning": {
410             "sv": "Ingenj\u00f6rsskolan",
411             "en": "College of Engineering"
412         },
413         "Kod": "600",
414         "Organisationsenhetstyp": "INSTITUTION",
415         "Uid": "e8ddb77d-73d6-11e8-8c58-f9aa7f7e4fb6"
416     },
417     {
418         "Benamning": {
419             "sv": "KTH Till\u00e4mpad IT",
420             "en": "KTH Applied Information Technology"
421         },
422         "Kod": "620",

```

```

423     "Organisationsenhetstyp": "INSTITUTION",
424     "Uid": "e8e22354-73d6-11e8-8c58-f9aa7f7e4fb6"
425 },
426 {
427     "Benamning": {
428         "sv": "Utbildn.enh. i Skrubba",
429         "en": "College of Engineering"
430     },
431     "Kod": "630",
432     "Organisationsenhetstyp": "INSTITUTION",
433     "Uid": "e8e4bb6b-73d6-11e8-8c58-f9aa7f7e4fb6"
434 },
435 {
436     "Benamning": {
437         "sv": "KTH Kemiteknik",
438         "en": "KTH Chemical Engineering and Technology"
439     },
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4207         "Benamning": {
4208             "sv": "Universitetsf\u00f6rvaltningen/IRO - Internationella relationer",
4209             "en": "University Administration"
4210         },
4211         "Kod": "VDK",
4212         "Organisationsenhetstyp": "INSTITUTION",
4213         "UId": "ec853b54-73d6-11e8-8c58-f9aa7f7e4fb6"
4214     },
4215     {
4216         "Benamning": {
4217             "sv": "KTH/Universitetsf\u00f6rvaltningen/Lokalserviceavdelningen",
4218             "en": "KTH/University Administration"
4219         },
4220         "Kod": "VDO",
4221         "Organisationsenhetstyp": "INSTITUTION",
4222         "UId": "ec895a0b-73d6-11e8-8c58-f9aa7f7e4fb6"
4223     },
4224     {
4225         "Benamning": {
4226             "sv": "Universitetsf\u00f6rvaltningen/IT-enheten",
4227             "en": "University Administration"
4228         },
4229         "Kod": "VDP",
4230         "Organisationsenhetstyp": "INSTITUTION",
4231         "UId": "ec8c1932-73d6-11e8-8c58-f9aa7f7e4fb6"
4232     },
4233     {
4234         "Benamning": {
4235             "sv": "Universitetsf\u00f6rvaltningen/KTH N\u00e4ringslivssamverkan",
4236             "en": "- No translation available -"
4237         },
4238         "Kod": "VDU",
4239         "Organisationsenhetstyp": "INSTITUTION",
4240         "UId": "ec8f4d89-73d6-11e8-8c58-f9aa7f7e4fb6"
4241     },
4242     {
4243         "Benamning": {
4244             "sv": "KTH/Universitetsf\u00f6rvaltningen/AUA",
4245             "en": "KTH University Administration"
4246         },
4247         "Kod": "VDV",

```

```

4248     "Organisationsenhetstyp": "INSTITUTION",
4249     "Uid": "ec6cd11c-73d6-11e8-8c58-f9aa7f7e4fb6"
4250 },
4251 {
4252     "Benamning": {
4253         "sv": "KTH/Universitetsf\u00f6rvaltningen/AUA/Antagningsgruppen",
4254         "en": "KTH Admissions Office"
4255     },
4256     "Kod": "VDVA",
4257     "Organisationsenhetstyp": "INSTITUTION",
4258     "Uid": "ec92a8f0-73d6-11e8-8c58-f9aa7f7e4fb6"
4259 },
4260 {
4261     "Benamning": {
4262         "sv": "KTH/Universitetsf\u00f6rvaltningen/AUA/Examensgruppen",
4263         "en": "KTH Degree Administration Office"
4264     },
4265     "Kod": "VDVB",
4266     "Organisationsenhetstyp": "INSTITUTION",
4267     "Uid": "ec95b637-73d6-11e8-8c58-f9aa7f7e4fb6"
4268 },
4269 {
4270     "Benamning": {
4271         "sv": "KTH/Universitetsf\u00f6rvaltningen/AUA/VoS",
4272         "en": "KTH University Administration"
4273     },
4274     "Kod": "VDVC",
4275     "Organisationsenhetstyp": "INSTITUTION",
4276     "Uid": "ec99119e-73d6-11e8-8c58-f9aa7f7e4fb6"
4277 }
4278 ]
4279 }

```

20.3 larosatesinformation_JSON

```

542a <LadokSession data methods 126b> +=
    # added by GQMJr
    def larosatesinformation_JSON(self):
        """
        Returns a dictionary of the university or college information.
        """
        r = self.session.get(
            url=self.base_gui_proxy_url +
            '/kataloginformation/internal/grunddata/larosatesinformation',
            headers=self.headers).json()
        return r

    Let's add a test. This should return a dictionary.

542b <test functions 126a> +=
    def test_larosatesinformation_JSON():

```

```
r = ladok.larosatesinformation_JSON()
assert type(r) == dict
```

This code is used in chunk 121.

The output looks like this:

```
1 {
2   "Larosatesinformation": [
3     {
4       "Benamning": {
5         "sv": "Kungliga Tekniska h\u00f6gskolan",
6         "en": "KTH Royal Institute of Technology"
7       },
8       "Beskrivning": {},
9       "Dolt": false,
10      "ExtraAttribut": [],
11      "Giltighetsperiod": {},
12      "ID": "29",
13      "Kod": "KTH",
14      "LankTillWebbplats": {
15        "Url": "https://www.kth.se/"
16      },
17      "LankTillWebbplatsEngelskSida": {
18        "Url": "https://www.kth.se/en"
19      },
20      "LarosateID": 29,
21      "OrtID": 18,
22      "Postadress": {
23        "Postnummer": "12345",
24        "Postort": "Byn"
25      },
26      "Telefonnummer": "0701234567"
27    }
28  ]
29 }
```

20.4 undervisningssprak_JSON

```
543 <LadokSession data methods 126b>+=
# added by GQMJr
def undervisningssprak_JSON(self):
    """
    Returns a dictionary of teaching languages.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/undervisningssprak',
        headers=self.headers).json()
    return r
```

Let's add a test. This should return a dictionary.

```
544 <test functions 126a>+=
def test_undervisningssprak_JSON():
    r = ladok.undervisningssprak_JSON()
    assert type(r) == dict
```

This code is used in chunk 121.

The output looks like this:

```
1 {
2   "Undervisningssprak": [
3     {
4       "Benamning": {
5         "sv": "Ryska",
6         "en": "Russian"
7       },
8       "Beskrivning": {},
9       "Dolt": true,
10      "Giltighetsperiod": {},
11      "ID": "4",
12      "Kod": "RUS",
13      "LarosateID": -1
14    },
15    {
16      "Benamning": {
17        "sv": "Spanska",
18        "en": "Spanish"
19      },
20      "Beskrivning": {},
21      "Dolt": true,
22      "Giltighetsperiod": {},
23      "ID": "3",
24      "Kod": "SPA",
25      "LarosateID": -1
26    },
27    {
28      "Benamning": {
29        "sv": "Danska",
30        "en": "Danish"
31      },
32      "Beskrivning": {},
33      "Dolt": true,
34      "Giltighetsperiod": {},
35      "ID": "109804",
36      "Kod": "DAN",
37      "LarosateID": -1
38    },
39    {
40      "Benamning": {
41        "sv": "Italienska",
42        "en": "Italian"
43      },
```

```

44     "Beskrivning": {},
45     "Dolt": true,
46     "Giltighetsperiod": {},
47     "ID": "109806",
48     "Kod": "ITA",
49     "LarosateID": -1
50 },
51 {
52     "Benamning": {
53         "sv": "Norska",
54         "en": "Norwegian"
55     },
56     "Beskrivning": {},
57     "Dolt": true,
58     "Giltighetsperiod": {},
59     "ID": "109808",
60     "Kod": "NOR",
61     "LarosateID": -1
62 },
63 {
64     "Benamning": {
65         "sv": "Franska",
66         "en": "French"
67     },
68     "Beskrivning": {},
69     "Dolt": true,
70     "Giltighetsperiod": {},
71     "ID": "109810",
72     "Kod": "FRE",
73     "LarosateID": -1
74 },
75 {
76     "Benamning": {
77         "sv": "Arabiska",
78         "en": "Arabic"
79     },
80     "Beskrivning": {},
81     "Dolt": true,
82     "Giltighetsperiod": {},
83     "ID": "111032",
84     "Kod": "ARA",
85     "LarosateID": -1
86 },
87 {
88     "Benamning": {
89         "sv": "Kurdiska",
90         "en": "Kurdish"
91     },
92     "Beskrivning": {},
93     "Dolt": true,
94     "Giltighetsperiod": {},

```



```
95     "ID": "150757",
96     "Kod": "KUR",
97     "LarosateID": -1
98 },
99 {
100     "Benamning": {
101         "sv": "Turkiska",
102         "en": "Turkish"
103     },
104     "Beskrivning": {},
105     "Dolt": true,
106     "Giltighetsperiod": {},
107     "ID": "150759",
108     "Kod": "TUR",
109     "LarosateID": -1
110 },
111 {
112     "Benamning": {
113         "sv": "Isl\u00e4ndska",
114         "en": "Icelandic"
115     },
116     "Beskrivning": {},
117     "Dolt": true,
118     "Giltighetsperiod": {},
119     "ID": "151538",
120     "Kod": "ISL",
121     "LarosateID": -1
122 },
123 {
124     "Benamning": {
125         "sv": "Samiska",
126         "en": "Sami"
127     },
128     "Beskrivning": {},
129     "Dolt": true,
130     "Giltighetsperiod": {},
131     "ID": "151968",
132     "Kod": "SMI",
133     "LarosateID": -1
134 },
135 {
136     "Benamning": {
137         "sv": "Rum\u00e4nska",
138         "en": "Romanian"
139     },
140     "Beskrivning": {},
141     "Dolt": true,
142     "Giltighetsperiod": {},
143     "ID": "159549",
144     "Kod": "RUM",
145     "LarosateID": -1
```

```

146     },
147     {
148         "Benamning": {
149             "sv": "Grekiska (modern)",
150             "en": "Greek (modern)"
151         },
152         "Beskrivning": {},
153         "Dolt": true,
154         "Giltighetsperiod": {},
155         "ID": "160825",
156         "Kod": "ELL",
157         "LarosateID": -1
158     },
159     {
160         "Benamning": {
161             "sv": "Tjeckiska",
162             "en": "Czech"
163         },
164         "Beskrivning": {},
165         "Dolt": true,
166         "Giltighetsperiod": {},
167         "ID": "161671",
168         "Kod": "CES",
169         "LarosateID": -1
170     },
171     {
172         "Benamning": {
173             "sv": "Litauiska",
174             "en": "Lithuanian"
175         },
176         "Beskrivning": {},
177         "Dolt": true,
178         "Giltighetsperiod": {},
179         "ID": "161673",
180         "Kod": "LIT",
181         "LarosateID": -1
182     },
183     {
184         "Benamning": {
185             "sv": "Engelska",
186             "en": "English"
187         },
188         "Beskrivning": {},
189         "Dolt": false,
190         "Giltighetsperiod": {},
191         "ID": "2",
192         "Kod": "ENG",
193         "LarosateID": -1
194     },
195     {
196         "Benamning": {

```

```
197         "sv": "Teckenspr\u00e5k",
198         "en": "Sign Language"
199     },
200     "Beskrivning": {},
201     "Dolt": true,
202     "Giltighetsperiod": {},
203     "ID": "5",
204     "Kod": "SGN",
205     "LarosateID": -1
206 },
207 {
208     "Benamning": {
209         "sv": "Svenska",
210         "en": "Swedish"
211     },
212     "Beskrivning": {},
213     "Dolt": false,
214     "Giltighetsperiod": {},
215     "ID": "1",
216     "Kod": "SWE",
217     "LarosateID": -1
218 },
219 {
220     "Benamning": {
221         "sv": "Finska",
222         "en": "Finnish"
223     },
224     "Beskrivning": {},
225     "Dolt": true,
226     "Giltighetsperiod": {},
227     "ID": "109805",
228     "Kod": "FIN",
229     "LarosateID": -1
230 },
231 {
232     "Benamning": {
233         "sv": "Japanska",
234         "en": "Japanese"
235     },
236     "Beskrivning": {},
237     "Dolt": true,
238     "Giltighetsperiod": {},
239     "ID": "109807",
240     "Kod": "JPN",
241     "LarosateID": -1
242 },
243 {
244     "Benamning": {
245         "sv": "Portugisiska",
246         "en": "Portugese"
247     },
```

```

248     "Beskrivning": {},
249     "Dolt": true,
250     "Giltighetsperiod": {},
251     "ID": "109809",
252     "Kod": "POR",
253     "LarosateID": -1
254 },
255 {
256     "Benamning": {
257         "sv": "Tyska",
258         "en": "German"
259     },
260     "Beskrivning": {},
261     "Dolt": true,
262     "Giltighetsperiod": {},
263     "ID": "109811",
264     "Kod": "GER",
265     "LarosateID": -1
266 },
267 {
268     "Benamning": {
269         "sv": "Kinesiska",
270         "en": "Chinese"
271     },
272     "Beskrivning": {},
273     "Dolt": true,
274     "Giltighetsperiod": {},
275     "ID": "111033",
276     "Kod": "CHI",
277     "LarosateID": -1
278 },
279 {
280     "Benamning": {
281         "sv": "Flerspr\u00e5kig undervisning",
282         "en": "Multiple languages"
283     },
284     "Beskrivning": {},
285     "Dolt": true,
286     "Giltighetsperiod": {},
287     "ID": "150758",
288     "Kod": "MUL",
289     "LarosateID": -1
290 },
291 {
292     "Benamning": {
293         "sv": "Persiska",
294         "en": "Persian"
295     },
296     "Beskrivning": {},
297     "Dolt": true,
298     "Giltighetsperiod": {},

```

```
299     "ID": "150907",
300     "Kod": "PER",
301     "LarosateID": -1
302 },
303 {
304     "Benamning": {
305         "sv": "Me\u00e4nkieli",
306         "en": "Me\u00e4nkieli"
307     },
308     "Beskrivning": {},
309     "Dolt": true,
310     "Giltighetsperiod": {},
311     "ID": "151967",
312     "Kod": "FIT",
313     "LarosateID": -1
314 },
315 {
316     "Benamning": {
317         "sv": "Polska",
318         "en": "Polish"
319     },
320     "Beskrivning": {},
321     "Dolt": true,
322     "Giltighetsperiod": {},
323     "ID": "152516",
324     "Kod": "POL",
325     "LarosateID": -1
326 },
327 {
328     "Benamning": {
329         "sv": "Jiddisch",
330         "en": "Yiddish"
331     },
332     "Beskrivning": {},
333     "Dolt": true,
334     "Giltighetsperiod": {},
335     "ID": "160526",
336     "Kod": "YID",
337     "LarosateID": -1
338 },
339 {
340     "Benamning": {
341         "sv": "Nederl\u00e4ndska",
342         "en": "Dutch"
343     },
344     "Beskrivning": {},
345     "Dolt": true,
346     "Giltighetsperiod": {},
347     "ID": "161660",
348     "Kod": "NLD",
349     "LarosateID": -1
```

```

350     },
351     {
352         "Benamning": {
353             "sv": "Lettiska",
354             "en": "Latvian"
355         },
356         "Beskrivning": {},
357         "Dolt": true,
358         "Giltighetsperiod": {},
359         "ID": "161672",
360         "Kod": "LAT",
361         "LarosateID": -1
362     },
363     {
364         "Benamning": {
365             "sv": "Ukrainska",
366             "en": "Ukrainian"
367         },
368         "Beskrivning": {},
369         "Dolt": true,
370         "Giltighetsperiod": {},
371         "ID": "161674",
372         "Kod": "UKR",
373         "LarosateID": -1
374     }
375 ]
376 }

```

20.5 i18n_translation_JSON

```

551a <LadokSession data methods 126b>+=
    # added by GQMJr
    def i18n_translation_JSON(self, lang = 'sv'):
        """
        Returns a dictionary of i18n translations used in Ladok3.
        """
        r = self.session.get(
            url=self.base_gui_proxy_url +
            '/kataloginformation/internal/i18n/oversattningar/sprakkod/' + lang,
            headers=self.headers).json()
        return r

```

Let's add a test. This should return a dictionary.

```

551b <test functions 126a>+=
    def test_i18n_translation_JSON():
        r = ladok.i18n_translation_JSON()
        assert type(r) == dict

```

This code is used in chunk 121.

The output looks like this:

```

1  {
2    "Oversattningar": [
3      {
4        "I18nNyckel": "commons.fel.detaljkod.utbildningsinformationsstruktur",
5        "Text": "Struktur"
6      },
7      {
8        "I18nNyckel": "systemaktivitet.bevakning.lasa",
9        "Text": "Bevakning: L\u00e4s grundinformation"
10     },
11     {
12       "I18nNyckel": "studentarende.besluta",
13       "Text": "Besluta och avsluta"
14     },
15     {
16       "I18nNyckel": "kataloginformation.grunddatakategori.lan.beskrivning",
17       "Text": "Regionalt f\u00f6rvaltningsomr\u00e5de, administrativ och geografisk indelning av Sverige"
18     },
19     {
20       "I18nNyckel": "systemaktivitet.studentinformation.nationell.sokning.pa.student",
21       "Text": "Studentinformation: S\u00f6k student i hela Ladok - nationell r\u00f6ttighetsniv\u00e5"
22     },
23     {
24       "I18nNyckel": "systemaktivitet.studiedeltagande.forbereda_tillfallesbyte.student",
25       "Text": "Student-Studiedeltagande: F\u00f6rbered tillf\u00e4llesbyte"
26     },
27     {
28       "I18nNyckel": "systemaktivitet.studiedeltagande.lasa_studieval",
29       "Text": "Studiedeltagande: Studieval - endast l\u00e4sa"
30     },
31     {
32       "I18nNyckel": "kataloginformation.fel.detaljkod.lokaltext",
33       "Text": "Lokal text"
34     },
35     {
36       "I18nNyckel": "systemaktivitet.resultat.bereda_avslag_studentarende",
37       "Text": "Tillgodor\u00f6rande: Bereda avslag"
38     },
39     {
40       "I18nNyckel": "arendestod.fel.detaljkod.fordelningsfilter",
41       "Text": "F\u00f6rdelningsfilter"
42     },
43     {
44       "I18nNyckel": "kataloginformation.fel.detaljkod.bestalld_tidpunkt",
45       "Text": "Best\u00e4lld tidpunkt"
46     },
47     {
48       "I18nNyckel": "systemaktivitet.examen.hantera.nationell.bevisinformation",
49       "Text": "Bevis: Hantera nationell bevisinformation"
50     }
51   ]
52 }

```

```

50     },
51     {
52         "I18nNyckel": "systemaktivitet.resultat.tabort.attesterat_resultat",
53         "Text": "Resultat: Ta bort attesterat resultat"
54     },
55     {
56         "I18nNyckel": "systemaktivitet.resultat.handlagga_tillgodoraknande",
57         "Text": "Tillgodor\u00e4knande: Bereda tillgodor\u00e4knande f\u00f6r del av kurs inkl. klarmärke"
58     },
59     {
60         "I18nNyckel": "systemaktivitet.resultat.aktivitetstillfalle.se_anonym_student.student",
61         "Text": "Student-Resultat: Se student med anonymkod"
62     },
63     {
64         "I18nNyckel": "commons.domain.anvandarnamn",
65         "Text": "Anv\u00e4ndarnamn (EPPN)"
66     },
67     {
68         "I18nNyckel": "commons.fel.detaljkod.autentisering_return_uri",
69         "Text": "URI f\u00f6r att slutf\u00f6ra \u00e5tg\u00e4rd som kr\u00e4ver autentisering"
70     },
71     {
72         "I18nNyckel": "commons.domain.larosate.hkr",
73         "Text": "H\u00f6gskolan Kristianstad"
74     },
75     {
76         "I18nNyckel": "systemaktivitet.studentinformation.nationell.sokning.pa.student.lokal",
77         "Text": "Studentinformation: S\u00f6ka student i hela Ladok - lokal r\u00e4ttighetsniv\u00e5"
78     },
79     {
80         "I18nNyckel": "systemaktivitet.examen.bevisansokan.av.student.student",
81         "Text": "Student-Bevis: Bevisans\u00f6kan av student"
82     },
83     {
84         "I18nNyckel": "kataloginformation.grunddatakategori.definitionavantagningsomgang.beskrivning",
85         "Text": "F\u00f6rdefinierad omg\u00e5ng f\u00f6r sammanh\u00e5llen hantering av anm\u00e4lningar"
86     },
87     {
88         "I18nNyckel": "commons.fel.detaljkod.idpdata",
89         "Text": "Idp data"
90     },
91     {
92         "I18nNyckel": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
93         "Text": "Ing\u00e5r i grupp: \u00d6verf\u00f6rs till NyA"
94     },
95     {
96         "I18nNyckel": "systemaktivitet.studiedeltagande.ta_bort_registrering_efter_studieperiodens_slut",
97         "Text": "Studiedeltagande: Ta bort registrering efter studieperiodens slut (kompletterande)"
98     },
99     {
100        "I18nNyckel": "systemaktivitet.examen.administrera.installningar.for.dokument",

```



```

101     "Text": "Bevis: Hantera inst\u00e4llningar f\u00f6r dokument"
102 },
103 {
104     "I18nNyckel": "systemaktivitet.uppfoljning.publicering.egen.utsokning",
105     "Text": "Uppf\u00f6ljning: Publicera egen uts\u00f6kning"
106 },
107 {
108     "I18nNyckel": "commons.domain.regel.informationsbehorighet.utbytesstudier",
109     "Text": "Ing\u00e5r i grupp: Informationsbeh\u00f6righet - Utbytesstudier"
110 },
111 {
112     "I18nNyckel": "commons.domain.regel.versionshanteras",
113     "Text": "Versionshanteras"
114 },
115 {
116     "I18nNyckel": "systemaktivitet.utbildningsinformation.hantera.flera.utbildningstillfalle.bytt.status",
117     "Text": "Utbildningsinformation: Hantera flera tillf\u00\u00e4llen - S\u00f6tt status till p\u00e5b\u00f6rjan"
118 },
119 {
120     "I18nNyckel": "systemaktivitet.examen.bevisunderlag.andra_namn_vid_utfardande_av_bevis",
121     "Text": "Bevis: \u00c4ndra students namn vid utf\u00f6rdande av bevis"
122 },
123 {
124     "I18nNyckel": "commons.fel.detaljkod.procent",
125     "Text": "Procent"
126 },
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1457   "Text": "Menyval: Examen och bevis"
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1493         "Text": "Studiedeltagande: Dokumentera beslut"
1494     },
1495     {
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1498     },
1499     {
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1506     },
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1515     {
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1546 },
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1549     "Text": "L\u00e5n"
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1552     "I18nNyckel": "systemaktivitet.studentinformation.bestalla.folkbokforingsuppgifter.alla.studenter",
1553     "Text": "Studentinformation: Best\u00e4lla uppdatering av folkbokf\u00f6ringsuppgifter f\u00f6r a
1554 },
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1557     "Text": "YH-utbildning"
1558 },
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1560     "I18nNyckel": "commons.domain.regel.atgard_vid_orimligt_omfattningsvarde",
1561     "Text": "\u00c5tg\u00e4rd n\u00e4r f\u00f6rsta studieperiodens omfattningsv\u00e4rde blir orimlig
1562 },
1563 {
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1565     "Text": "Klassifikation av kurs med avseende p\u00e5 f\u00f6rdjupning inom h\u00f6gskoleutbildnin
1566 },
1567 {
1568     "I18nNyckel": "systemaktivitet.kataloginformationbehorighet.uppdatera.anvandarnamn",
1569     "Text": "Beh\u00f6righetshantering: \u00e4ndra anv\u00e4ndarnamn"
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1571 {
1572     "I18nNyckel": "systemaktivitet.utbildningsinformation.publicera.utbildningsinformationsstruktur",
1573     "Text": "Utbildningsinformation: Publicera tillf\u00e4llesstruktur"
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1575 {
1576     "I18nNyckel": "commons.fel.detaljkod.spraknyckel",
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1580     "I18nNyckel": "commons.fel.meddelande.kategori.max.langd",
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1583 {
1584     "I18nNyckel": "kataloginformation.datadimension.aktivitetstillfallesstatus",
1585     "Text": "Status p\u00e5 aktivitetstillf\u00e4lle"
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1587 {
1588     "I18nNyckel": "commons.domain.utbildningstillfallestyp.utbytesprogramtillfalleinresande",
1589     "Text": "Inresandetillf\u00e4lle"
1590 },
1591 {
1592     "I18nNyckel": "systemaktivitet.kataloginformationbehorighet.koppla.nationell.profil",
1593     "Text": "Beh\u00f6righetshantering: Koppla support- och nationella beh\u00f6righetsprofiler till
1594 },
1595 {
1596     "I18nNyckel": "systemaktivitet.processhantering.konfigurera_process",
1597     "Text": "Processt\u00f6d: Konfigurera process"
1598 },
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1600     "I18nNyckel": "systemaktivitet.studiedeltagande.importera_kurspaketeringsantagningar",
1601     "Text": "Studiedeltagande: Importera kurspaketeringsantagningar"
1602 },
1603 {
1604     "I18nNyckel": "kataloginformation.domain.kompletterande.meddelande.anvandarnamn_felaktigt_format",
1605     "Text": "Felaktigt format p\u00e5 anv\u00e4ndarnamn: {0}."
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1607 {
1608     "I18nNyckel": "studentarende.typavbeslut.bifall",
1609     "Text": "Bifall"
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1611 {
1612     "I18nNyckel": "kataloginformation.grunddatakategori.utbildningssatsning.beskrivning",
1613     "Text": "S\u00e4rskild \u00e5tg\u00e4rd f\u00f6r att anordna utbildning f\u00f6r ett utpekad \u00f6r
1614 },
1615 {
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1617     "Text": "Meritv\u00e4rderingsmodell"
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1619 {
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1621     "Text": "Beh\u00f6righetsadministration: Tilldela beh\u00f6righet till betafunktioner"
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1623 {
1624     "I18nNyckel": "arendestod.status.4.understatus",
1625     "Text": "Ingen understatus"
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1627 {
1628     "I18nNyckel": "commons.fel.grupp.serialisering",
1629     "Text": "Serialisering misslyckades"
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1635     {
1636         "I18nNyckel": "systemaktivitet.utbildningsinformation.hantera_utbildningsversion_for_forslag_i_ut",
1637         "Text": "Utbudsg\u00e5ng: Hantera utbildningsversion f\u00f6r f\u00f6rslag i utbudsg\u00e5ng"
1638     },
1639     {
1640         "I18nNyckel": "commons.domain.installld",
1641         "Text": "Inst\u00e4llad"
1642     },
1643     {
1644         "I18nNyckel": "systemaktivitet.emrex.verifiera.identitet.vidimera.annan.merit",
1645         "Text": "Emrex: Verifiera identitet och vidimera annan merit"
1646     },
1647     {
1648         "I18nNyckel": "kataloginformation.grunddatakategori.utbildningsomrade",
1649         "Text": "Utbildningsomr\u00e5de"
1650     },
1651     {
1652         "I18nNyckel": "commons.fel.detaljkod.fritext",
1653         "Text": "Fritext"
1654     },
1655     {
1656         "I18nNyckel": "kataloginformation.grunddatakategori.utbildningssatsning",
1657         "Text": "Utbildningssatsning"
1658     },
1659     {
1660         "I18nNyckel": "systemaktivitet.common.utbildning.kompletterandeuppgifter.nationell",
1661         "Text": "Utbildningsinformation: L\u00e5s kompletterande uppgifter fr\u00f6m andra l\u00e5ros\u00e5n"
1662     },
1663     {
1664         "I18nNyckel": "sg.visa.oavslutadekurser",
1665         "Text": "Sidinneh\u00e5ll: Visa oavslutade kurser"
1666     },
1667     {
1668         "I18nNyckel": "commons.domain.regel.ingar.i.grupp.utresande",
1669         "Text": "Ing\u00e5r i grupp: Utresande"
1670     },
1671     {
1672         "I18nNyckel": "commons.fel.grupp.felaktig.version",
1673         "Text": "Felaktig version"
1674     },
1675     {
1676         "I18nNyckel": "ansokan.status.1",
1677         "Text": "UTKAST"
1678     },
1679     {
1680         "I18nNyckel": "ansokan.status.2",
1681         "Text": "INKOMMET"

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1682     },
1683     {
1684         "I18nNyckel": "kataloginformation.fel.detaljkod.anvandare",
1685         "Text": "Anv\u00e4ndare"
1686     },
1687     {
1688         "I18nNyckel": "systemaktivitet.uppfoljning.exportera.till.scb",
1689         "Text": "Uppf\u00f6ljning: Skapa SCB-rapporter"
1690     },
1691     {
1692         "I18nNyckel": "commons.fel.grupp.saknar_innehall",
1693         "Text": "Saknar inneh\u00e5ll"
1694     },
1695     {
1696         "I18nNyckel": "systemaktivitet.studiedeltagande.lagg_till_forvantat_deltagande_pa_kurspaketerings",
1697         "Text": "Studiedeltagande: L\u00e4gg till f\u00f6rv\u00e4ntat deltagande p\u00e5 kurspaketeringst
1698     },
1699     {
1700         "I18nNyckel": "commons.fel.detaljkod.emilvarde",
1701         "Text": "EMIL-v\u00e4rde"
1702     },
1703     {
1704         "I18nNyckel": "systemaktivitet.resultat.andra_visningslage_for_noteringsdefinition_oavsett_noteri",
1705         "Text": "Resultat: \u00c4ndra visning av resultatnotering n\u00e4r inneh\u00e5ll finns"
1706     },
1707     {
1708         "I18nNyckel": "avisering.student.arendemeddelande.tg",
1709         "Text": "Avisering till studenter - Tillgodor\u00e4kande - meddelande"
1710     },
1711     {
1712         "I18nNyckel": "systemaktivitet.studiedeltagande.se_studenthistorik",
1713         "Text": "Studiedeltagande: L\u00e4sa \u00e4ndringslogg"
1714     },
1715     {
1716         "I18nNyckel": "systemaktivitet.utbildningsinformation.utbildningsmall.uppdatera.publicerad.lokal.",
1717         "Text": "Utbildningsinformation: \u00c4ndra publicerad lokal utbildningsmall - nationell r\u00e4tt
1718     },
1719     {
1720         "I18nNyckel": "commons.domain.eventhandling.category.business_rule",
1721         "Text": "Aff\u00e4rsregel"
1722     },
1723     {
1724         "I18nNyckel": "commons.domain.larosate.gron",
1725         "Text": "Gr\u00f6na l\u00e4ros\u00e4tt"
1726     },
1727     {
1728         "I18nNyckel": "systemaktivitet.isp.kommentera_isp",
1729         "Text": "Individuell studieplan: Kommentera individuell studieplan"
1730     },
1731     {
1732         "I18nNyckel": "systemaktivitet.utbildningsinformation.utbildningstillfalle.tillpaborjad",

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1733     "Text": "Utbildningsinformation: S\u00e4tt status p\u00e5 utbildningstillf\u00e4lle till p\u00e5b\u00f6rjan",
1734 },
1735 {
1736     "I18nNyckel": "systemaktivitet.studiedeltagande.hantera.intygforvantatdeltagande.student",
1737     "Text": "Student-Studiedeltagande: H\u00e4mta eget intyg \u00f6ver f\u00f6rv\u00e4ntat deltagande",
1738 },
1739 {
1740     "I18nNyckel": "systemaktivitet.arendestod.hantera.arendе.antagning.behorighetsvillkor.aterbud.vid",
1741     "Text": "Extintegration: Hantera \u00e4renden r\u00f6rande antagning, beh\u00f6righetsvillkor och",
1742 },
1743 {
1744     "I18nNyckel": "commons.fel.detalkod.markningstyp",
1745     "Text": "M\u00e4rkningstyp"
1746 },
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1749     "Text": "\u00d6verliggande part"
1750 },
1751 {
1752     "I18nNyckel": "systemaktivitet.resultat.skapa_resultat_via_massinlaggning",
1753     "Text": "Resultat: Klistra in resultat via aktivitetstillf\u00e4lle"
1754 },
1755 {
1756     "I18nNyckel": "systemaktivitet.utbildningsinformation.informationsbehorighet.yh.utbildning",
1757     "Text": "Utbildningsinformation: Informationsbeh\u00f6righet - YH-Utbildning"
1758 },
1759 {
1760     "I18nNyckel": "kataloginformation.grunddatakategori.periodtypkategori.nationellt.definierad.och.lokal",
1761     "Text": "Nationellt definierad och lokalt fastst\u00e4lld period"
1762 },
1763 {
1764     "I18nNyckel": "systemaktivitet.studiedeltagande.lasa_studieval.student",
1765     "Text": "Student-Studiedeltagande: Studieval - endast l\u00e4sa"
1766 },
1767 {
1768     "I18nNyckel": "arendestod.notering.bilaga_borttagen",
1769     "Text": "Bilaga borttagen"
1770 },
1771 {
1772     "I18nNyckel": "avisering.student.bevakning.aktiverad",
1773     "Text": "Avisering till studenter - Bevakning - ISP"
1774 },
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1777     "Text": "Svensk ort"
1778 },
1779 {
1780     "I18nNyckel": "systemaktivitet.uppfoljning.population.student.adresslista",
1781     "Text": "Utdata: Skapa adresslista f\u00f6r population"
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1784     "I18nNyckel": "commons.fel.detaljkod.atkomstkontroll",
1785     "Text": "\u00c5tkomstkontroll"
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1789     "Text": "Eduapi: L\u00e4s eduapi-information"
1790 },
1791 {
1792     "I18nNyckel": "commons.fel.detaljkod.konfiguration_av_auktorisering",
1793     "Text": "Konfiguration av auktorisering"
1794 },
1795 {
1796     "I18nNyckel": "kataloginformation.domain.kompletterande.meddelande.id_saknas_till_aktivitet_kraver",
1797     "Text": "F\u00f6ljande ID till aktivitet som kr\u00e4ver \u00e5terautentisering saknas: {0}."
1798 },
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1801     "Text": "Utbildningsinformation: Hantera litteraturpost"
1802 },
1803 {
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1805     "Text": "Student-Intyg: Skapa nationellt resultatintyg"
1806 },
1807 {
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1809     "Text": "Studiedeltagande: L\u00e4gg till f\u00f6rv\u00e4ntat deltagande p\u00e5 frist\u00e5ende"
1810 },
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1812     "I18nNyckel": "systemaktivitet.studentinformation.dokumentera.avskiljandebeslut",
1813     "Text": "Studentinformation: Dokumentera avskiljandebeslut"
1814 },
1815 {
1816     "I18nNyckel": "kataloginformation.grunddatakategori.nivainomstudieordning.beskrivning",
1817     "Text": "Anger p\u00e5 vilken niv\u00e5 en utbildning ligger inom en viss studieordning."
1818 },
1819 {
1820     "I18nNyckel": "systemaktivitet.examen.hantera.bevisarende",
1821     "Text": "Bevis: Hantera bevis\u00e4rende"
1822 },
1823 {
1824     "I18nNyckel": "commons.fel.detaljkod.signal",
1825     "Text": "Signal"
1826 },
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1828     "I18nNyckel": "kataloginformation.grunddatakategori.dokumentkonfiguration",
1829     "Text": "Dokumentkonfiguration"
1830 },
1831 {
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1833     "Text": "Utbildningsinformation: Hantera utbildningstillf\u00e4lle i status p\u00e5 b\u00f6rjad"
1834 },

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1835     {
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1837         "Text": "Utbytesstudier"
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1839     {
1840         "I18nNyckel": "kataloginformation.fel.detaljkod.utdelningsadress",
1841         "Text": "Utdelningsadress"
1842     },
1843     {
1844         "I18nNyckel": "systemaktivitet.resultat.vidimera.merit",
1845         "Text": "Resultat: Vidimera annan merit"
1846     },
1847     {
1848         "I18nNyckel": "commons.fel.detaljkod.preciseringsgrupperingstyp",
1849         "Text": "Preciseringsgrupperingstyp"
1850     },
1851     {
1852         "I18nNyckel": "commons.fel.kategori.regelovertradelse",
1853         "Text": "Systemregel \u00f6vertr\u00e4ds"
1854     },
1855     {
1856         "I18nNyckel": "systemaktivitet.studiedeltagande.ta_bort_externt_forvantat_deltagande_kurspaketeri",
1857         "Text": "Studiedeltagande: Ta bort externt f\u00f6rv\u00e4ntat deltagande p\u00e5 kurspaketerings"
1858     },
1859     {
1860         "I18nNyckel": "kataloginformation.domain.filtersokning.objektstyp.anvandarbehorighet",
1861         "Text": "Anv\u00e4ndarbeh\u00f6righet"
1862     },
1863     {
1864         "I18nNyckel": "systemaktivitet.resultat.vidimera.merit.ratta_som_saknar_beroende",
1865         "Text": "Resultat: R\u00e4tta annan merit som inte ing\u00e5r i beslut"
1866     },
1867     {
1868         "I18nNyckel": "systemaktivitet.extintegration.extra_lasaktivitet",
1869         "Text": "Extintegration: Extra l\u00e5saktivitet"
1870     },
1871     {
1872         "I18nNyckel": "systemaktivitet.kataloginformation.behorighet.administrera.support.profil",
1873         "Text": "Beh\u00f6righetshantering: Hantera beh\u00f6righetsprofiler - supportniv\u00e5"
1874     },
1875     {
1876         "I18nNyckel": "commons.domain.kurskod",
1877         "Text": "Kurskod"
1878     },
1879     {
1880         "I18nNyckel": "systemaktivitet.arendestod.las",
1881         "Text": "\u00e4rendest\u00f6d: L\u00e5s information"
1882     },
1883     {
1884         "I18nNyckel": "commons.domain.regel.informationsbehorighet.uppdraagsutbildning",
1885         "Text": "Ing\u00e5r i grupp: Informationsbeh\u00f6righet - Uppdragsutbildning"
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1886     },
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1891     {
1892         "I18nNyckel": "commons.domain.utbildningstyp",
1893         "Text": "Utbildningstyp"
1894     },
1895     {
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1897         "Text": "Processuppgiftsavslut"
1898     },
1899     {
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1901         "Text": "Processtatus"
1902     },
1903     {
1904         "I18nNyckel": "sg.avbrottpakurs",
1905         "Text": "Till\u00e5t: Student f\u00e5r g\u00f6ra avbrott p\u00e5 kurs"
1906     },
1907     {
1908         "I18nNyckel": "kataloginformation.domain.kompletterande.meddelande.behorighetsprofil_ingaende_hittas_inte",
1909         "Text": "Ing\u00e5ende beh\u00f6righetsprofil hittas inte: {0}."
1910     },
1911     {
1912         "I18nNyckel": "commons.fel.detaljkod.utbildningsregel",
1913         "Text": "Regel"
1914     },
1915     {
1916         "I18nNyckel": "commons.fel.grupp.auktorisering",
1917         "Text": "\u00c5tkomstkontroll"
1918     },
1919     {
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1921         "Text": "Enhetsskala"
1922     },
1923     {
1924         "I18nNyckel": "kataloginformation.sokfilter.efternamn",
1925         "Text": "Efternamn"
1926     },
1927     {
1928         "I18nNyckel": "systemaktivitet.utbildningsinformation.informationsbehorighet.alla.utbildningstyper",
1929         "Text": "Utbildningsinformation: Informationsbeh\u00f6righet - Alla utbildningstyper"
1930     },
1931     {
1932         "I18nNyckel": "systemaktivitet.utbildningsinformation.skapa_utbud_fran_forslag",
1933         "Text": "Utbudsomg\u00e5ng: Skapa utbud fr\u00e5n f\u00f6rslag"
1934     },
1935     {
1936         "I18nNyckel": "systemaktivitet.arendestod.hantera.arendes.aterbudsarende.studiedeltagande.vid.sokn

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1937     "Text": "Studiedeltagande: Hantera \u00e5terbuds\u00e4rende vid s\u00f6kning (kompletterande)"
1938 },
1939 {
1940     "I18nNyckel": "kataloginformation.grunddatakategori.periodtypkategori.lokalt.definierad.och.fastst\u00e4llt",
1941     "Text": "Lokalt definierad och fastst\u00e4llt period"
1942 },
1943 {
1944     "I18nNyckel": "kataloginformation.domain.kompletterande.meddelande.anv\u00e4ndare_saknas_i_anv\u00e4ndarbeh\u00f6righet",
1945     "Text": "Anv\u00e4ndare saknas i anv\u00e4ndarbeh\u00f6righet."
1946 },
1947 {
1948     "I18nNyckel": "resultat.arendetg",
1949     "Text": "Tillgodor\u00e4knande\u00e4rendetg"
1950 },
1951 {
1952     "I18nNyckel": "kataloginformation.sokfilter.fornamn",
1953     "Text": "F\u00f6rnamn"
1954 },
1955 {
1956     "I18nNyckel": "systemaktivitet.studiedeltagande.las.student",
1957     "Text": "Student-Studiedeltagande: L\u00e4sa information"
1958 },
1959 {
1960     "I18nNyckel": "kataloginformation.grunddatakategori.forkunskapsniva.beskrivning",
1961     "Text": "Klassifikation av kurs med avseende p\u00e5 f\u00f6rkunskapskrav i \u00e4mnet, t.ex. 1-2"
1962 },
1963 {
1964     "I18nNyckel": "systemaktivitet.avgiftshantering.lasa",
1965     "Text": "Studieavgifter: L\u00e4sa information"
1966 },
1967 {
1968     "I18nNyckel": "systemaktivitet.resultat.las.rapporteringsrattigheter",
1969     "Text": "Resultat: L\u00e4sa rapporteringsr\u00e4ttigheter"
1970 },
1971 {
1972     "I18nNyckel": "commons.fel.detaljkod.regelvarde",
1973     "Text": "Regelv\u00e4rde"
1974 },
1975 {
1976     "I18nNyckel": "systemaktivitet.studiedeltagande.dokumentera_avklarad_kurspaketering",
1977     "Text": "Studiedeltagande: Dokumentera avklarad kurspaketering"
1978 },
1979 {
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1982 },
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1985     "Text": "Autentiseringstyp"
1986 },
1987 {

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1989     "Text": "Studentinformation: Hantera identitetsuppgifter via LIS-adaptern"
1990 },
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1993     "Text": "Processt\u00f6d: Starta process"
1994 },
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1997     "Text": "Resultat: L\u00e5sa betygsf\u00f6rdelning per aktivitetstillf\u00e4lle"
1998 },
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2001     "Text": "Utbudsg\u00e5ng: Hantera kurspaketeringstillf\u00e4lle i utbudsg\u00e5ng"
2002 },
2003 {
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2005     "Text": "En plats d\u00e4r ett l\u00e5ros\u00e4r erbjudet utbildning. Anv\u00e4nds om ett l\u00e5r
2006 },
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2009     "Text": "Bevakning: Hantera egna personliga bevakningar"
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2013     "Text": "Processt\u00f6d: Hantera processuppgift, student"
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2015 {
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2017     "Text": "Processt\u00f6d: L\u00e5sa information"
2018 },
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2029     "Text": "Resultat"
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2033     "Text": "Beslutsunderlag klarmarkerat"
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2045         "Text": "Denna anteckning kopplas till beslutet och visas f\u00f6r studenten i Ladok f\u00f6r stu
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2053         "Text": "Studieavgifter: \u00c4ndra betalningsreferens, studieavgift och omfattning (kompletteran
2054     },
2055     {
2056         "I18nNyckel": "kataloginformation.grunddatakategori.utbildningssamarbete.regel.c",
2057         "Text": "Utbildningssamarbete som administreras p\u00e5 lokal niv\u00e5 ska ej ange \"gemensam ex
2058     },
2059     {
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2061         "Text": "Utbildningssamarbete som administreras p\u00e5 lokal niv\u00e5 ska ej ange \"administrer
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2063     {
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2065         "Text": "Utbildningssamarbete som administreras p\u00e5 lokal niv\u00e5 kan endast anv\u00e4nda d
2066     },
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2069         "Text": "F\u00f6rdefinierat tidsspann som kan anv\u00e4ndas som underlag f\u00f6r att skapa perio
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2073         "Text": "Individuell studieplan: L\u00e4sa information"
2074     },
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2079     {
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2085         "Text": "V\u00e4rde"
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2089         "Text": "Sid inneh\u00e5ll: Visa kommande kurser"

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2094     },
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2105         "Text": "Gemensam examen"
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2117         "Text": "Referensben\u00e4mning"
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2125         "Text": "De m\u00f6jligheter som st\u00e5r till buds f\u00f6r en student att f\u00f6rs\u00f6ra s
2126     },
2127     {
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2206 },
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2266     },
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2269         "Text": "Tidsgr\u00e4ns"
2270     },
2271     {
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2273         "Text": "S\u00f6kv\u00e4g till pdf"
2274     },
2275     {
2276         "I18nNyckel": "systemaktivitet.studiedeltagande.administrera.aktorer",
2277         "Text": "Studiedeltagande: Hantera akt\u00f6rer"
2278     },
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2282     },
2283     {
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2285         "Text": "Ing\u00e5r i grupp: \u00c4mne p\u00e5 forskarniv\u00e5"
2286     },
2287     {
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2289         "Text": "Kategori av periodtyp"
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2291     {
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2293         "Text": "Bevis: Hantera tillf\u00e4lleg namn\u00e4ndring f\u00f6r bevis"

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2298     },
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2302     },
2303     {
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2305         "Text": "Intyg: Skapa nationellt resultatintyg"
2306     },
2307     {
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2309         "Text": "Individuell studieplan: Hantera flera - \u00c4ndra datum"
2310     },
2311     {
2312         "I18nNyckel": "kataloginformation.domain.kompletterande.meddelande.datadimension_kan_ej_lista_var",
2313         "Text": "Kan inte lista v\u00e4rden f\u00f6r angiven datadimension."
2314     },
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2325         "Text": "\u00c4rende klarmarkerat"
2326     },
2327     {
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2329         "Text": "Common: Interna systemanrop"
2330     },
2331     {
2332         "I18nNyckel": "systemaktivitet.common.individuell.tillfalle",
2333         "Text": "Studiedeltagande: L\u00e4gg till individuell utbildningstillf\u00e4lle"
2334     },
2335     {
2336         "I18nNyckel": "systemaktivitet.resultat.tillgodoraknande.hantera.lokala_standardtexter",
2337         "Text": "Tillgodor\u00e4knande: Hantera lokala standardformuleringar"
2338     },
2339     {
2340         "I18nNyckel": "systemaktivitet.studiedeltagande.genomfor_aterbud.student",
2341         "Text": "Student-Studiedeltagande: Meddela \u00e5terbud"
2342     },
2343     {
2344         "I18nNyckel": "systemaktivitet.extintegration.visa.skapade.intyg.student",

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2345     "Text": "Student-Intyg: Visa skapade intyg"
2346   },
2347   {
2348     "I18nNyckel": "commons.domain.larosate.alt",
2349     "Text": "Akademi f\u00f6r Ledarskap och Teologi"
2350   },
2351   {
2352     "I18nNyckel": "systemaktivitet.pedagogisktstod.hantera_konfiguration_for_aktivitetstillfalle",
2353     "Text": "Pedagogiskt st\u00f6d: Hantera inst\u00e4llningar"
2354   },
2355   {
2356     "I18nNyckel": "systemaktivitet.kataloginformation.skapa.lokal.grunddataidentitet",
2357     "Text": "Kataloginformation: Skapa grunddataidentitet - lokal r\u00e4ttighetsniv\u00e5"
2358   },
2359   {
2360     "I18nNyckel": "arendestod.handelse.meddelande.bilaga.till_student",
2361     "Text": "Bilaga till student"
2362   },
2363   {
2364     "I18nNyckel": "commons.domain.larosate.gu",
2365     "Text": "G\u00f6teborgs universitet"
2366   },
2367   {
2368     "I18nNyckel": "sg.aterbudpapaketering",
2369     "Text": "Till\u00e5t: Student f\u00f6r l\u00e4rarna \u00e5terbud p\u00e5 paketering"
2370   },
2371   {
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2374   },
2375   {
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2378   },
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2381     "Text": "Internt anrop f\u00f6r skriv funktionflaggor"
2382   },
2383   {
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2385     "Text": "Basbeh\u00f6righet f\u00f6r att anv\u00e4nda systemet"
2386   },
2387   {
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2389     "Text": "H\u00f6gskolan i Halmstad"
2390   },
2391   {
2392     "I18nNyckel": "kataloginformation.fel.detaljkod.anvandarnamn",
2393     "Text": "EduPersonPrincipalName"
2394   },
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2398 },
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2401     "Text": "H\u00f6gskolan i J\u00f6nk\u00f6ping"
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2405     "Text": "H\u00f6gskolan i Bor\u00e5s"
2406 },
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2440     "I18nNyckel": "kataloginformation.domain.kompletterande.meddelande.anvandare_hittas_ej",
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2443 {
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2482     },
2483     {
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2485       "Text": "Student-Emrex: L\u00e4sa information"
2486     },
2487     {
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2489       "Text": "Kan ha plan f\u00f6r utbildning"
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2493       "Text": "Po\u00e4ng"
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2495     {
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2497       "Text": "Utbildningsinformation: Makulera plan f\u00f6r utbildning"
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2509         "Text": "Utbildningsinformation: Informationsbeh\u00f6righet - F\u00f6rutbildning"
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2529         "Text": "Utbildningsinstans"
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2549     "Text": "Beh\u00f6righetsadministration: Skapa och ta bort dataavgr\u00e4nsningar p\u00e5 beh\u00f6righetsadministration",
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2554 },
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2562 },
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2613     "Text": "Studiedeltagande: Dokumentera avbrott tidigare \u004n dagens datum f\u00f6r kurs (kompl
2614 },
2615 {
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2618 },
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2622 },
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2629     "Text": "Gateway"
2630 },
2631 {
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2633     "Text": "Utbildningsinformation: Hantera strukturerad litteraturlista"
2634 },
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2657         "Text": "Studiedeltagande: L\u00e4gg till f\u00f6rv\u00e4ntat deltagande p\u00e5 kurstillf\u00e4lle_i",
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2670     },
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2674     },
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2677         "Text": "Resultat: Till\u00e5t annan merit i examen"
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2682     },
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2686     },
2687     {
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2689         "Text": "Underlag \u00e4ndrat efter klarmarkering"
2690     },
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2693         "Text": "Underlagsspecificering"
2694     },
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2697         "Text": "Kataloginformation beh\u00f6righetsadministration: Allt - fullst\u00e4ndig lokal beh\u00f6righet"
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2701         "Text": "Orsak till avst\u00e4ngning"

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2708         "I18nNyckel": "systemaktivitet.extintegration.skapa.intygforvantatdeltagande.student",
2709         "Text": "Student-Intyg: Skapa intyg \u00f6ver f\u00f6rv\u00e4ntat deltagande"
2710     },
2711     {
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2713         "Text": "Samordnat internationellt utbyte f\u00f6r studenter mellan l\u00e4ros\u00e4ten som regleras av utbytesprogrammet"
2714     },
2715     {
2716         "I18nNyckel": "kataloginformation.grunddatakategori.orsakejavgiftsskyldig.beskrivning",
2717         "Text": "Anger de orsaker som kan f\u00f6ranleda att en student inte \u00e4r avgiftsskyldig."
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2725         "Text": "Massachusetts Institute of Technology"
2726     },
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2737         "Text": "Kurspakettillf\u00e4lle"
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2741         "Text": "\u00c4rendekorg"
2742     },
2743     {
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2745         "Text": "Beh\u00f6righetskontrollant"
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2750     },
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2753     "Text": "Utbudsmg\u00e5ng: Skapa och hantera utbudsmg\u00e5ng"
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2757     "Text": "Delvis bifall"
2758 },
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2761     "Text": "S\u00f6kning: S\u00f6ka kurser"
2762 },
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2766 },
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2778 },
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2781     "Text": "Utbildningsinformation: L\u00e5sa annonseringsinformation"
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2789     "Text": "Lunds universitet"
2790 },
2791 {
2792     "I18nNyckel": "systemaktivitet.uppfoljning.andra.andras.las",
2793     "Text": "Uppf\u00f6ljning: Hantera l\u00e5s p\u00e5 andras uts\u00f6kningar"
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2809     "Text": "Studiedeltagande: \u00c4ndra placering i studieplan f\u00f6r kurstillf\u00e4lle"
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2821     "Text": "Bevis\u00e4rende"
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2841     "Text": "Newmaninstitutet"
2842 },
2843 {
2844     "I18nNyckel": "systemaktivitet.funktionsflaggor.lasa",
2845     "Text": "Funktionsflaggor: L\u00e5sa funktionsflaggor"
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2853     "Text": "Strukturniv\u00e5"
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2860       "I18nNyckel": "systemaktivitet.studentinformation.hantera.avlidenarende",
2861       "Text": "Studentinformation: Hantera avliden\u00e4rende"
2862     },
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2865       "Text": "Finansieringsform"
2866     },
2867     {
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2869       "Text": "Menyval: Individuell studieplan"
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2901       "Text": "Menyval: Mina uppgifter"
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2935     {
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2953         "Text": "De olika utbildnings- och utbildningstillf\u00e4llesobjekt som kan ing\u00e5 i en utbildning"
2954     },
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2956         "I18nNyckel": "systemaktivitet.resultat.attestera_tillgodoraknande.helkurs",

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2966   },
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2969     "Text": "Bevis: L\u00e4sa \u00e4ndringslogg"
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2973     "Text": "Resultat: Skapa aktivitetstillf\u00e4lle i status utkast"
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2977     "Text": "Tilldela"
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2979   {
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2982   },
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2987   {
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3014 },
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3019 {
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3027 {
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3047 {
3048     "I18nNyckel": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
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3065         "Text": "Grunddatav\u00e4rde som kan anv\u00e4ndas av l\u00e4ros\u00e4tets lokala attribut f\u00f6r",
3066     },
3067     {
3068         "I18nNyckel": "commons.fel.detaljkod.utlandsk.ort",
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3075     {
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3105         "Text": "Bevis: L\u00e4sa borttaga bevis"
3106     },
3107     {
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3192     "I18nNyckel": "systemfunktion.id.100012",
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3205     "Text": "Utbildningsinformation: Till\u00e4t befintligt tillf\u00e4lle som f\u00f6rlaga f\u00f6r"
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3209     "Text": "Beviskategori"
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3214 },
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3224     "I18nNyckel": "systemfunktion.id.100022",
3225     "Text": "Allm\u00e4n skapa meddelande i \u00e4rende"
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3227 {
3228     "I18nNyckel": "systemfunktion.id.100020",
3229     "Text": "Administrera \u00e4rendekorgar p\u00e5 lokal niv\u00e5"
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3237     "Text": "Anv\u00e4ndarinformation"
3238 },
3239 {
3240     "I18nNyckel": "kataloginformation.grunddatakategori.amnesgrupp.beskrivning",
3241     "Text": "Av SCB utarbetad gruppering av kurser. Anv\u00e4nds f\u00f6r statistiska \u00e4ndam\u00e5l"
3242 },
3243 {
3244     "I18nNyckel": "commons.domain.larosate.sh",
3245     "Text": "S\u00f6dert\u00f6rns h\u00f6gskola"
3246 },
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3248     "I18nNyckel": "systemaktivitet.studentinformation.dokumentera.identitetsuppgifter",
3249     "Text": "Studentinformation: Hantera identitetsuppgifter"
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3251 {
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3257     "Text": "Organisation"
3258 },
3259 {
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3262 },

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3263     {
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3267     {
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3269         "Text": "Ladok f\u00f6r studenter: Aktivt p\u00e5 l\u00e4ros\u00e4tet"
3270     },
3271     {
3272         "I18nNyckel": "systemaktivitet.examen.ratta.utfardat.bevis",
3273         "Text": "Bevis: R\u00e4tta utf\u00e4rdat bevis"
3274     },
3275     {
3276         "I18nNyckel": "arendestod.status.7.understatus",
3277         "Text": "Utan \u00e5tg\u00e4rd"
3278     },
3279     {
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3281         "Text": "Stockholms universitet"
3282     },
3283     {
3284         "I18nNyckel": "commons.fel.grupp.autentisering",
3285         "Text": "Autentisering"
3286     },
3287     {
3288         "I18nNyckel": "sg.visa.installningar",
3289         "Text": "Menyval: Mina uppgifter"
3290     },
3291     {
3292         "I18nNyckel": "kataloginformation.grunddatakategori.periodtypkategori.nationellt.definierad.och.f",
3293         "Text": "Nationellt definierad och fastst\u00e4lld period"
3294     },
3295     {
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3297         "Text": "Pedagogiskt st\u00f6d: Dokumentera st\u00f6d f\u00f6r student"
3298     },
3299     {
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3301         "Text": "Felaktig summa"
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3303     {
3304         "I18nNyckel": "systemaktivitet.kataloginformationbehorighet.administrera.las.profil",
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3313         "Text": "Aktivt: Studentgr\u00e4nssnitt aktivt p\u00e5 l\u00e4ros\u00e4tet"

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3314     },
3315     {
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3318     },
3319     {
3320         "I18nNyckel": "systemaktivitet.studiedeltagande.andra.placering.i.plan.tillata.kopierad.registrering",
3321         "Text": "Studiedeltagande: \u00c4ndra placering i studieplan f\u00f6r kopierad registrering oavsett om det \u00e4r en ny registrering"
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3731     {
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4221     "Text": "Studiedeltagande: Registrera trots villkor (kompletterande)"
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4225     "Text": "Utbildningsinformation: Hantera utbildningstillf\u00e4lle i status utkast"
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4234 },
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4239 {
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4249     "Text": "Extintegration: NyA l\u00e4saktivitet"
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4254 },
4255 {
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4264     "I18nNyckel": "commons.domain.uid",
4265     "Text": "Unik identifierare"
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4267 {
4268     "I18nNyckel": "systemaktivitet.examen.bevisansokan.genomfordutbildning",
4269     "Text": "Student-Bevis: Ans\u00f6ka om bevis \u00f6ver genomf\u00f6rd utbildning"
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4273     "Text": "Error URL"
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4289         "Text": "API: Lista studenter med skyddade folkbokf\u00f6ringsuppgifter vid eget l\u00e4ros\u00e4r",
4290     },
4291     {
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4293         "Text": "Bevis: Ta bort notering i bevis\u00e4rende"
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4491     {
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4510     },
4511     {
4512         "I18nNyckel": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
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4515     {
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4593     "Text": "Gymnastik- och idrottsh\u00f6gskolan"
4594 },
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4597     "Text": "Utan anm\u00e5lan"
4598 },
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4618 },
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4633     "Text": "Spara Aktivitetstillf\u00e4llestyp nationellt"
4634 },
4635 {
4636     "I18nNyckel": "systemfunktion.id.10094",
4637     "Text": "Spara tj\u00e4nstekonfiguration p\u00e5 nationell niv\u00e5"
4638 },
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4657     "Text": "Nyckel"
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4660     "I18nNyckel": "systemaktivitet.resultat.aktivitetstillfalle_skapa_och_publicera",
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4662 },
4663 {
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4665     "Text": "Individuell studieplan: Hantera lokala anpassningar"
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4667 {
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4669     "Text": "Ben\u00e4mning och utbildningskod"
4670 },
4671 {
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4673     "Text": "Tillh\u00f6righeter"
4674 },
4675 {
4676     "I18nNyckel": "kataloginformation.grunddatakategori.land.beskrivning",
4677     "Text": "Geografiskt omr\u00e5de som utg\u00f6r, eller har utgjort, en sj\u00e4lvstyrande politisk
4678 enhet"
4679 },
4680 {
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4682     "Text": "Studiedeltagande: Informationsbeh\u00f6righet - YH-Utbildning"
4683 },
4684 {
4685     "I18nNyckel": "systemaktivitet.utbildningsinformation.utbildningstillfalle.administrera.i.status",
4686     "Text": "Utbildningsinformation: Hantera utbildningstillf\u00e4lle i status komplett"
4687 },
4688 {
4689     "I18nNyckel": "systemaktivitet.resultat.skapa.ratta_titel_pa_resultatarende",
4690     "Text": "Resultat: R\u00e4tta titel i resultat - skapa \u00e4rende"

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4693         "Text": "Studieaktivitet"
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4697         "Text": "Student-Bevis: Bifoga bilaga i ans\u00f6kan"
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4705         "Text": "Studiedeltagande: Ta bort flera f\u00f6rv\u00e4ntade deltaganden p\u00e5 kurstillf\u00f6ll"
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4707     {
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4709         "Text": "Studentinformation: Hantera Ersatt identitet-\u00e4rende"
4710     },
4711     {
4712         "I18nNyckel": "kataloginformation.grunddatakategori.orsakavstangning.beskrivning",
4713         "Text": "Anger vilka fall av avst\u00e4nningsbeslut som kan dokumenteras i Ladok."
4714     },
4715     {
4716         "I18nNyckel": "kataloginformation.grunddatakategori.undervisningstid.beskrivning",
4717         "Text": "Tid p\u00e5 dygnet, alternativt dagar under veckan, d\u00e5 undervisning huvudsakligen s
4718     },
4719     {
4720         "I18nNyckel": "commons.fel.detaljkod.referens_uid",
4721         "Text": "Referens"
4722     },
4723     {
4724         "I18nNyckel": "kataloginformation.domain.kompletterande.meddelande.organisation_hittas_ej_refer",
4725         "Text": "Hittade ej en organisation (UID: {0}) som refereras fr\u00f6m en beh\u00f6righetsprofil
4726     },
4727     {
4728         "I18nNyckel": "systemaktivitet.utbildningsinformation.skapa.individuellt.utbildningstillfalle",
4729         "Text": "Utbildningsinformation: Skapa individuellt utbildningstillf\u00e4lle"
4730     },
4731     {
4732         "I18nNyckel": "systemaktivitet.studiedeltagande.las.anteckning",
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4737         "Text": "K\u00f6n"
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4739     {
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4741         "Text": "Studiedeltagande: L\u00e4gg till f\u00f6rv\u00e4ntat deltagande p\u00e5 frist\u00e5ende

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4749         "Text": "Av SCB och UK\u00c4 (HSV) utarbetad gruppering av huvudomr\u00e5den med utg\u00e5ngspunk
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4753         "Text": "Bevis: Hantera lokal bevisinformation"
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4757         "Text": "Till\u00e4t: Student f\u00f6r registrera p\u00e5 kurs"
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4759     {
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4765         "Text": "Lokal signalering: Skicka signaler"
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4767     {
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4789         "Text": "Utbildningsinformation: Hantera attribut som ing\u00e5r i plan"
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4793     "Text": "Utbildningsinformation: S\u00e4tt status p\u00e5 utbildning till p\u00e5b\u00f6rjad"
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4798 },
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4809     "Text": "Po\u00e4ng (annan utbildning)"
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4814 },
4815 {
4816     "I18nNyckel": "commons.domain.larosate.kmh",
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4818 },
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4827 {
4828     "I18nNyckel": "systemaktivitet.utbildningsinformation.utbildningsmall.uppdatera.publicerad.lokal",
4829     "Text": "Utbildningsinformation: \u00e4ndra publicerad lokal utbildningsmall - lokal r\u00e4ttighet"
4830 },
4831 {
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4834 },
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4837     "Text": "Studiedeltagande: Dokumentera avbrott tidigare \u00e4n dagens datum f\u00f6r kurspaketer"
4838 },
4839 {
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4841     "Text": "Anv\u00e4ndare\u00e5tg\u00e4rd"
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4854 },
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4874 },
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4877     "Text": "\u00d6rebro universitet"
4878 },
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4889     "Text": "Ort saknas: {0}."
4890 },
4891 {
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4894 },

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4898     },
4899     {
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4903     {
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4922     },
4923     {
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4925       "Text": "Testa m\u00f6nster f\u00f6r i18n-nyckel. var 1: {0}, var 2: {1}."
4926     },
4927     {
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4929       "Text": "Anv\u00e4ndarnamn"
4930     },
4931     {
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4934     },
4935     {
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4937       "Text": "Radera"
4938     },
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4941       "Text": "Orsak till ej avgiftsskyldig"
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4943     {
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4945       "Text": "Systemaktivitet"
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4949         "Text": "Telefonnummer"
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4951     {
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4956         "I18nNyckel": "systemaktivitet.utbildningsinformation.utbildningstillfalle.tillkomplett",
4957         "Text": "Utbildningsinformation: S\u00e4tt status p\u00e5 utbildningstillf\u00e4lle till komplett"
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4959     {
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4965         "Text": "Inriktning"
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4967     {
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4969         "Text": "Menyval: Avslutad utbildning"
4970     },
4971     {
4972         "I18nNyckel": "arendestod.handelse.meddelande.i_ansokan",
4973         "Text": "Meddelande i ans\u00f6kan"
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4977         "Text": "Personnummer"
4978     },
4979     {
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4981         "Text": "Kategorisering av praktik som m\u00f6jligg\u00f6r strukturerade s\u00f6kningar och sortering"
4982     },
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4986     },
4987     {
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4995     {
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4997     "Text": "S\u00f6kv\u00e4g till mall"
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5005     "Text": "Studiedeltagande: Ej produktionsf\u00e4rdig funktionalitet"
5006   },
5007   {
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5009     "Text": "Funktionsflaggor"
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5013     "Text": "Filhantering"
5014   },
5015   {
5016     "I18nNyckel": "sg.tillgodoraknakurs",
5017     "Text": "Sid inneh\u00e5ll: Visa tillgodor\u00e4knade delar"
5018   },
5019   {
5020     "I18nNyckel": "dokumenthantering.fel.detalkod.dokumentmallparametervardetyp",
5021     "Text": "Typ av dokumentmallparameterv\u00e4rde"
5022   },
5023   {
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5025     "Text": "Finansieringsformer"
5026   },
5027   {
5028     "I18nNyckel": "systemaktivitet.isp.personkoppling.skapa_flera",
5029     "Text": "Individuell studieplan: Hantera flera - Skapa personkoppling"
5030   },
5031   {
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5033     "Text": "Tillgodor\u00e4knande: Bereda tillgodor\u00e4knande f\u00f6r hel kurs inkl. klarmarkera"
5034   },
5035   {
5036     "I18nNyckel": "systemaktivitet.studiedeltagande.andra_aktivitet_och_finansiering",
5037     "Text": "Studiedeltagande: Hantera studieaktivitet och -finansiering"
5038   },
5039   {
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5041     "Text": "Utbildningsinformation: Hantera avancerad s\u00f6kning"
5042   },
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5044     "I18nNyckel": "kataloginformation.fel.detalkod.administrerande.hanterar_examen",
5045     "Text": "Hanterar examen"
5046   },
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5050 },
5051 {
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5054 },
5055 {
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5058 },
5059 {
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5062 },
5063 {
5064     "I18nNyckel": "commons.fel.grupp.ej_tillganglig",
5065     "Text": "Ej tillg\u00e4nglig"
5066 },
5067 {
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5069     "Text": "Av SCB utarbetad gruppering av kurser. Anv\u00e4ndes f\u006f statistiska \u00e4ndam\u00f6r"
5070 },
5071 {
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5073     "Text": "Studiedeltagande: Dokumentera uppeh\u00e5ll"
5074 },
5075 {
5076     "I18nNyckel": "commons.fel.detaljkod.studiefinansiering",
5077     "Text": "Studiefinansiering"
5078 },
5079 {
5080     "I18nNyckel": "systemaktivitet.studentinformation.nationell.sok.student.extern",
5081     "Text": "Studentinformation: S\u00f6ka student i den gemensamma studenttj\u00e4nsten"
5082 },
5083 {
5084     "I18nNyckel": "systemaktivitet.arendestod.hantera.arendeskyddade.personuppgifter.vid.sokning",
5085     "Text": "Studentinformation: Hantera skyddade personuppgifter vid s\u00f6kning (kompletterande)"
5086 },
5087 {
5088     "I18nNyckel": "kataloginformation.grunddatakategori.planeringsomgang.beskrivning",
5089     "Text": "En m\u00f6rkning som kan anv\u00e4ndas f\u006f att m\u00f6rka upp och identifiera ett u
5090 },
5091 {
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5093     "Text": "Menyval: Min utbildning"
5094 },
5095 {
5096     "I18nNyckel": "kataloginformation.fel.bildtyp",
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5098 },

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5105         "Text": "Studiedeltagande: Ta bort avbrott p\u00e5 kurs"
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5109         "Text": "Utbytesavtalskod"
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5123     {
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5147     {
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5158     },
5159     {
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5189         "Text": "Student"
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5210   },
5211   {
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5217     "Text": "Utbildningsinformation: Redigera attributv\u00e4rden i plan"
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5223   {
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5290 },
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5301     "Text": "Student-Studiedeltagande: Avbrott - dokumentera avbrott"
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5313         "Text": "Resultat: Publicera aktivitetstillf\u00e4lle"
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5317         "Text": "Bilaga borttagen"
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5321         "Text": "Klassifikation av kurs med utg\u00e5ngspunkt i kravet p\u00e5 successiv f\u00f6rdjupning"
5322     },
5323     {
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5325         "Text": "Processuppgiftskonfiguration"
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5329         "Text": "\u00f6rendets understatus"
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5341         "Text": "Uppf\u00f6ljning: L\u00e5s Information"
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5343     {
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5345         "Text": "Till\u00e4t: Student f\u00e5r g\u00f6ra studieval"
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5349         "Text": "Skyddade personuppgifter"
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5353         "Text": "Krav p\u00e5 s\u00e4rskild beh\u00f6righet till h\u00f6gskoleutbildningar som p\u00e5b\u00e4r

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5390     },
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5393         "Text": "Utbildningsinformation: Avveckla utbildning"
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5397         "Text": "Student-Studentinformation: Hantera alternativa inloggningsmetoder"
5398     },
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5426 },
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5429     "Text": "Kontaktuppgifter"
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5433     "Text": "L\u00e4s"
5434 },
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5459 {
5460     "I18nNyckel": "systemaktivitet.studiedeltagande.ta.bort.registrering.efter.studieperiodens.slut.f
5461     "Text": "Studiedeltagande: Ta bort registreringar f\u00f6r flera efter studieperiodens slut (komp
5462 },
5463 {
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5466 },
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5468     "I18nNyckel": "systemaktivitet.common.hantera.flera.lagg.till.studieperiod",
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5487 {
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5490 },
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5493     "Text": "Student-Studentinformation: Hantera kontaktuppgifter"
5494 },
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5497     "Text": "Uppdragsutbildning"
5498 },
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5501     "Text": "Utbytes\u00e5tagande"
5502 },
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5505     "Text": "Verksamhetsroll"
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5511     {
5512         "I18nNyckel": "systemaktivitet.studiedeltagande.las.tillfallesantagningar",
5513         "Text": "Studiedeltagande: L\u00e4sa tillf\u00e4llesantagningar"
5514     },
5515     {
5516         "I18nNyckel": "systemaktivitet.studiedeltagande.registrera.student.pa.delvis.avstangd.period",
5517         "Text": "Studiedeltagande: Registrera p\u00e5 studieperiod som delvis \u00f6verlappas av avst\u00f6p"
5518     },
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5521         "Text": "Anm\u00e4lningsmodell"
5522     },
5523     {
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5525         "Text": "Utbildningsinformation: Modulupps\u00e4ttningsfunktionalitet"
5526     },
5527     {
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5529         "Text": "Denna anteckning kopplas till beslutet"
5530     },
5531     {
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5533         "Text": "Utbildning"
5534     },
5535     {
5536         "I18nNyckel": "systemaktivitet.avgiftshantering.hantera_studieavgiftsbefrielse",
5537         "Text": "Studieavgifter: Hantera betalningsskyldighet per utbildning (kompletterande)"
5538     },
5539     {
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5541         "Text": "\u00e4rende inkommet"
5542     },
5543     {
5544         "I18nNyckel": "arendestod.handelse.meddelande.fran_anvandare",
5545         "Text": "Meddelande till student"
5546     },
5547     {
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5549         "Text": "Anger vilka periodindelningar som kan anv\u00e4ndas f\u00f6r verksamheten. Exempel: \u00f6r"
5550     },
5551     {
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5553         "Text": "Kategori ska anges."
5554     },
5555     {
5556         "I18nNyckel": "commons.domain.studieordning",
5557         "Text": "Studieordning"

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5561         "Text": "Beh\u00f6righet saknas [{0}]. Inloggning med r\u00e4ttighetsniv\u00e5 SWAMID AL2 kr\u00e4vs",
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6007     {
6008         "I18nNyckel": "systemaktivitet.common.basbehorighet",
6009         "Text": "Common: basbeh\u00f6righet f\u00f6r att anv\u00e4nda systemet"
6010     },
6011     {
6012         "I18nNyckel": "commons.domain.regel.utbildningstypsgrupp.forskarutbildning",
6013         "Text": "Forskarniv\u00e5"
6014     },
6015     {
6016         "I18nNyckel": "systemfunktion.id.10058",
```

```
6017     "Text": "Spara externpart p\u00e5 nationell niv\u00e5"
6018 },
6019 {
6020     "I18nNyckel": "commons.domain.utbildningstillfallestyp.programtillfalle",
6021     "Text": "Programtillf\u00e5lle"
6022 },
6023 {
6024     "I18nNyckel": "systemfunktion.id.10059",
6025     "Text": "Spara successiv f\u00f6rdjupning p\u00e5 lokal niv\u00e5"
6026 },
6027 {
6028     "I18nNyckel": "systemaktivitet.studiedeltagande.dokumentera_avbrott_pa_kurs",
6029     "Text": "Studiedeltagande: Dokumentera avbrott p\u00e5 kurs"
6030 },
6031 {
6032     "I18nNyckel": "systemaktivitet.isp.soka_isp",
6033     "Text": "Individuell studieplan: S\u00f6ka individuell studieplan"
6034 },
6035 {
6036     "I18nNyckel": "systemfunktion.id.10060",
6037     "Text": "Spara successiv f\u00f6rdjupning p\u00e5 nationell niv\u00e5"
6038 },
6039 {
6040     "I18nNyckel": "systemaktivitet.kataloginformation.organisation.skriv",
6041     "Text": "Kataloginformation: Hantera l\u00e5ros\u00e4tets organisationsstruktur"
6042 },
6043 {
6044     "I18nNyckel": "commons.domain.regel.sjalvstandig",
6045     "Text": "Sj\u00e4lvst\u00e4ndig"
6046 },
6047 {
6048     "I18nNyckel": "systemfunktion.id.10065",
6049     "Text": "Spara lokalm\u00e4rkning p\u00e5 lokal niv\u00e5"
6050 },
6051 {
6052     "I18nNyckel": "systemfunktion.id.10066",
6053     "Text": "Spara studiefinansiering p\u00e5 nationell niv\u00e5"
6054 },
6055 {
6056     "I18nNyckel": "systemfunktion.id.10067",
6057     "Text": "Spara studiefinansiering p\u00e5 lokal niv\u00e5"
6058 },
6059 {
6060     "I18nNyckel": "systemfunktion.id.10068",
6061     "Text": "Spara nationell examensgrupp"
6062 },
6063 {
6064     "I18nNyckel": "systemfunktion.id.10061",
6065     "Text": "Spara studielokalisering p\u00e5 lokal niv\u00e5"
6066 },
6067 {
```

```
6068     "I18nNyckel": "systemfunktion.id.10062",
6069     "Text": "Spara enhet p\u00e5 nationell niv\u00e5"
6070 },
6071 {
6072     "I18nNyckel": "systemfunktion.id.10063",
6073     "Text": "Spara utbytesprogram p\u00e5 nationell niv\u00e5"
6074 },
6075 {
6076     "I18nNyckel": "systemfunktion.id.10064",
6077     "Text": "Spara utbytesprogram p\u00e5 lokal niv\u00e5"
6078 },
6079 {
6080     "I18nNyckel": "systemaktivitet.arendestod.hantera.arend.avliden.vid.sokning",
6081     "Text": "Studentinformation: Hantera avliden\u004rend vid s\u00f6kning (kompletterande)"
6082 },
6083 {
6084     "I18nNyckel": "systemfunktion.id.10069",
6085     "Text": "Spara undervisningsspr\u00e5k p\u00e5 nationell niv\u00e5"
6086 },
6087 {
6088     "I18nNyckel": "systemaktivitet.utbildningsinformation.makulera_litteraturlista",
6089     "Text": "Utbildningsinformation: Makulera litteraturlista"
6090 },
6091 {
6092     "I18nNyckel": "systemaktivitet.kataloginformation.grunddata.administrera.lokal",
6093     "Text": "Kataloginformation: Hantera grunddata - lokal r\u004ttighetsniv\u00e5"
6094 },
6095 {
6096     "I18nNyckel": "systemaktivitet.kataloginformation.behorighet.anvandare.skriv",
6097     "Text": "Beh\u00f6righetshantering: Hantera anv\u004ndare - lokal r\u004ttighetsniv\u00e5"
6098 },
6099 {
6100     "I18nNyckel": "commons.domain.studieperiod",
6101     "Text": "Studieperiod"
6102 },
6103 {
6104     "I18nNyckel": "kataloginformation.grunddatakategori.undervisningsform",
6105     "Text": "Undervisningsform"
6106 },
6107 {
6108     "I18nNyckel": "systemaktivitet.studiedeltagande.pingintegration_lasa_ej_paborjade_tillfallesantag",
6109     "Text": "Studiedeltagande: Pingintegration l\u00e5s ej p\u00e5b\u00f6rjade tillf\u00e4llesantagn
6110 },
6111 {
6112     "I18nNyckel": "systemfunktion.id.10071",
6113     "Text": "Spara organisationsenhetstyp p\u00e5 nationell niv\u00e5"
6114 },
6115 {
6116     "I18nNyckel": "systemaktivitet.examen.administrera.lokal.installning.modul.i.bevis",
6117     "Text": "Bevis: Hantera inst\u00e4llningar f\u00f6r moduler i bevis"
6118 },
```

```

6119     {
6120         "I18nNyckel": "arendestod.fel.detaljkod.handlaggare",
6121         "Text": "Handl\u00e4ggare"
6122     },
6123     {
6124         "I18nNyckel": "systemfunktion.id.10076",
6125         "Text": "Spara utbildningsregel p\u00e5 nationell niv\u00e5"
6126     },
6127     {
6128         "I18nNyckel": "systemfunktion.id.10077",
6129         "Text": "Spara orsak till ej avgitsskyldig p\u00e5 nationell niv\u00e5"
6130     },
6131     {
6132         "I18nNyckel": "systemfunktion.id.10078",
6133         "Text": "Spara orsak till avst\u00e4ngning p\u00e5 nationell niv\u00e5"
6134     },
6135     {
6136         "I18nNyckel": "commons.domain.larosate.cth",
6137         "Text": "Chalmers tekniska h\u00f6gskola"
6138     },
6139     {
6140         "I18nNyckel": "systemfunktion.id.10079",
6141         "Text": "Spara tj\u00e4nstekonfigurationsobjekt p\u00e5 lokal niv\u00e5"
6142     },
6143     {
6144         "I18nNyckel": "systemfunktion.id.10073",
6145         "Text": "Spara konfiguration av autentisering p\u00e5 lokal niv\u00e5"
6146     },
6147     {
6148         "I18nNyckel": "systemaktivitet.utbildningsinformation.redigera_publicerade_attrIBUTVARDEN_I_PLAN",
6149         "Text": "Utbildningsinformation: Redigera publicerade attributv\u00e4rden i plan"
6150     },
6151     {
6152         "I18nNyckel": "systemfunktion.id.10074",
6153         "Text": "H\u00e4mta konfiguration av autentisering p\u00e5 lokal niv\u00e5"
6154     }
6155 ]
6156 }

```

20.6 svenskorter_JSON

```

672 <LadokSession data methods 126b>+=
    # added by GQMJr
    def svenskorter_JSON(self):
        """
        Returns a dictionary of Swedish places with their KommunID.
        """
        r = self.session.get(
            url=self.base_gui_proxy_url + '/kataloginformation/internal/grunddata/svenskort',
            headers=self.headers).json()

```

return r

Let's add a test. This should return a dictionary.

```
673 <test functions 126a>+=
def test_svenskorter_JSON():
    r = ladok.svenskorter_JSON()
    assert type(r) == dict
```

This code is used in chunk 121.

The output looks like this:

```
1 {
2   "SvenskOrt": [
3     {
4       "Benamning": {
5         "sv": "Gnosj\u00f6",
6         "en": "Gnosj\u00f6"
7       },
8       "Beskrivning": {},
9       "Dolt": false,
10      "Giltighetsperiod": {},
11      "ID": "70",
12      "Kod": "T1488",
13      "KommunID": "58",
14      "LarosateID": -1
15    },
16    {
17      "Benamning": {
18        "sv": "Mullsj\u00f6",
19        "en": "Mullsj\u00f6"
20      },
21      "Beskrivning": {},
22      "Dolt": false,
23      "Giltighetsperiod": {},
24      "ID": "71",
25      "Kod": "T5380",
26      "KommunID": "59",
27      "LarosateID": -1
28    },
29    {
30      "Benamning": {
31        "sv": "Habo",
32        "en": "Habo"
33      },
34      "Beskrivning": {},
35      "Dolt": false,
36      "Giltighetsperiod": {},
37      "ID": "72",
38      "Kod": "T5284",
39      "KommunID": "60",
40      "LarosateID": -1
41    },
42  ],
43 }
```



```

42     {
43         "Benamning": {
44             "sv": "Anderstorp",
45             "en": "Anderstorp"
46         },
47         "Beskrivning": {},
48         "Dolt": false,
49         "Giltighetsperiod": {},
50         "ID": "73",
51         "Kod": "T1400",
52         "KommunID": "61",
53         "LarosateID": -1
54     },
55     {
56         "Benamning": {
57             "sv": "Gislaved",
58             "en": "Gislaved"
59         },
60         "Beskrivning": {},
61         "Dolt": false,
62         "Giltighetsperiod": {},
63         "ID": "74",
64         "Kod": "T1484",
65         "KommunID": "61",
66         "LarosateID": -1
67     },
68     {
69         "Benamning": {
70             "sv": "Vaggeryd",
71             "en": "Vaggeryd"
72         },
73         "Beskrivning": {},
74         "Dolt": false,
75         "Giltighetsperiod": {},
76         "ID": "75",
77         "Kod": "T1720",
78         "KommunID": "62",
79         "LarosateID": -1
80     },
81     {
82         "Benamning": {
83             "sv": "Gr\u00e4nna",
84             "en": "Gr\u00e4nna"
85         },
86         "Beskrivning": {},
87         "Dolt": false,
88         "Giltighetsperiod": {},
89         "ID": "76",
90         "Kod": "T1500",
91         "KommunID": "63",
92         "LarosateID": -1

```

```

93     },
94     {
95         "Benamning": {
96             "sv": "J\u00f6nk\u00f6ping",
97             "en": "J\u00f6nk\u00f6ping"
98         },
99         "Beskrivning": {},
100         "Dolt": false,
101         "Giltighetsperiod": {},
102         "ID": "77",
103         "Kod": "T1544",
104         "KommunID": "63",
105         "LarosateID": -1
106     },
107     {
108         "Benamning": {
109             "sv": "N\u00e4ssj\u00f6",
110             "en": "N\u00e4ssj\u00f6"
111         },
112         "Beskrivning": {},
113         "Dolt": false,
114         "Giltighetsperiod": {},
115         "ID": "78",
116         "Kod": "T1608",
117         "KommunID": "64",
118         "LarosateID": -1
119     },
120     {
121         "Benamning": {
122             "sv": "V\u00e4rnamo",
123             "en": "V\u00e4rnamo"
124         },
125         "Beskrivning": {},
126         "Dolt": false,
127         "Giltighetsperiod": {},
128         "ID": "79",
129         "Kod": "T1732",
130         "KommunID": "65",
131         "LarosateID": -1
132     },
133     {
134         "Benamning": {
135             "sv": "S\u00e4vsj\u00f6",
136             "en": "S\u00e4vsj\u00f6"
137         },
138         "Beskrivning": {},
139         "Dolt": false,
140         "Giltighetsperiod": {},
141         "ID": "80",
142         "Kod": "T1688",
143         "KommunID": "66",

```

```

144     "LarosateID": -1
145 },
146 {
147     "Benamning": {
148         "sv": "Vetlanda",
149         "en": "Vetlanda"
150     },
151     "Beskrivning": {},
152     "Dolt": false,
153     "Giltighetsperiod": {},
154     "ID": "81",
155     "Kod": "T1724",
156     "KommunID": "67",
157     "LarosateID": -1
158 },
159 {
160     "Benamning": {
161         "sv": "Eksj\u00f6",
162         "en": "Eksj\u00f6"
163     },
164     "Beskrivning": {},
165     "Dolt": false,
166     "Giltighetsperiod": {},
167     "ID": "82",
168     "Kod": "T1460",
169     "KommunID": "68",
170     "LarosateID": -1
171 },
172 {
173     "Benamning": {
174         "sv": "Tran\u00e5",
175         "en": "Tran\u00e5"
176     },
177     "Beskrivning": {},
178     "Dolt": false,
179     "Giltighetsperiod": {},
180     "ID": "83",
181     "Kod": "T1700",
182     "KommunID": "69",
183     "LarosateID": -1
184 },
185 {
186     "Benamning": {
187         "sv": "\u00c5seda",
188         "en": "\u00c5seda"
189     },
190     "Beskrivning": {},
191     "Dolt": false,
192     "Giltighetsperiod": {},
193     "ID": "84",
194     "Kod": "T2036",

```

```
195     "KommunID": "70",
196     "LarosateID": -1
197 },
198 {
199     "Benamning": {
200         "sv": "Lessebo",
201         "en": "Lessebo"
202     },
203     "Beskrivning": {},
204     "Dolt": false,
205     "Giltighetsperiod": {},
206     "ID": "85",
207     "Kod": "T1916",
208     "KommunID": "71",
209     "LarosateID": -1
210 },
211 {
212     "Benamning": {
213         "sv": "Tingsryd",
214         "en": "Tingsryd"
215     },
216     "Beskrivning": {},
217     "Dolt": false,
218     "Giltighetsperiod": {},
219     "ID": "86",
220     "Kod": "T1992",
221     "KommunID": "72",
222     "LarosateID": -1
223 },
224 {
225     "Benamning": {
226         "sv": "Alvesta",
227         "en": "Alvesta"
228     },
229     "Beskrivning": {},
230     "Dolt": false,
231     "Giltighetsperiod": {},
232     "ID": "87",
233     "Kod": "T1808",
234     "KommunID": "73",
235     "LarosateID": -1
236 },
237 {
238     "Benamning": {
239         "sv": "\u00c4lmhult",
240         "en": "\u00c4lmhult"
241     },
242     "Beskrivning": {},
243     "Dolt": false,
244     "Giltighetsperiod": {},
245     "ID": "88",
```

```
246     "Kod": "T2048",
247     "KommunID": "74",
248     "LarosateID": -1
249 },
250 {
251     "Benamning": {
252         "sv": "Markaryd",
253         "en": "Markaryd"
254     },
255     "Beskrivning": {},
256     "Dolt": false,
257     "Giltighetsperiod": {},
258     "ID": "89",
259     "Kod": "T1940",
260     "KommunID": "75",
261     "LarosateID": -1
262 },
263 {
264     "Benamning": {
265         "sv": "Str\u00f6msn\u00e4sbruk",
266         "en": "Str\u00f6msn\u00e4sbruk"
267     },
268     "Beskrivning": {},
269     "Dolt": false,
270     "Giltighetsperiod": {},
271     "ID": "90",
272     "Kod": "T1980",
273     "KommunID": "75",
274     "LarosateID": -1
275 },
276 {
277     "Benamning": {
278         "sv": "V\u00e4rmland\u00f6",
279         "en": "V\u00e4rmland\u00f6"
280     },
281     "Beskrivning": {},
282     "Dolt": false,
283     "Giltighetsperiod": {},
284     "ID": "91",
285     "Kod": "T2024",
286     "KommunID": "76",
287     "LarosateID": -1
288 },
289 {
290     "Benamning": {
291         "sv": "Ljungby",
292         "en": "Ljungby"
293     },
294     "Beskrivning": {},
295     "Dolt": false,
296     "Giltighetsperiod": {},
```

```
297     "ID": "92",
298     "Kod": "T1936",
299     "KommunID": "77",
300     "LarosateID": -1
301 },
302 {
303     "Benamning": {
304         "sv": "Halmstad",
305         "en": "Halmstad"
306     },
307     "Beskrivning": {},
308     "Dolt": false,
309     "Giltighetsperiod": {},
310     "ID": "158",
311     "Kod": "T3960",
312     "KommunID": "130",
313     "LarosateID": -1
314 },
315 {
316     "Benamning": {
317         "sv": "Laholm",
318         "en": "Laholm"
319     },
320     "Beskrivning": {},
321     "Dolt": false,
322     "Giltighetsperiod": {},
323     "ID": "159",
324     "Kod": "T4028",
325     "KommunID": "131",
326     "LarosateID": -1
327 },
328 {
329     "Benamning": {
330         "sv": "Falkenberg",
331         "en": "Falkenberg"
332     },
333     "Beskrivning": {},
334     "Dolt": false,
335     "Giltighetsperiod": {},
336     "ID": "160",
337     "Kod": "T3920",
338     "KommunID": "132",
339     "LarosateID": -1
340 },
341 {
342     "Benamning": {
343         "sv": "Varberg",
344         "en": "Varberg"
345     },
346     "Beskrivning": {},
347     "Dolt": false,
```

```

348     "Giltighetsperiod": {},
349     "ID": "161",
350     "Kod": "T4156",
351     "KommunID": "133",
352     "LarosateID": -1
353 },
354 {
355     "Benamning": {
356         "sv": "Kungsbacka",
357         "en": "Kungsbacka"
358     },
359     "Beskrivning": {},
360     "Dolt": false,
361     "Giltighetsperiod": {},
362     "ID": "162",
363     "Kod": "T4008",
364     "KommunID": "134",
365     "LarosateID": -1
366 },
367 {
368     "Benamning": {
369         "sv": "H\u00e4rryda",
370         "en": "H\u00e4rryda"
371     },
372     "Beskrivning": {},
373     "Dolt": false,
374     "Giltighetsperiod": {},
375     "ID": "163",
376     "Kod": "T4424",
377     "KommunID": "135",
378     "LarosateID": -1
379 },
380 {
381     "Benamning": {
382         "sv": "Landvetter",
383         "en": "Landvetter"
384     },
385     "Beskrivning": {},
386     "Dolt": false,
387     "Giltighetsperiod": {},
388     "ID": "164",
389     "Kod": "T4484",
390     "KommunID": "135",
391     "LarosateID": -1
392 },
393 {
394     "Benamning": {
395         "sv": "M\u00f6lnlycke",
396         "en": "M\u00f6lnlycke"
397     },
398     "Beskrivning": {},

```

```

399     "Dolt": false,
400     "Giltighetsperiod": {},
401     "ID": "165",
402     "Kod": "T4520",
403     "KommunID": "135",
404     "LarosateID": -1
405 },
406 {
407     "Benamning": {
408         "sv": "Jonsered",
409         "en": "Jonsered"
410     },
411     "Beskrivning": {},
412     "Dolt": false,
413     "Giltighetsperiod": {},
414     "ID": "166",
415     "Kod": "T4432",
416     "KommunID": "136",
417     "LarosateID": -1
418 },
419 {
420     "Benamning": {
421         "sv": "\u00d6cker\u00f6",
422         "en": "\u00d6cker\u00f6"
423     },
424     "Beskrivning": {},
425     "Dolt": false,
426     "Giltighetsperiod": {},
427     "ID": "167",
428     "Kod": "T4628",
429     "KommunID": "137",
430     "LarosateID": -1
431 },
432 {
433     "Benamning": {
434         "sv": "Stenungsund",
435         "en": "Stenungsund"
436     },
437     "Beskrivning": {},
438     "Dolt": false,
439     "Giltighetsperiod": {},
440     "ID": "168",
441     "Kod": "T4568",
442     "KommunID": "138",
443     "LarosateID": -1
444 },
445 {
446     "Benamning": {
447         "sv": "Sk\u00e4rhamn",
448         "en": "Sk\u00e4rhamn"
449     },

```



```
450     "Beskrivning": {},
451     "Dolt": false,
452     "Giltighetsperiod": {},
453     "ID": "169",
454     "Kod": "T4560",
455     "KommunID": "139",
456     "LarosateID": -1
457 },
458 {
459     "Benamning": {
460         "sv": "Hen\u00e5n",
461         "en": "Hen\u00e5n"
462     },
463     "Beskrivning": {},
464     "Dolt": false,
465     "Giltighetsperiod": {},
466     "ID": "170",
467     "Kod": "T4384",
468     "KommunID": "140",
469     "LarosateID": -1
470 },
471 {
472     "Benamning": {
473         "sv": "Kungshamn",
474         "en": "Kungshamn"
475     },
476     "Beskrivning": {},
477     "Dolt": false,
478     "Giltighetsperiod": {},
479     "ID": "171",
480     "Kod": "T4448",
481     "KommunID": "141",
482     "LarosateID": -1
483 },
484 {
485     "Benamning": {
486         "sv": "Munkedal",
487         "en": "Munkedal"
488     },
489     "Beskrivning": {},
490     "Dolt": false,
491     "Giltighetsperiod": {},
492     "ID": "172",
493     "Kod": "T4512",
494     "KommunID": "142",
495     "LarosateID": -1
496 },
497 {
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916         "en": "Stockholm (Huddinge)"
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918     "Beskrivning": {},
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929         "en": "Stockholm (Botkyrka)"
930     },
931     "Beskrivning": {},
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955         "en": "Stockholm (Sundbyberg)"
956     },
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1059         "en": "Nyn\u00e4shamn"
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1125     },
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1228         "en": "Öxel\u00f6sund"
1229     },
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1241         "en": "Flen"
1242     },
1243     "Beskrivning": {},
1244     "Dolt": false,
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1246     "ID": "46",
1247     "Kod": "T0744",
1248     "KommunID": "39",
1249     "LarosateID": -1
1250 },
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1253         "sv": "H\u00f6gsby",
1254         "en": "H\u00f6gsby"
1255     },
1256     "Beskrivning": {},
1257     "Dolt": false,
1258     "Giltighetsperiod": {},
1259     "ID": "93",
1260     "Kod": "T2264",
1261     "KommunID": "78",
1262     "LarosateID": -1
1263 },
1264 {
1265     "Benamning": {

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1266         "sv": "Tors\u00e5s",
1267         "en": "Tors\u00e5s"
1268     },
1269     "Beskrivning": {},
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1274     "KommunID": "79",
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1281     },
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1283     "Dolt": false,
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1293         "en": "M\u00f6rbyl\u00e5nga"
1294     },
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1296     "Dolt": false,
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1298     "ID": "96",
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1300     "KommunID": "80",
1301     "LarosateID": -1
1302 },
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1305         "sv": "Hultsfred",
1306         "en": "Hultsfred"
1307     },
1308     "Beskrivning": {},
1309     "Dolt": false,
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1311     "ID": "97",
1312     "Kod": "T2260",
1313     "KommunID": "81",
1314     "LarosateID": -1
1315 },
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1317     "Benamning": {
1318       "sv": "Virserum",
1319       "en": "Virserum"
1320     },
1321     "Beskrivning": {},
1322     "Dolt": false,
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1324     "ID": "98",
1325     "Kod": "T2464",
1326     "KommunID": "81",
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1328   },
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1330     "Benamning": {
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1332       "en": "M\u00f6nster\u00e5s"
1333     },
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1335     "Dolt": false,
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1337     "ID": "99",
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1341   },
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1344       "sv": "Emmaboda",
1345       "en": "Emmaboda"
1346     },
1347     "Beskrivning": {},
1348     "Dolt": false,
1349     "Giltighetsperiod": {},
1350     "ID": "100",
1351     "Kod": "T2160",
1352     "KommunID": "83",
1353     "LarosateID": -1
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1357       "sv": "Kalmar",
1358       "en": "Kalmar"
1359     },
1360     "Beskrivning": {},
1361     "Dolt": false,
1362     "Giltighetsperiod": {},
1363     "ID": "101",
1364     "Kod": "T2280",
1365     "KommunID": "84",
1366     "LarosateID": -1
1367   },
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1372         },
1373         "Beskrivning": {},
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1375         "Giltighetsperiod": {},
1376         "ID": "102",
1377         "Kod": "T2352",
1378         "KommunID": "85",
1379         "LarosateID": -1
1380     },
1381     {
1382         "Benamning": {
1383             "sv": "Oskarshamn",
1384             "en": "Oskarshamn"
1385         },
1386         "Beskrivning": {},
1387         "Dolt": false,
1388         "Giltighetsperiod": {},
1389         "ID": "103",
1390         "Kod": "T2360",
1391         "KommunID": "86",
1392         "LarosateID": -1
1393     },
1394     {
1395         "Benamning": {
1396             "sv": "Gamleby",
1397             "en": "Gamleby"
1398         },
1399         "Beskrivning": {},
1400         "Dolt": false,
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1402         "ID": "104",
1403         "Kod": "T2212",
1404         "KommunID": "87",
1405         "LarosateID": -1
1406     },
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1408         "Benamning": {
1409             "sv": "V\u00e4stervik",
1410             "en": "V\u00e4stervik"
1411         },
1412         "Beskrivning": {},
1413         "Dolt": false,
1414         "Giltighetsperiod": {},
1415         "ID": "105",
1416         "Kod": "T2472",
1417         "KommunID": "87",
1418         "LarosateID": -1

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1423             "en": "Vimmerby"
1424         },
1425         "Beskrivning": {},
1426         "Dolt": false,
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1429         "Kod": "T2460",
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1435             "sv": "Borgholm",
1436             "en": "Borgholm"
1437         },
1438         "Beskrivning": {},
1439         "Dolt": false,
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1447         "Benamning": {
1448             "sv": "Visby",
1449             "en": "Visby"
1450         },
1451         "Beskrivning": {},
1452         "Dolt": false,
1453         "Giltighetsperiod": {},
1454         "ID": "108",
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1456         "KommunID": "90",
1457         "LarosateID": -1
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1462             "en": "Olofstr\u00f6m"
1463         },
1464         "Beskrivning": {},
1465         "Dolt": false,
1466         "Giltighetsperiod": {},
1467         "ID": "109",
1468         "Kod": "T2720",
1469         "KommunID": "91",
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1471 },
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1474         "sv": "Karlskrona",
1475         "en": "Karlskrona"
1476     },
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1478     "Dolt": false,
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1480     "ID": "110",
1481     "Kod": "T2680",
1482     "KommunID": "92",
1483     "LarosateID": -1
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1487         "sv": "Ronneby",
1488         "en": "Ronneby"
1489     },
1490     "Beskrivning": {},
1491     "Dolt": false,
1492     "Giltighetsperiod": {},
1493     "ID": "111",
1494     "Kod": "T2732",
1495     "KommunID": "93",
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1499     "Benamning": {
1500         "sv": "Karlshamn",
1501         "en": "Karlshamn"
1502     },
1503     "Beskrivning": {},
1504     "Dolt": false,
1505     "Giltighetsperiod": {},
1506     "ID": "112",
1507     "Kod": "T2676",
1508     "KommunID": "94",
1509     "LarosateID": -1
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1514         "en": "S\u00f6lvesborg"
1515     },
1516     "Beskrivning": {},
1517     "Dolt": false,
1518     "Giltighetsperiod": {},
1519     "ID": "113",
1520     "Kod": "T2752",
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1527         "en": "Sval\u00f6v"
1528     },
1529     "Beskrivning": {},
1530     "Dolt": false,
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1532     "ID": "114",
1533     "Kod": "T3716",
1534     "KommunID": "96",
1535     "LarosateID": -1
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1539         "sv": "Hj\u00e4rup",
1540         "en": "Hj\u00e4rup"
1541     },
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1543     "Dolt": false,
1544     "Giltighetsperiod": {},
1545     "ID": "115",
1546     "Kod": "T3460",
1547     "KommunID": "97",
1548     "LarosateID": -1
1549 },
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1551     "Benamning": {
1552         "sv": "Nossebro",
1553         "en": "Nossebro"
1554     },
1555     "Beskrivning": {},
1556     "Dolt": false,
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1560     "KommunID": "151",
1561     "LarosateID": -1
1562 },
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1565         "sv": "Karlsborg",
1566         "en": "Karlsborg"
1567     },
1568     "Beskrivning": {},
1569     "Dolt": false,
1570     "Giltighetsperiod": {},
1571     "ID": "182",

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1574     "LarosateID": -1
1575 },
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1577     "Benamning": {
1578         "sv": "Hova",
1579         "en": "Hova"
1580     },
1581     "Beskrivning": {},
1582     "Dolt": false,
1583     "Giltighetsperiod": {},
1584     "ID": "183",
1585     "Kod": "T5300",
1586     "KommunID": "153",
1587     "LarosateID": -1
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1592         "en": "Tranemo"
1593     },
1594     "Beskrivning": {},
1595     "Dolt": false,
1596     "Giltighetsperiod": {},
1597     "ID": "184",
1598     "Kod": "T5080",
1599     "KommunID": "154",
1600     "LarosateID": -1
1601 },
1602 {
1603     "Benamning": {
1604         "sv": "Bengtsfors",
1605         "en": "Bengtsfors"
1606     },
1607     "Beskrivning": {},
1608     "Dolt": false,
1609     "Giltighetsperiod": {},
1610     "ID": "185",
1611     "Kod": "T4720",
1612     "KommunID": "155",
1613     "LarosateID": -1
1614 },
1615 {
1616     "Benamning": {
1617         "sv": "Mellerud",
1618         "en": "Mellerud"
1619     },
1620     "Beskrivning": {},
1621     "Dolt": false,
1622     "Giltighetsperiod": {},
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1625     "KommunID": "156",
1626     "LarosateID": -1
1627 },
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1630         "sv": "Lilla Edet",
1631         "en": "Lilla Edet"
1632     },
1633     "Beskrivning": {},
1634     "Dolt": false,
1635     "Giltighetsperiod": {},
1636     "ID": "187",
1637     "Kod": "T4924",
1638     "KommunID": "157",
1639     "LarosateID": -1
1640 },
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1642     "Benamning": {
1643         "sv": "Kinna",
1644         "en": "Kinna"
1645     },
1646     "Beskrivning": {},
1647     "Dolt": false,
1648     "Giltighetsperiod": {},
1649     "ID": "188",
1650     "Kod": "T4912",
1651     "KommunID": "158",
1652     "LarosateID": -1
1653 },
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1657         "en": "Svenljunga"
1658     },
1659     "Beskrivning": {},
1660     "Dolt": false,
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1662     "ID": "189",
1663     "Kod": "T5060",
1664     "KommunID": "159",
1665     "LarosateID": -1
1666 },
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1669         "sv": "Herrljunga",
1670         "en": "Herrljunga"
1671     },
1672     "Beskrivning": {},
1673     "Dolt": false,
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1675     "ID": "190",
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1677     "KommunID": "160",
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1683         "en": "Vara"
1684     },
1685     "Beskrivning": {},
1686     "Dolt": false,
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1689     "Kod": "T5500",
1690     "KommunID": "161",
1691     "LarosateID": -1
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1695         "sv": "G\u00f6tene",
1696         "en": "G\u00f6tene"
1697     },
1698     "Beskrivning": {},
1699     "Dolt": false,
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1703     "KommunID": "162",
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1708         "sv": "Tibro",
1709         "en": "Tibro"
1710     },
1711     "Beskrivning": {},
1712     "Dolt": false,
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1714     "ID": "193",
1715     "Kod": "T5456",
1716     "KommunID": "163",
1717     "LarosateID": -1
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1722         "en": "T\u00f6reboda"
1723     },
1724     "Beskrivning": {},

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1735         "en": "G\u00f6teborg"
1736     },
1737     "Beskrivning": {},
1738     "Dolt": false,
1739     "Giltighetsperiod": {},
1740     "ID": "195",
1741     "Kod": "T4368",
1742     "KommunID": "165",
1743     "LarosateID": -1
1744 },
1745 {
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1748         "en": "G\u00f6teborg (M\u00f6lndal)"
1749     },
1750     "Beskrivning": {},
1751     "Dolt": false,
1752     "Giltighetsperiod": {},
1753     "ID": "196",
1754     "Kod": "L1481",
1755     "KommunID": "166",
1756     "LarosateID": -1
1757 },
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1759     "Benamning": {
1760         "sv": "Kung\u00e4lv",
1761         "en": "Kung\u00e4lv"
1762     },
1763     "Beskrivning": {},
1764     "Dolt": false,
1765     "Giltighetsperiod": {},
1766     "ID": "197",
1767     "Kod": "T4452",
1768     "KommunID": "167",
1769     "LarosateID": -1
1770 },
1771 {
1772     "Benamning": {
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1774         "en": "Lysekil"
1775     },

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1780     "Kod": "T4496",
1781     "KommunID": "168",
1782     "LarosateID": -1
1783 },
1784 {
1785     "Benamning": {
1786         "sv": "Uddevalla",
1787         "en": "Uddevalla"
1788     },
1789     "Beskrivning": {},
1790     "Dolt": false,
1791     "Giltighetsperiod": {},
1792     "ID": "199",
1793     "Kod": "T4608",
1794     "KommunID": "169",
1795     "LarosateID": -1
1796 },
1797 {
1798     "Benamning": {
1799         "sv": "Str\u00f6mstad",
1800         "en": "Str\u00f6mstad"
1801     },
1802     "Beskrivning": {},
1803     "Dolt": false,
1804     "Giltighetsperiod": {},
1805     "ID": "200",
1806     "Kod": "T4584",
1807     "KommunID": "170",
1808     "LarosateID": -1
1809 },
1810 {
1811     "Benamning": {
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1813         "en": "V\u00e4rnersborg"
1814     },
1815     "Beskrivning": {},
1816     "Dolt": false,
1817     "Giltighetsperiod": {},
1818     "ID": "201",
1819     "Kod": "T5132",
1820     "KommunID": "171",
1821     "LarosateID": -1
1822 },
1823 {
1824     "Benamning": {
1825         "sv": "Trollh\u00e4ttan",
1826         "en": "Trollh\u00e4ttan"
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1827     },
1828     "Beskrivning": {},
1829     "Dolt": false,
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1831     "ID": "202",
1832     "Kod": "T5084",
1833     "KommunID": "172",
1834     "LarosateID": -1
1835 },
1836 {
1837     "Benamning": {
1838         "sv": "Alings\u00e5s",
1839         "en": "Alings\u00e5s"
1840     },
1841     "Beskrivning": {},
1842     "Dolt": false,
1843     "Giltighetsperiod": {},
1844     "ID": "203",
1845     "Kod": "T4700",
1846     "KommunID": "173",
1847     "LarosateID": -1
1848 },
1849 {
1850     "Benamning": {
1851         "sv": "Fagersta",
1852         "en": "Fagersta"
1853     },
1854     "Beskrivning": {},
1855     "Dolt": false,
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1858     "Kod": "T6212",
1859     "KommunID": "219",
1860     "LarosateID": -1
1861 },
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1864         "sv": "K\u00f6ping",
1865         "en": "K\u00f6ping"
1866     },
1867     "Beskrivning": {},
1868     "Dolt": false,
1869     "Giltighetsperiod": {},
1870     "ID": "251",
1871     "Kod": "T6268",
1872     "KommunID": "220",
1873     "LarosateID": -1
1874 },
1875 {
1876     "Benamning": {
1877         "sv": "Arboga",
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1878         "en": "Arboga"
1879     },
1880     "Beskrivning": {},
1881     "Dolt": false,
1882     "Giltighetsperiod": {},
1883     "ID": "252",
1884     "Kod": "T6200",
1885     "KommunID": "221",
1886     "LarosateID": -1
1887 },
1888 {
1889     "Benamning": {
1890         "sv": "Vansbro",
1891         "en": "Vansbro"
1892     },
1893     "Beskrivning": {},
1894     "Dolt": false,
1895     "Giltighetsperiod": {},
1896     "ID": "253",
1897     "Kod": "T6828",
1898     "KommunID": "222",
1899     "LarosateID": -1
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1903         "sv": "Malung",
1904         "en": "Malung"
1905     },
1906     "Beskrivning": {},
1907     "Dolt": false,
1908     "Giltighetsperiod": {},
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1910     "Kod": "T6636",
1911     "KommunID": "223",
1912     "LarosateID": -1
1913 },
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1917         "en": "Gagnef"
1918     },
1919     "Beskrivning": {},
1920     "Dolt": false,
1921     "Giltighetsperiod": {},
1922     "ID": "255",
1923     "Kod": "T6528",
1924     "KommunID": "224",
1925     "LarosateID": -1
1926 },
1927 {
1928     "Benamning": {

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1930         "en": "Leksand"
1931     },
1932     "Beskrivning": {},
1933     "Dolt": false,
1934     "Giltighetsperiod": {},
1935     "ID": "256",
1936     "Kod": "T6608",
1937     "KommunID": "225",
1938     "LarosateID": -1
1939 },
1940 {
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1942         "sv": "R\u00e4ttvik",
1943         "en": "R\u00e4ttvik"
1944     },
1945     "Beskrivning": {},
1946     "Dolt": false,
1947     "Giltighetsperiod": {},
1948     "ID": "257",
1949     "Kod": "T6716",
1950     "KommunID": "226",
1951     "LarosateID": -1
1952 },
1953 {
1954     "Benamning": {
1955         "sv": "Orsa",
1956         "en": "Orsa"
1957     },
1958     "Beskrivning": {},
1959     "Dolt": false,
1960     "Giltighetsperiod": {},
1961     "ID": "258",
1962     "Kod": "T6696",
1963     "KommunID": "227",
1964     "LarosateID": -1
1965 },
1966 {
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1968         "sv": "\u00c4lvdalen",
1969         "en": "\u00c4lvdalen"
1970     },
1971     "Beskrivning": {},
1972     "Dolt": false,
1973     "Giltighetsperiod": {},
1974     "ID": "259",
1975     "Kod": "T6896",
1976     "KommunID": "228",
1977     "LarosateID": -1
1978 },
1979 {

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1980     "Benamning": {
1981         "sv": "Smedjebacken",
1982         "en": "Smedjebacken"
1983     },
1984     "Beskrivning": {},
1985     "Dolt": false,
1986     "Giltighetsperiod": {},
1987     "ID": "260",
1988     "Kod": "T6744",
1989     "KommunID": "229",
1990     "LarosateID": -1
1991 },
1992 {
1993     "Benamning": {
1994         "sv": "Mora",
1995         "en": "Mora"
1996     },
1997     "Beskrivning": {},
1998     "Dolt": false,
1999     "Giltighetsperiod": {},
2000     "ID": "261",
2001     "Kod": "T6648",
2002     "KommunID": "230",
2003     "LarosateID": -1
2004 },
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2006     "Benamning": {
2007         "sv": "Falun",
2008         "en": "Falun"
2009     },
2010     "Beskrivning": {},
2011     "Dolt": false,
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2013     "ID": "262",
2014     "Kod": "T6504",
2015     "KommunID": "231",
2016     "LarosateID": -1
2017 },
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2020         "sv": "Borl\u00e4nge",
2021         "en": "Borl\u00e4nge"
2022     },
2023     "Beskrivning": {},
2024     "Dolt": false,
2025     "Giltighetsperiod": {},
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2027     "Kod": "T6444",
2028     "KommunID": "232",
2029     "LarosateID": -1
2030 },

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2033             "sv": "S\u00e4ter",
2034             "en": "S\u00e4ter"
2035         },
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2037         "Dolt": false,
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2039         "ID": "264",
2040         "Kod": "T6792",
2041         "KommunID": "233",
2042         "LarosateID": -1
2043     },
2044     {
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2046             "sv": "Hedemora",
2047             "en": "Hedemora"
2048         },
2049         "Beskrivning": {},
2050         "Dolt": false,
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2052         "ID": "265",
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2054         "KommunID": "234",
2055         "LarosateID": -1
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2059             "sv": "Avesta",
2060             "en": "Avesta"
2061         },
2062         "Beskrivning": {},
2063         "Dolt": false,
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2067         "KommunID": "235",
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2072             "sv": "Ludvika",
2073             "en": "Ludvika"
2074         },
2075         "Beskrivning": {},
2076         "Dolt": false,
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2078         "ID": "267",
2079         "Kod": "T6624",
2080         "KommunID": "236",
2081         "LarosateID": -1

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2086             "en": "Ockelbo"
2087         },
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2091         "ID": "268",
2092         "Kod": "T7236",
2093         "KommunID": "237",
2094         "LarosateID": -1
2095     },
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2097         "Benamning": {
2098             "sv": "Hofors",
2099             "en": "Hofors"
2100         },
2101         "Beskrivning": {},
2102         "Dolt": false,
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2107         "LarosateID": -1
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2112             "en": "Edsbyn"
2113         },
2114         "Beskrivning": {},
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2117         "ID": "270",
2118         "Kod": "T7044",
2119         "KommunID": "239",
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2125             "en": "Bergsj\u00f6"
2126         },
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2130         "ID": "271",
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2137         "sv": "Ljusdal",
2138         "en": "Ljusdal"
2139     },
2140     "Beskrivning": {},
2141     "Dolt": false,
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2143     "ID": "272",
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2145     "KommunID": "241",
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2151         "en": "Pajala"
2152     },
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2158     "KommunID": "283",
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2164         "en": "G\u00e4llivare"
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2190         "en": "Lule\u00e5"
2191     },
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2193     "Dolt": false,
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2203         "en": "Pite\u00e5"
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2221     "ID": "324",
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2223     "KommunID": "288",
2224     "LarosateID": -1
2225 },
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2229         "en": "Haparanda"
2230     },
2231     "Beskrivning": {},
2232     "Dolt": false,
2233     "Giltighetsperiod": {},
2234     "ID": "325",

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2235     "Kod": "T8604",
2236     "KommunID": "289",
2237     "LarosateID": -1
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2242         "en": "Kiruna"
2243     },
2244     "Beskrivning": {},
2245     "Dolt": false,
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2247     "ID": "326",
2248     "Kod": "T8676",
2249     "KommunID": "290",
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2255         "en": "G\u00f6teborg (Partille)"
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2257     "Beskrivning": {},
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2268         "en": "Alnarp"
2269     },
2270     "Beskrivning": {},
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2275     "KommunID": "104",
2276     "LarosateID": -1
2277 },
2278 {
2279     "Benamning": {
2280         "sv": "Ragunda",
2281         "en": "Ragunda"
2282     },
2283     "Beskrivning": {},
2284     "Dolt": false,
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2287     "Kod": "L2303",
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2294         "en": "H\u00e4rjedalen"
2295     },
2296     "Beskrivning": {},
2297     "Dolt": false,
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2300     "Kod": "L2361",
2301     "KommunID": "260",
2302     "LarosateID": -1
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2305     "Benamning": {
2306         "sv": "B\u00e4ckefors",
2307         "en": "B\u00e4ckefors"
2308     },
2309     "Beskrivning": {},
2310     "Dolt": false,
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2313     "Kod": "T4768",
2314     "KommunID": "155",
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2320         "en": "Reftele"
2321     },
2322     "Beskrivning": {},
2323     "Dolt": false,
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2326     "Kod": "T1624",
2327     "KommunID": "61",
2328     "LarosateID": -1
2329 },
2330 {
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2332         "sv": "J\u00e4lla",
2333         "en": "J\u00e4lla"
2334     },
2335     "Beskrivning": {},
2336     "Dolt": false,

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2341     "LarosateID": -1
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2343 {
2344     "Benamning": {
2345         "sv": "\u00c5s",
2346         "en": "\u00c5s"
2347     },
2348     "Beskrivning": {},
2349     "Dolt": false,
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2351     "ID": "157677",
2352     "Kod": "T8028",
2353     "KommunID": "256",
2354     "LarosateID": -1
2355 },
2356 {
2357     "Benamning": {
2358         "sv": "Malmk\u00f6ping",
2359         "en": "Malmk\u00f6ping"
2360     },
2361     "Beskrivning": {},
2362     "Dolt": false,
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2364     "ID": "47",
2365     "Kod": "T0796",
2366     "KommunID": "39",
2367     "LarosateID": -1
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2372         "en": "Katrineholm"
2373     },
2374     "Beskrivning": {},
2375     "Dolt": false,
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2378     "Kod": "T0784",
2379     "KommunID": "40",
2380     "LarosateID": -1
2381 },
2382 {
2383     "Benamning": {
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2385         "en": "Eskilstuna"
2386     },
2387     "Beskrivning": {},
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2398         "en": "Torsh\u00e4lla"
2399     },
2400     "Beskrivning": {},
2401     "Dolt": false,
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2404     "Kod": "T0880",
2405     "KommunID": "41",
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2411         "en": "Mariefred"
2412     },
2413     "Beskrivning": {},
2414     "Dolt": false,
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2418     "KommunID": "42",
2419     "LarosateID": -1
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2424         "en": "Str\u00e4ng\u00e4s"
2425     },
2426     "Beskrivning": {},
2427     "Dolt": false,
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2429     "ID": "52",
2430     "Kod": "T0868",
2431     "KommunID": "42",
2432     "LarosateID": -1
2433 },
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2437         "en": "Trosa"
2438     },

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2447 {
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2450         "en": "Vagnh\u00e4rad"
2451     },
2452     "Beskrivning": {},
2453     "Dolt": false,
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2463         "en": "\u00d6desh\u00f6g"
2464     },
2465     "Beskrivning": {},
2466     "Dolt": false,
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2470     "KommunID": "44",
2471     "LarosateID": -1
2472 },
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2474     "Benamning": {
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2476         "en": "Kisa"
2477     },
2478     "Beskrivning": {},
2479     "Dolt": false,
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2483     "KommunID": "46",
2484     "LarosateID": -1
2485 },
2486 {
2487     "Benamning": {
2488         "sv": "Boxholm",
2489         "en": "Boxholm"

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2490     },
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2492     "Dolt": false,
2493     "Giltighetsperiod": {},
2494     "ID": "57",
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2496     "KommunID": "47",
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2502         "en": "\u00c5tvidaberg"
2503     },
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2505     "Dolt": false,
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2507     "ID": "58",
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2509     "KommunID": "48",
2510     "LarosateID": -1
2511 },
2512 {
2513     "Benamning": {
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2515         "en": "Finsp\u00e5ng"
2516     },
2517     "Beskrivning": {},
2518     "Dolt": false,
2519     "Giltighetsperiod": {},
2520     "ID": "59",
2521     "Kod": "T1056",
2522     "KommunID": "49",
2523     "LarosateID": -1
2524 },
2525 {
2526     "Benamning": {
2527         "sv": "Valdemarsvik",
2528         "en": "Valdemarsvik"
2529     },
2530     "Beskrivning": {},
2531     "Dolt": false,
2532     "Giltighetsperiod": {},
2533     "ID": "60",
2534     "Kod": "T1304",
2535     "KommunID": "50",
2536     "LarosateID": -1
2537 },
2538 {
2539     "Benamning": {
2540         "sv": "Link\u00f6ping",

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2541         "en": "Link\u00f6ping"
2542     },
2543     "Beskrivning": {},
2544     "Dolt": false,
2545     "Giltighetsperiod": {},
2546     "ID": "61",
2547     "Kod": "T1152",
2548     "KommunID": "51",
2549     "LarosateID": -1
2550 },
2551 {
2552     "Benamning": {
2553         "sv": "Ljungsbro",
2554         "en": "Ljungsbro"
2555     },
2556     "Beskrivning": {},
2557     "Dolt": false,
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2559     "ID": "62",
2560     "Kod": "T1160",
2561     "KommunID": "51",
2562     "LarosateID": -1
2563 },
2564 {
2565     "Benamning": {
2566         "sv": "Norrk\u00f6ping",
2567         "en": "Norrk\u00f6ping"
2568     },
2569     "Beskrivning": {},
2570     "Dolt": false,
2571     "Giltighetsperiod": {},
2572     "ID": "63",
2573     "Kod": "T1192",
2574     "KommunID": "52",
2575     "LarosateID": -1
2576 },
2577 {
2578     "Benamning": {
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2580         "en": "S\u00f6derk\u00f6ping"
2581     },
2582     "Beskrivning": {},
2583     "Dolt": false,
2584     "Giltighetsperiod": {},
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2587     "KommunID": "53",
2588     "LarosateID": -1
2589 },
2590 {
2591     "Benamning": {

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2592         "sv": "Motala",
2593         "en": "Motala"
2594     },
2595     "Beskrivning": {},
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2606         "en": "Vadstena"
2607     },
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2612     "Kod": "T1300",
2613     "KommunID": "55",
2614     "LarosateID": -1
2615 },
2616 {
2617     "Benamning": {
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2619         "en": "Mj\u00f6lby"
2620     },
2621     "Beskrivning": {},
2622     "Dolt": false,
2623     "Giltighetsperiod": {},
2624     "ID": "67",
2625     "Kod": "T1180",
2626     "KommunID": "56",
2627     "LarosateID": -1
2628 },
2629 {
2630     "Benamning": {
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2632         "en": "Sk\u00e5nninge"
2633     },
2634     "Beskrivning": {},
2635     "Dolt": false,
2636     "Giltighetsperiod": {},
2637     "ID": "68",
2638     "Kod": "T1244",
2639     "KommunID": "56",
2640     "LarosateID": -1
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2642 {

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2645         "en": "Aneby"
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2647     "Beskrivning": {},
2648     "Dolt": false,
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2650     "ID": "69",
2651     "Kod": "T1404",
2652     "KommunID": "57",
2653     "LarosateID": -1
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2655 {
2656     "Benamning": {
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2658         "en": "Klippan"
2659     },
2660     "Beskrivning": {},
2661     "Dolt": false,
2662     "Giltighetsperiod": {},
2663     "ID": "139",
2664     "Kod": "T2964",
2665     "KommunID": "114",
2666     "LarosateID": -1
2667 },
2668 {
2669     "Benamning": {
2670         "sv": "\u00c5storp",
2671         "en": "\u00c5storp"
2672     },
2673     "Beskrivning": {},
2674     "Dolt": false,
2675     "Giltighetsperiod": {},
2676     "ID": "140",
2677     "Kod": "T3192",
2678     "KommunID": "115",
2679     "LarosateID": -1
2680 },
2681 {
2682     "Benamning": {
2683         "sv": "B\u00e5stad",
2684         "en": "B\u00e5stad"
2685     },
2686     "Beskrivning": {},
2687     "Dolt": false,
2688     "Giltighetsperiod": {},
2689     "ID": "141",
2690     "Kod": "T2840",
2691     "KommunID": "116",
2692     "LarosateID": -1
2693 },
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2694     {
2695         "Benamning": {
2696             "sv": "Malm\u00f6",
2697             "en": "Malm\u00f6"
2698         },
2699         "Beskrivning": {},
2700         "Dolt": false,
2701         "Giltighetsperiod": {},
2702         "ID": "142",
2703         "Kod": "T3604",
2704         "KommunID": "117",
2705         "LarosateID": -1
2706     },
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2708         "Benamning": {
2709             "sv": "Lund",
2710             "en": "Lund"
2711         },
2712         "Beskrivning": {},
2713         "Dolt": false,
2714         "Giltighetsperiod": {},
2715         "ID": "143",
2716         "Kod": "T3584",
2717         "KommunID": "118",
2718         "LarosateID": -1
2719     },
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2721         "Benamning": {
2722             "sv": "Landskrona",
2723             "en": "Landskrona"
2724         },
2725         "Beskrivning": {},
2726         "Dolt": false,
2727         "Giltighetsperiod": {},
2728         "ID": "144",
2729         "Kod": "T3560",
2730         "KommunID": "119",
2731         "LarosateID": -1
2732     },
2733     {
2734         "Benamning": {
2735             "sv": "Helsingborg",
2736             "en": "Helsingborg"
2737         },
2738         "Beskrivning": {},
2739         "Dolt": false,
2740         "Giltighetsperiod": {},
2741         "ID": "145",
2742         "Kod": "T3452",
2743         "KommunID": "120",
2744         "LarosateID": -1
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2745     },
2746     {
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2748             "sv": "H\u00f6gan\u00e4s",
2749             "en": "H\u00f6gan\u00e4s"
2750         },
2751         "Beskrivning": {},
2752         "Dolt": false,
2753         "Giltighetsperiod": {},
2754         "ID": "146",
2755         "Kod": "T3488",
2756         "KommunID": "121",
2757         "LarosateID": -1
2758     },
2759     {
2760         "Benamning": {
2761             "sv": "Esl\u00f6v",
2762             "en": "Esl\u00f6v"
2763         },
2764         "Beskrivning": {},
2765         "Dolt": false,
2766         "Giltighetsperiod": {},
2767         "ID": "147",
2768         "Kod": "T3396",
2769         "KommunID": "122",
2770         "LarosateID": -1
2771     },
2772     {
2773         "Benamning": {
2774             "sv": "Ystad",
2775             "en": "Ystad"
2776         },
2777         "Beskrivning": {},
2778         "Dolt": false,
2779         "Giltighetsperiod": {},
2780         "ID": "148",
2781         "Kod": "T3808",
2782         "KommunID": "123",
2783         "LarosateID": -1
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2787             "sv": "Trelleborg",
2788             "en": "Trelleborg"
2789         },
2790         "Beskrivning": {},
2791         "Dolt": false,
2792         "Giltighetsperiod": {},
2793         "ID": "149",
2794         "Kod": "T3752",
2795         "KommunID": "124",

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2796     "LarosateID": -1
2797 },
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2800         "sv": "Kristianstad",
2801         "en": "Kristianstad"
2802     },
2803     "Beskrivning": {},
2804     "Dolt": false,
2805     "Giltighetsperiod": {},
2806     "ID": "150",
2807     "Kod": "T2980",
2808     "KommunID": "125",
2809     "LarosateID": -1
2810 },
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2812     "Benamning": {
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2814         "en": "Tollarp"
2815     },
2816     "Beskrivning": {},
2817     "Dolt": false,
2818     "Giltighetsperiod": {},
2819     "ID": "151",
2820     "Kod": "T3108",
2821     "KommunID": "125",
2822     "LarosateID": -1
2823 },
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2825     "Benamning": {
2826         "sv": "\u00c5hus",
2827         "en": "\u00c5hus"
2828     },
2829     "Beskrivning": {},
2830     "Dolt": false,
2831     "Giltighetsperiod": {},
2832     "ID": "152",
2833     "Kod": "T3184",
2834     "KommunID": "125",
2835     "LarosateID": -1
2836 },
2837 {
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2839         "sv": "Simrishamn",
2840         "en": "Simrishamn"
2841     },
2842     "Beskrivning": {},
2843     "Dolt": false,
2844     "Giltighetsperiod": {},
2845     "ID": "153",
2846     "Kod": "T3060",

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2847     "KommunID": "126",
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2852         "sv": "\u00c4ngelholm",
2853         "en": "\u00c4ngelholm"
2854     },
2855     "Beskrivning": {},
2856     "Dolt": false,
2857     "Giltighetsperiod": {},
2858     "ID": "154",
2859     "Kod": "T3196",
2860     "KommunID": "127",
2861     "LarosateID": -1
2862 },
2863 {
2864     "Benamning": {
2865         "sv": "H\u00e4ssleholm",
2866         "en": "H\u00e4ssleholm"
2867     },
2868     "Beskrivning": {},
2869     "Dolt": false,
2870     "Giltighetsperiod": {},
2871     "ID": "155",
2872     "Kod": "T2936",
2873     "KommunID": "128",
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2875 },
2876 {
2877     "Benamning": {
2878         "sv": "Tyringe",
2879         "en": "Tyringe"
2880     },
2881     "Beskrivning": {},
2882     "Dolt": false,
2883     "Giltighetsperiod": {},
2884     "ID": "156",
2885     "Kod": "T3128",
2886     "KommunID": "128",
2887     "LarosateID": -1
2888 },
2889 {
2890     "Benamning": {
2891         "sv": "Hyltebruk",
2892         "en": "Hyltebruk"
2893     },
2894     "Beskrivning": {},
2895     "Dolt": false,
2896     "Giltighetsperiod": {},
2897     "ID": "157",

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2898     "Kod": "T3992",
2899     "KommunID": "129",
2900     "LarosateID": -1
2901 },
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2903     "Benamning": {
2904         "sv": "Hagfors",
2905         "en": "Hagfors"
2906     },
2907     "Beskrivning": {},
2908     "Dolt": false,
2909     "Giltighetsperiod": {},
2910     "ID": "227",
2911     "Kod": "T5688",
2912     "KommunID": "197",
2913     "LarosateID": -1
2914 },
2915 {
2916     "Benamning": {
2917         "sv": "Arvika",
2918         "en": "Arvika"
2919     },
2920     "Beskrivning": {},
2921     "Dolt": false,
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2923     "ID": "228",
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2925     "KommunID": "198",
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2927 },
2928 {
2929     "Benamning": {
2930         "sv": "S\u00e4ffle",
2931         "en": "S\u00e4ffle"
2932     },
2933     "Beskrivning": {},
2934     "Dolt": false,
2935     "Giltighetsperiod": {},
2936     "ID": "229",
2937     "Kod": "T5840",
2938     "KommunID": "199",
2939     "LarosateID": -1
2940 },
2941 {
2942     "Benamning": {
2943         "sv": "Fjugesta",
2944         "en": "Fjugesta"
2945     },
2946     "Beskrivning": {},
2947     "Dolt": false,
2948     "Giltighetsperiod": {},

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2949     "ID": "230",
2950     "Kod": "T5936",
2951     "KommunID": "200",
2952     "LarosateID": -1
2953 },
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2955     "Benamning": {
2956         "sv": "Lax\u00e5",
2957         "en": "Lax\u00e5"
2958     },
2959     "Beskrivning": {},
2960     "Dolt": false,
2961     "Giltighetsperiod": {},
2962     "ID": "231",
2963     "Kod": "T6036",
2964     "KommunID": "201",
2965     "LarosateID": -1
2966 },
2967 {
2968     "Benamning": {
2969         "sv": "Hallsberg",
2970         "en": "Hallsberg"
2971     },
2972     "Beskrivning": {},
2973     "Dolt": false,
2974     "Giltighetsperiod": {},
2975     "ID": "232",
2976     "Kod": "T5964",
2977     "KommunID": "202",
2978     "LarosateID": -1
2979 },
2980 {
2981     "Benamning": {
2982         "sv": "Degerfors",
2983         "en": "Degerfors"
2984     },
2985     "Beskrivning": {},
2986     "Dolt": false,
2987     "Giltighetsperiod": {},
2988     "ID": "233",
2989     "Kod": "T5916",
2990     "KommunID": "203",
2991     "LarosateID": -1
2992 },
2993 {
2994     "Benamning": {
2995         "sv": "Grythyttan",
2996         "en": "Grythyttan"
2997     },
2998     "Beskrivning": {},
2999     "Dolt": false,

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3000     "Giltighetsperiod": {},
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3002     "Kod": "T5952",
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3004     "LarosateID": -1
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3007     "Benamning": {
3008         "sv": "H\u00e4llefors",
3009         "en": "H\u00e4llefors"
3010     },
3011     "Beskrivning": {},
3012     "Dolt": false,
3013     "Giltighetsperiod": {},
3014     "ID": "235",
3015     "Kod": "T5996",
3016     "KommunID": "204",
3017     "LarosateID": -1
3018 },
3019 {
3020     "Benamning": {
3021         "sv": "Kopparberg",
3022         "en": "Kopparberg"
3023     },
3024     "Beskrivning": {},
3025     "Dolt": false,
3026     "Giltighetsperiod": {},
3027     "ID": "236",
3028     "Kod": "T6016",
3029     "KommunID": "205",
3030     "LarosateID": -1
3031 },
3032 {
3033     "Benamning": {
3034         "sv": "\u00d6rebro",
3035         "en": "\u00d6rebro"
3036     },
3037     "Beskrivning": {},
3038     "Dolt": false,
3039     "Giltighetsperiod": {},
3040     "ID": "237",
3041     "Kod": "T6188",
3042     "KommunID": "206",
3043     "LarosateID": -1
3044 },
3045 {
3046     "Benamning": {
3047         "sv": "Kumla",
3048         "en": "Kumla"
3049     },
3050     "Beskrivning": {},

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3051     "Dolt": false,
3052     "Giltighetsperiod": {},
3053     "ID": "238",
3054     "Kod": "T6020",
3055     "KommunID": "207",
3056     "LarosateID": -1
3057 },
3058 {
3059     "Benamning": {
3060         "sv": "Askersund",
3061         "en": "Askersund"
3062     },
3063     "Beskrivning": {},
3064     "Dolt": false,
3065     "Giltighetsperiod": {},
3066     "ID": "239",
3067     "Kod": "T5904",
3068     "KommunID": "208",
3069     "LarosateID": -1
3070 },
3071 {
3072     "Benamning": {
3073         "sv": "Karlskoga",
3074         "en": "Karlskoga"
3075     },
3076     "Beskrivning": {},
3077     "Dolt": false,
3078     "Giltighetsperiod": {},
3079     "ID": "240",
3080     "Kod": "T6008",
3081     "KommunID": "209",
3082     "LarosateID": -1
3083 },
3084 {
3085     "Benamning": {
3086         "sv": "Nora",
3087         "en": "Nora"
3088     },
3089     "Beskrivning": {},
3090     "Dolt": false,
3091     "Giltighetsperiod": {},
3092     "ID": "241",
3093     "Kod": "T6060",
3094     "KommunID": "210",
3095     "LarosateID": -1
3096 },
3097 {
3098     "Benamning": {
3099         "sv": "Lindesberg",
3100         "en": "Lindesberg"
3101     },
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3103     "Dolt": false,
3104     "Giltighetsperiod": {},
3105     "ID": "242",
3106     "Kod": "T6040",
3107     "KommunID": "211",
3108     "LarosateID": -1
3109 },
3110 {
3111     "Benamning": {
3112         "sv": "Skinnskatteberg",
3113         "en": "Skinnskatteberg"
3114     },
3115     "Beskrivning": {},
3116     "Dolt": false,
3117     "Giltighetsperiod": {},
3118     "ID": "243",
3119     "Kod": "T6320",
3120     "KommunID": "212",
3121     "LarosateID": -1
3122 },
3123 {
3124     "Benamning": {
3125         "sv": "Surahammar",
3126         "en": "Surahammar"
3127     },
3128     "Beskrivning": {},
3129     "Dolt": false,
3130     "Giltighetsperiod": {},
3131     "ID": "244",
3132     "Kod": "T6332",
3133     "KommunID": "213",
3134     "LarosateID": -1
3135 },
3136 {
3137     "Benamning": {
3138         "sv": "Kungs\u00f6r",
3139         "en": "Kungs\u00f6r"
3140     },
3141     "Beskrivning": {},
3142     "Dolt": false,
3143     "Giltighetsperiod": {},
3144     "ID": "245",
3145     "Kod": "T6256",
3146     "KommunID": "214",
3147     "LarosateID": -1
3148 },
3149 {
3150     "Benamning": {
3151         "sv": "Hallstahammar",
3152         "en": "Hallstahammar"
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3153     },
3154     "Beskrivning": {},
3155     "Dolt": false,
3156     "Giltighetsperiod": {},
3157     "ID": "246",
3158     "Kod": "T6224",
3159     "KommunID": "215",
3160     "LarosateID": -1
3161 },
3162 {
3163     "Benamning": {
3164         "sv": "Norberg",
3165         "en": "Norberg"
3166     },
3167     "Beskrivning": {},
3168     "Dolt": false,
3169     "Giltighetsperiod": {},
3170     "ID": "247",
3171     "Kod": "T6292",
3172     "KommunID": "216",
3173     "LarosateID": -1
3174 },
3175 {
3176     "Benamning": {
3177         "sv": "V\u00e4ster\u00e5s",
3178         "en": "V\u00e4ster\u00e5s"
3179     },
3180     "Beskrivning": {},
3181     "Dolt": false,
3182     "Giltighetsperiod": {},
3183     "ID": "248",
3184     "Kod": "T6376",
3185     "KommunID": "217",
3186     "LarosateID": -1
3187 },
3188 {
3189     "Benamning": {
3190         "sv": "Sala",
3191         "en": "Sala"
3192     },
3193     "Beskrivning": {},
3194     "Dolt": false,
3195     "Giltighetsperiod": {},
3196     "ID": "249",
3197     "Kod": "T6312",
3198     "KommunID": "218",
3199     "LarosateID": -1
3200 },
3201 {
3202     "Benamning": {
3203         "sv": "Flyinge",
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3204         "en": "Flyinge"
3205     },
3206     "Beskrivning": {},
3207     "Dolt": false,
3208     "Giltighetsperiod": {},
3209     "ID": "101190",
3210     "Kod": "T3400",
3211     "KommunID": "122",
3212     "LarosateID": -1
3213 },
3214 {
3215     "Benamning": {
3216         "sv": "Onsala",
3217         "en": "Onsala"
3218     },
3219     "Beskrivning": {},
3220     "Dolt": false,
3221     "Giltighetsperiod": {},
3222     "ID": "101191",
3223     "Kod": "T4054",
3224     "KommunID": "134",
3225     "LarosateID": -1
3226 },
3227 {
3228     "Benamning": {
3229         "sv": "Str\u00f6msholm",
3230         "en": "Str\u00f6msholm"
3231     },
3232     "Beskrivning": {},
3233     "Dolt": false,
3234     "Giltighetsperiod": {},
3235     "ID": "101192",
3236     "Kod": "T6328",
3237     "KommunID": "215",
3238     "LarosateID": -1
3239 },
3240 {
3241     "Benamning": {
3242         "sv": "Garpenberg",
3243         "en": "Garpenberg"
3244     },
3245     "Beskrivning": {},
3246     "Dolt": false,
3247     "Giltighetsperiod": {},
3248     "ID": "101193",
3249     "Kod": "T6532",
3250     "KommunID": "234",
3251     "LarosateID": -1
3252 },
3253 {
3254     "Benamning": {

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3255         "sv": "F\u00e4rila",
3256         "en": "F\u00e4rila"
3257     },
3258     "Beskrivning": {},
3259     "Dolt": false,
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3261     "ID": "101194",
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3263     "KommunID": "241",
3264     "LarosateID": -1
3265 },
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3267     "Benamning": {
3268         "sv": "S\u00f6r\u00e5ker",
3269         "en": "S\u00f6r\u00e5ker"
3270     },
3271     "Beskrivning": {},
3272     "Dolt": false,
3273     "Giltighetsperiod": {},
3274     "ID": "101195",
3275     "Kod": "T7762",
3276     "KommunID": "248",
3277     "LarosateID": -1
3278 },
3279 {
3280     "Benamning": {
3281         "sv": "V\u00e4stra Bisp\u00e4rden",
3282         "en": "V\u00e4stra Bisp\u00e4rden"
3283     },
3284     "Beskrivning": {},
3285     "Dolt": false,
3286     "Giltighetsperiod": {},
3287     "ID": "101196",
3288     "Kod": "T7808",
3289     "KommunID": "254",
3290     "LarosateID": -1
3291 },
3292 {
3293     "Benamning": {
3294         "sv": "Hammerdal",
3295         "en": "Hammerdal"
3296     },
3297     "Beskrivning": {},
3298     "Dolt": false,
3299     "Giltighetsperiod": {},
3300     "ID": "101197",
3301     "Kod": "T7860",
3302     "KommunID": "257",
3303     "LarosateID": -1
3304 },
3305 {

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3306     "Benamning": {
3307         "sv": "Hemavan",
3308         "en": "Hemavan"
3309     },
3310     "Beskrivning": {},
3311     "Dolt": false,
3312     "Giltighetsperiod": {},
3313     "ID": "101198",
3314     "Kod": "T8198",
3315     "KommunID": "268",
3316     "LarosateID": -1
3317 },
3318 {
3319     "Benamning": {
3320         "sv": "T\u00e4rnaby",
3321         "en": "T\u00e4rnaby"
3322     },
3323     "Beskrivning": {},
3324     "Dolt": false,
3325     "Giltighetsperiod": {},
3326     "ID": "101199",
3327     "Kod": "T8364",
3328     "KommunID": "268",
3329     "LarosateID": -1
3330 },
3331 {
3332     "Benamning": {
3333         "sv": "Ammarn\u00e4s",
3334         "en": "Ammarn\u00e4s"
3335     },
3336     "Beskrivning": {},
3337     "Dolt": false,
3338     "Giltighetsperiod": {},
3339     "ID": "101200",
3340     "Kod": "S8405",
3341     "KommunID": "269",
3342     "LarosateID": -1
3343 },
3344 {
3345     "Benamning": {
3346         "sv": "Norrbyn",
3347         "en": "Norrbyn"
3348     },
3349     "Beskrivning": {},
3350     "Dolt": false,
3351     "Giltighetsperiod": {},
3352     "ID": "101201",
3353     "Kod": "TX814",
3354     "KommunID": "274",
3355     "LarosateID": -1
3356 },
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3359             "sv": "Vuollerim",
3360             "en": "Vuollerim"
3361         },
3362         "Beskrivning": {},
3363         "Dolt": false,
3364         "Giltighetsperiod": {},
3365         "ID": "101202",
3366         "Kod": "T8920",
3367         "KommunID": "279",
3368         "LarosateID": -1
3369     },
3370     {
3371         "Benamning": {
3372             "sv": "S\u00f6dra Sunderbyn",
3373             "en": "S\u00f6dra Sunderbyn"
3374         },
3375         "Beskrivning": {},
3376         "Dolt": false,
3377         "Giltighetsperiod": {},
3378         "ID": "101203",
3379         "Kod": "T8880",
3380         "KommunID": "286",
3381         "LarosateID": -1
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3610     "Dolt": false,
3611     "Giltighetsperiod": {},
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3711         "en": "Saltsj\u00f6baden"
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3757     "KommunID": "98",
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3795     "Kod": "T3672",
3796     "KommunID": "99",
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3828         "en": "Knislinge"
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3835     "KommunID": "100",
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3841         "en": "\u00d6rkelljunga"
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3893         "en": "Bj\u00e4rred"
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3945         "en": "Sj\u00f6bo"
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4056         "KommunID": "175",
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4083         "LarosateID": -1
4084     },
4085     {
4086         "Benamning": {
4087             "sv": "Lidk\u00f6ping",
4088             "en": "Lidk\u00f6ping"
4089         },
4090         "Beskrivning": {},
4091         "Dolt": false,
4092         "Giltighetsperiod": {},
4093         "ID": "208",
4094         "Kod": "T5352",
4095         "KommunID": "178",
4096         "LarosateID": -1
4097     },
4098     {
4099         "Benamning": {
4100             "sv": "Skara",
4101             "en": "Skara"
4102         },
4103         "Beskrivning": {},
4104         "Dolt": false,
4105         "Giltighetsperiod": {},
4106         "ID": "209",
4107         "Kod": "T5420",
4108         "KommunID": "179",
4109         "LarosateID": -1
4110     },
4111     {
4112         "Benamning": {
4113             "sv": "Sk\u00f6vde",
4114             "en": "Sk\u00f6vde"
4115         },
4116         "Beskrivning": {},
4117         "Dolt": false,
4118         "Giltighetsperiod": {},
4119         "ID": "210",
4120         "Kod": "T5428",
4121         "KommunID": "180",
```



```

4122     "LarosateID": -1
4123 },
4124 {
4125     "Benamning": {
4126         "sv": "Hjo",
4127         "en": "Hjo"
4128     },
4129     "Beskrivning": {},
4130     "Dolt": false,
4131     "Giltighetsperiod": {},
4132     "ID": "211",
4133     "Kod": "T5296",
4134     "KommunID": "181",
4135     "LarosateID": -1
4136 },
4137 {
4138     "Benamning": {
4139         "sv": "Tidaholm",
4140         "en": "Tidaholm"
4141     },
4142     "Beskrivning": {},
4143     "Dolt": false,
4144     "Giltighetsperiod": {},
4145     "ID": "212",
4146     "Kod": "T5460",
4147     "KommunID": "182",
4148     "LarosateID": -1
4149 },
4150 {
4151     "Benamning": {
4152         "sv": "Falk\u00f6ping",
4153         "en": "Falk\u00f6ping"
4154     },
4155     "Beskrivning": {},
4156     "Dolt": false,
4157     "Giltighetsperiod": {},
4158     "ID": "213",
4159     "Kod": "T5236",
4160     "KommunID": "183",
4161     "LarosateID": -1
4162 },
4163 {
4164     "Benamning": {
4165         "sv": "Kil",
4166         "en": "Kil"
4167     },
4168     "Beskrivning": {},
4169     "Dolt": false,
4170     "Giltighetsperiod": {},
4171     "ID": "214",
4172     "Kod": "T5708",

```

```
4173     "KommunID": "184",
4174     "LarosateID": -1
4175 },
4176 {
4177     "Benamning": {
4178         "sv": "Charlottenberg",
4179         "en": "Charlottenberg"
4180     },
4181     "Beskrivning": {},
4182     "Dolt": false,
4183     "Giltighetsperiod": {},
4184     "ID": "215",
4185     "Kod": "T5628",
4186     "KommunID": "185",
4187     "LarosateID": -1
4188 },
4189 {
4190     "Benamning": {
4191         "sv": "Torsby",
4192         "en": "Torsby"
4193     },
4194     "Beskrivning": {},
4195     "Dolt": false,
4196     "Giltighetsperiod": {},
4197     "ID": "216",
4198     "Kod": "T5844",
4199     "KommunID": "186",
4200     "LarosateID": -1
4201 },
4202 {
4203     "Benamning": {
4204         "sv": "Storfors",
4205         "en": "Storfors"
4206     },
4207     "Beskrivning": {},
4208     "Dolt": false,
4209     "Giltighetsperiod": {},
4210     "ID": "217",
4211     "Kod": "T5812",
4212     "KommunID": "187",
4213     "LarosateID": -1
4214 },
4215 {
4216     "Benamning": {
4217         "sv": "Skoghall",
4218         "en": "Skoghall"
4219     },
4220     "Beskrivning": {},
4221     "Dolt": false,
4222     "Giltighetsperiod": {},
4223     "ID": "218",
```

```

4224     "Kod": "T5804",
4225     "KommunID": "188",
4226     "LarosateID": -1
4227 },
4228 {
4229     "Benamning": {
4230         "sv": "Munkfors",
4231         "en": "Munkfors"
4232     },
4233     "Beskrivning": {},
4234     "Dolt": false,
4235     "Giltighetsperiod": {},
4236     "ID": "219",
4237     "Kod": "T5760",
4238     "KommunID": "189",
4239     "LarosateID": -1
4240 },
4241 {
4242     "Benamning": {
4243         "sv": "Forshaga",
4244         "en": "Forshaga"
4245     },
4246     "Beskrivning": {},
4247     "Dolt": false,
4248     "Giltighetsperiod": {},
4249     "ID": "220",
4250     "Kod": "T5664",
4251     "KommunID": "190",
4252     "LarosateID": -1
4253 },
4254 {
4255     "Benamning": {
4256         "sv": "Grums",
4257         "en": "Grums"
4258     },
4259     "Beskrivning": {},
4260     "Dolt": false,
4261     "Giltighetsperiod": {},
4262     "ID": "221",
4263     "Kod": "T5676",
4264     "KommunID": "191",
4265     "LarosateID": -1
4266 },
4267 {
4268     "Benamning": {
4269         "sv": "\u00c5rj\u00e4ng",
4270         "en": "\u00c5rj\u00e4ng"
4271     },
4272     "Beskrivning": {},
4273     "Dolt": false,
4274     "Giltighetsperiod": {},

```

```
4275     "ID": "222",
4276     "Kod": "T5884",
4277     "KommunID": "192",
4278     "LarosateID": -1
4279 },
4280 {
4281     "Benamning": {
4282         "sv": "Sunne",
4283         "en": "Sunne"
4284     },
4285     "Beskrivning": {},
4286     "Dolt": false,
4287     "Giltighetsperiod": {},
4288     "ID": "223",
4289     "Kod": "T5824",
4290     "KommunID": "193",
4291     "LarosateID": -1
4292 },
4293 {
4294     "Benamning": {
4295         "sv": "Karlstad",
4296         "en": "Karlstad"
4297     },
4298     "Beskrivning": {},
4299     "Dolt": false,
4300     "Giltighetsperiod": {},
4301     "ID": "224",
4302     "Kod": "T5704",
4303     "KommunID": "194",
4304     "LarosateID": -1
4305 },
4306 {
4307     "Benamning": {
4308         "sv": "Kristinehamn",
4309         "en": "Kristinehamn"
4310     },
4311     "Beskrivning": {},
4312     "Dolt": false,
4313     "Giltighetsperiod": {},
4314     "ID": "225",
4315     "Kod": "T5720",
4316     "KommunID": "195",
4317     "LarosateID": -1
4318 },
4319 {
4320     "Benamning": {
4321         "sv": "Filipstad",
4322         "en": "Filipstad"
4323     },
4324     "Beskrivning": {},
4325     "Dolt": false,
```

```
4326     "Giltighetsperiod": {},
4327     "ID": "226",
4328     "Kod": "T5660",
4329     "KommunID": "196",
4330     "LarosateID": -1
4331 },
4332 {
4333     "Benamning": {
4334         "sv": "Vindeln",
4335         "en": "Vindeln"
4336     },
4337     "Beskrivning": {},
4338     "Dolt": false,
4339     "Giltighetsperiod": {},
4340     "ID": "296",
4341     "Kod": "T8380",
4342     "KommunID": "264",
4343     "LarosateID": -1
4344 },
4345 {
4346     "Benamning": {
4347         "sv": "Robertsfors",
4348         "en": "Robertsfors"
4349     },
4350     "Beskrivning": {},
4351     "Dolt": false,
4352     "Giltighetsperiod": {},
4353     "ID": "297",
4354     "Kod": "T8292",
4355     "KommunID": "265",
4356     "LarosateID": -1
4357 },
4358 {
4359     "Benamning": {
4360         "sv": "Norsj\u00f6",
4361         "en": "Norsj\u00f6"
4362     },
4363     "Beskrivning": {},
4364     "Dolt": false,
4365     "Giltighetsperiod": {},
4366     "ID": "298",
4367     "Kod": "T8268",
4368     "KommunID": "266",
4369     "LarosateID": -1
4370 },
4371 {
4372     "Benamning": {
4373         "sv": "Mal\u00e5",
4374         "en": "Mal\u00e5"
4375     },
4376     "Beskrivning": {},
```

```

4377     "Dolt": false,
4378     "Giltighetsperiod": {},
4379     "ID": "299",
4380     "Kod": "T8244",
4381     "KommunID": "267",
4382     "LarosateID": -1
4383 },
4384 {
4385     "Benamning": {
4386         "sv": "Storuman",
4387         "en": "Storuman"
4388     },
4389     "Beskrivning": {},
4390     "Dolt": false,
4391     "Giltighetsperiod": {},
4392     "ID": "300",
4393     "Kod": "T8324",
4394     "KommunID": "268",
4395     "LarosateID": -1
4396 },
4397 {
4398     "Benamning": {
4399         "sv": "Sorsele",
4400         "en": "Sorsele"
4401     },
4402     "Beskrivning": {},
4403     "Dolt": false,
4404     "Giltighetsperiod": {},
4405     "ID": "301",
4406     "Kod": "T8316",
4407     "KommunID": "269",
4408     "LarosateID": -1
4409 },
4410 {
4411     "Benamning": {
4412         "sv": "Dorotea",
4413         "en": "Dorotea"
4414     },
4415     "Beskrivning": {},
4416     "Dolt": false,
4417     "Giltighetsperiod": {},
4418     "ID": "302",
4419     "Kod": "T8168",
4420     "KommunID": "270",
4421     "LarosateID": -1
4422 },
4423 {
4424     "Benamning": {
4425         "sv": "V\u00e4nn\u00e4s",
4426         "en": "V\u00e4nn\u00e4s"
4427     },

```

```

4428     "Beskrivning": {},
4429     "Dolt": false,
4430     "Giltighetsperiod": {},
4431     "ID": "303",
4432     "Kod": "T8384",
4433     "KommunID": "271",
4434     "LarosateID": -1
4435 },
4436 {
4437     "Benamning": {
4438         "sv": "Vilhelmina",
4439         "en": "Vilhelmina"
4440     },
4441     "Beskrivning": {},
4442     "Dolt": false,
4443     "Giltighetsperiod": {},
4444     "ID": "304",
4445     "Kod": "T8376",
4446     "KommunID": "272",
4447     "LarosateID": -1
4448 },
4449 {
4450     "Benamning": {
4451         "sv": "\u00c5sele",
4452         "en": "\u00c5sele"
4453     },
4454     "Beskrivning": {},
4455     "Dolt": false,
4456     "Giltighetsperiod": {},
4457     "ID": "305",
4458     "Kod": "T8400",
4459     "KommunID": "273",
4460     "LarosateID": -1
4461 },
4462 {
4463     "Benamning": {
4464         "sv": "Ume\u00e5",
4465         "en": "Ume\u00e5"
4466     },
4467     "Beskrivning": {},
4468     "Dolt": false,
4469     "Giltighetsperiod": {},
4470     "ID": "306",
4471     "Kod": "T8372",
4472     "KommunID": "274",
4473     "LarosateID": -1
4474 },
4475 {
4476     "Benamning": {
4477         "sv": "Lycksele",
4478         "en": "Lycksele"

```

```
4479     },
4480     "Beskrivning": {},
4481     "Dolt": false,
4482     "Giltighetsperiod": {},
4483     "ID": "307",
4484     "Kod": "T8232",
4485     "KommunID": "275",
4486     "LarosateID": -1
4487 },
4488 {
4489     "Benamning": {
4490         "sv": "Burtr\u00e4sk",
4491         "en": "Burtr\u00e4sk"
4492     },
4493     "Beskrivning": {},
4494     "Dolt": false,
4495     "Giltighetsperiod": {},
4496     "ID": "308",
4497     "Kod": "T8148",
4498     "KommunID": "276",
4499     "LarosateID": -1
4500 },
4501 {
4502     "Benamning": {
4503         "sv": "Byske",
4504         "en": "Byske"
4505     },
4506     "Beskrivning": {},
4507     "Dolt": false,
4508     "Giltighetsperiod": {},
4509     "ID": "309",
4510     "Kod": "T8160",
4511     "KommunID": "276",
4512     "LarosateID": -1
4513 },
4514 {
4515     "Benamning": {
4516         "sv": "J\u00f6rn",
4517         "en": "J\u00f6rn"
4518     },
4519     "Beskrivning": {},
4520     "Dolt": false,
4521     "Giltighetsperiod": {},
4522     "ID": "310",
4523     "Kod": "T8212",
4524     "KommunID": "276",
4525     "LarosateID": -1
4526 },
4527 {
4528     "Benamning": {
4529         "sv": "L\u00f6v\u00e5nger",
```



```

4530     "en": "L\u00f6v\u00e5nger"
4531 },
4532 "Beskrivning": {},
4533 "Dolt": false,
4534 "Giltighetsperiod": {},
4535 "ID": "311",
4536 "Kod": "T8240",
4537 "KommunID": "276",
4538 "LarosateID": -1
4539 },
4540 {
4541   "Benamning": {
4542     "sv": "Skellefte\u00e5",
4543     "en": "Skellefte\u00e5"
4544   },
4545   "Beskrivning": {},
4546   "Dolt": false,
4547   "Giltighetsperiod": {},
4548   "ID": "312",
4549   "Kod": "T8312",
4550   "KommunID": "276",
4551   "LarosateID": -1
4552 },
4553 {
4554   "Benamning": {
4555     "sv": "Arvidsjaur",
4556     "en": "Arvidsjaur"
4557   },
4558   "Beskrivning": {},
4559   "Dolt": false,
4560   "Giltighetsperiod": {},
4561   "ID": "313",
4562   "Kod": "T8516",
4563   "KommunID": "277",
4564   "LarosateID": -1
4565 },
4566 {
4567   "Benamning": {
4568     "sv": "Arjeplog",
4569     "en": "Arjeplog"
4570   },
4571   "Beskrivning": {},
4572   "Dolt": false,
4573   "Giltighetsperiod": {},
4574   "ID": "314",
4575   "Kod": "T8512",
4576   "KommunID": "278",
4577   "LarosateID": -1
4578 },
4579 {
4580   "Benamning": {

```

```

4581         "sv": "Jokkmokk",
4582         "en": "Jokkmokk"
4583     },
4584     "Beskrivning": {},
4585     "Dolt": false,
4586     "Giltighetsperiod": {},
4587     "ID": "315",
4588     "Kod": "T8628",
4589     "KommunID": "279",
4590     "LarosateID": -1
4591 },
4592 {
4593     "Benamning": {
4594         "sv": "\u00d6verkalix",
4595         "en": "\u00d6verkalix"
4596     },
4597     "Beskrivning": {},
4598     "Dolt": false,
4599     "Giltighetsperiod": {},
4600     "ID": "316",
4601     "Kod": "T8940",
4602     "KommunID": "280",
4603     "LarosateID": -1
4604 },
4605 {
4606     "Benamning": {
4607         "sv": "Kalix",
4608         "en": "Kalix"
4609     },
4610     "Beskrivning": {},
4611     "Dolt": false,
4612     "Giltighetsperiod": {},
4613     "ID": "317",
4614     "Kod": "T8656",
4615     "KommunID": "281",
4616     "LarosateID": -1
4617 },
4618 {
4619     "Benamning": {
4620         "sv": "\u00d6vertorne\u00e5",
4621         "en": "\u00d6vertorne\u00e5"
4622     },
4623     "Beskrivning": {},
4624     "Dolt": false,
4625     "Giltighetsperiod": {},
4626     "ID": "318",
4627     "Kod": "T8944",
4628     "KommunID": "282",
4629     "LarosateID": -1
4630 },
4631 {

```

```

4632     "Benamning": {
4633         "sv": "Knivsta",
4634         "en": "Knivsta"
4635     },
4636     "Beskrivning": {},
4637     "Dolt": false,
4638     "Giltighetsperiod": {},
4639     "ID": "135292",
4640     "Kod": "T0576",
4641     "KommunID": "29",
4642     "LarosateID": -1
4643 },
4644 {
4645     "Benamning": {
4646         "sv": "F\u00e5r\u00f6sund",
4647         "en": "F\u00e5r\u00f6sund"
4648     },
4649     "Beskrivning": {},
4650     "Dolt": false,
4651     "Giltighetsperiod": {},
4652     "ID": "135293",
4653     "Kod": "T2504",
4654     "KommunID": "90",
4655     "LarosateID": -1
4656 }
4657 ]
4658 }

```

20.7 kommuner_JSON

```

764a <LadokSession data methods 126b>+=
# added by GQMJr
def kommuner_JSON(self):
    """
    Returns a dictionary of Swedish municipalities.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url + '/kataloginformation/internal/grunddata/kommun',
        headers=self.headers).json()
    return r

```

Let's add a test. This should return a dictionary.

```

764b <test functions 126a>+=
def test_kommuner_JSON():
    r = ladok.kommuner_JSON()
    assert type(r) == dict

```

This code is used in chunk 121.

The output looks like this:

```

1 {

```

```
2  "Kommun": [  
3    {  
4      "Benamning": {  
5        "sv": "Upplands V\u00e4sby",  
6        "en": "Upplands V\u00e4sby"  
7      },  
8      "Beskrivning": {},  
9      "Dolt": false,  
10     "Giltighetsperiod": {},  
11     "ID": "1",  
12     "Kod": "0114",  
13     "LanID": 1,  
14     "LarosateID": -1  
15   },  
16   {  
17     "Benamning": {  
18       "sv": "Vallentuna",  
19       "en": "Vallentuna"  
20     },  
21     "Beskrivning": {},  
22     "Dolt": false,  
23     "Giltighetsperiod": {},  
24     "ID": "2",  
25     "Kod": "0115",  
26     "LanID": 1,  
27     "LarosateID": -1  
28   },  
29   {  
30     "Benamning": {  
31       "sv": "\u00d6ster\u00e5ker",  
32       "en": "\u00d6ster\u00e5ker"  
33     },  
34     "Beskrivning": {},  
35     "Dolt": false,  
36     "Giltighetsperiod": {},  
37     "ID": "3",  
38     "Kod": "0117",  
39     "LanID": 1,  
40     "LarosateID": -1  
41   },  
42   {  
43     "Benamning": {  
44       "sv": "V\u00e4rmd\u00f6",  
45       "en": "V\u00e4rmd\u00f6"  
46     },  
47     "Beskrivning": {},  
48     "Dolt": false,  
49     "Giltighetsperiod": {},  
50     "ID": "4",  
51     "Kod": "0120",  
52     "LanID": 1,
```

```

53     "LarosateID": -1
54 },
55 {
56     "Benamning": {
57         "sv": "J\u00e4rf\u00e4lla",
58         "en": "J\u00e4rf\u00e4lla"
59     },
60     "Beskrivning": {},
61     "Dolt": false,
62     "Giltighetsperiod": {},
63     "ID": "5",
64     "Kod": "0123",
65     "LanID": 1,
66     "LarosateID": -1
67 },
68 {
69     "Benamning": {
70         "sv": "Eker\u00f6",
71         "en": "Eker\u00f6"
72     },
73     "Beskrivning": {},
74     "Dolt": false,
75     "Giltighetsperiod": {},
76     "ID": "6",
77     "Kod": "0125",
78     "LanID": 1,
79     "LarosateID": -1
80 },
81 {
82     "Benamning": {
83         "sv": "Huddinge",
84         "en": "Huddinge"
85     },
86     "Beskrivning": {},
87     "Dolt": false,
88     "Giltighetsperiod": {},
89     "ID": "7",
90     "Kod": "0126",
91     "LanID": 1,
92     "LarosateID": -1
93 },
94 {
95     "Benamning": {
96         "sv": "Botkyrka",
97         "en": "Botkyrka"
98     },
99     "Beskrivning": {},
100    "Dolt": false,
101    "Giltighetsperiod": {},
102    "ID": "8",
103    "Kod": "0127",

```

```

104     "LanID": 1,
105     "LarosateID": -1
106 },
107 {
108     "Benamning": {
109         "sv": "Salem",
110         "en": "Salem"
111     },
112     "Beskrivning": {},
113     "Dolt": false,
114     "Giltighetsperiod": {},
115     "ID": "9",
116     "Kod": "0128",
117     "LanID": 1,
118     "LarosateID": -1
119 },
120 {
121     "Benamning": {
122         "sv": "Haninge",
123         "en": "Haninge"
124     },
125     "Beskrivning": {},
126     "Dolt": false,
127     "Giltighetsperiod": {},
128     "ID": "10",
129     "Kod": "0136",
130     "LanID": 1,
131     "LarosateID": -1
132 },
133 {
134     "Benamning": {
135         "sv": "Tyres\u00f6",
136         "en": "Tyres\u00f6"
137     },
138     "Beskrivning": {},
139     "Dolt": false,
140     "Giltighetsperiod": {},
141     "ID": "11",
142     "Kod": "0138",
143     "LanID": 1,
144     "LarosateID": -1
145 },
146 {
147     "Benamning": {
148         "sv": "Upplands-Bro",
149         "en": "Upplands-Bro"
150     },
151     "Beskrivning": {},
152     "Dolt": false,
153     "Giltighetsperiod": {},
154     "ID": "12",

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155     "Kod": "0139",
156     "LanID": 1,
157     "LarosateID": -1
158 },
159 {
160     "Benamning": {
161         "sv": "Nykvarn",
162         "en": "Nykvarn"
163     },
164     "Beskrivning": {},
165     "Dolt": false,
166     "Giltighetsperiod": {},
167     "ID": "13",
168     "Kod": "0140",
169     "LanID": 1,
170     "LarosateID": -1
171 },
172 {
173     "Benamning": {
174         "sv": "T\u00e4by",
175         "en": "T\u00e4by"
176     },
177     "Beskrivning": {},
178     "Dolt": false,
179     "Giltighetsperiod": {},
180     "ID": "14",
181     "Kod": "0160",
182     "LanID": 1,
183     "LarosateID": -1
184 },
185 {
186     "Benamning": {
187         "sv": "Knivsta",
188         "en": "Knivsta"
189     },
190     "Beskrivning": {},
191     "Dolt": false,
192     "Giltighetsperiod": {},
193     "ID": "29",
194     "Kod": "0330",
195     "LanID": 2,
196     "LarosateID": -1
197 },
198 {
199     "Benamning": {
200         "sv": "Heby",
201         "en": "Heby"
202     },
203     "Beskrivning": {
204         "sv": "\u00d6verf\u00f6rd fr\u00e5n V\u00e4stmanlands till Uppsala l\u00e4n"
205     },

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206     "Dolt": false,
207     "Giltighetsperiod": {
208         "Startdatum": "2007-01-01"
209     },
210     "ID": "30",
211     "Kod": "0331",
212     "LanID": 2,
213     "LarosateID": -1
214 },
215 {
216     "Benamning": {
217         "sv": "Tierp",
218         "en": "Tierp"
219     },
220     "Beskrivning": {},
221     "Dolt": false,
222     "Giltighetsperiod": {},
223     "ID": "31",
224     "Kod": "0360",
225     "LanID": 2,
226     "LarosateID": -1
227 },
228 {
229     "Benamning": {
230         "sv": "Uppsala",
231         "en": "Uppsala"
232     },
233     "Beskrivning": {},
234     "Dolt": false,
235     "Giltighetsperiod": {},
236     "ID": "32",
237     "Kod": "0380",
238     "LanID": 2,
239     "LarosateID": -1
240 },
241 {
242     "Benamning": {
243         "sv": "Enk\u00f6ping",
244         "en": "Enk\u00f6ping"
245     },
246     "Beskrivning": {},
247     "Dolt": false,
248     "Giltighetsperiod": {},
249     "ID": "33",
250     "Kod": "0381",
251     "LanID": 2,
252     "LarosateID": -1
253 },
254 {
255     "Benamning": {
256         "sv": "\u00d6sthammar",

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257         "en": "\u00d6sthammar"
258     },
259     "Beskrivning": {},
260     "Dolt": false,
261     "Giltighetsperiod": {},
262     "ID": "34",
263     "Kod": "0382",
264     "LanID": 2,
265     "LarosateID": -1
266 },
267 {
268     "Benamning": {
269         "sv": "Ving\u00e5ker",
270         "en": "Ving\u00e5ker"
271     },
272     "Beskrivning": {},
273     "Dolt": false,
274     "Giltighetsperiod": {},
275     "ID": "35",
276     "Kod": "0428",
277     "LanID": 3,
278     "LarosateID": -1
279 },
280 {
281     "Benamning": {
282         "sv": "Gnesta",
283         "en": "Gnesta"
284     },
285     "Beskrivning": {},
286     "Dolt": false,
287     "Giltighetsperiod": {},
288     "ID": "36",
289     "Kod": "0461",
290     "LanID": 3,
291     "LarosateID": -1
292 },
293 {
294     "Benamning": {
295         "sv": "Nyk\u00f6ping",
296         "en": "Nyk\u00f6ping"
297     },
298     "Beskrivning": {},
299     "Dolt": false,
300     "Giltighetsperiod": {},
301     "ID": "37",
302     "Kod": "0480",
303     "LanID": 3,
304     "LarosateID": -1
305 },
306 {
307     "Benamning": {

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308         "sv": "Oxel\u00f6sund",
309         "en": "Oxel\u00f6sund"
310     },
311     "Beskrivning": {},
312     "Dolt": false,
313     "Giltighetsperiod": {},
314     "ID": "38",
315     "Kod": "0481",
316     "LanID": 3,
317     "LarosateID": -1
318 },
319 {
320     "Benamning": {
321         "sv": "Flen",
322         "en": "Flen"
323     },
324     "Beskrivning": {},
325     "Dolt": false,
326     "Giltighetsperiod": {},
327     "ID": "39",
328     "Kod": "0482",
329     "LanID": 3,
330     "LarosateID": -1
331 },
332 {
333     "Benamning": {
334         "sv": "Katrineholm",
335         "en": "Katrineholm"
336     },
337     "Beskrivning": {},
338     "Dolt": false,
339     "Giltighetsperiod": {},
340     "ID": "40",
341     "Kod": "0483",
342     "LanID": 3,
343     "LarosateID": -1
344 },
345 {
346     "Benamning": {
347         "sv": "Eskilstuna",
348         "en": "Eskilstuna"
349     },
350     "Beskrivning": {},
351     "Dolt": false,
352     "Giltighetsperiod": {},
353     "ID": "41",
354     "Kod": "0484",
355     "LanID": 3,
356     "LarosateID": -1
357 },
358 {

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361         "en": "Str\u00e4ngn\u00e4s"
362     },
363     "Beskrivning": {},
364     "Dolt": false,
365     "Giltighetsperiod": {},
366     "ID": "42",
367     "Kod": "0486",
368     "LanID": 3,
369     "LarosateID": -1
370 },
371 {
372     "Benamning": {
373         "sv": "Aneby",
374         "en": "Aneby"
375     },
376     "Beskrivning": {},
377     "Dolt": false,
378     "Giltighetsperiod": {},
379     "ID": "57",
380     "Kod": "0604",
381     "LanID": 5,
382     "LarosateID": -1
383 },
384 {
385     "Benamning": {
386         "sv": "Gnosj\u00f6",
387         "en": "Gnosj\u00f6"
388     },
389     "Beskrivning": {},
390     "Dolt": false,
391     "Giltighetsperiod": {},
392     "ID": "58",
393     "Kod": "0617",
394     "LanID": 5,
395     "LarosateID": -1
396 },
397 {
398     "Benamning": {
399         "sv": "Mullsj\u00f6",
400         "en": "Mullsj\u00f6"
401     },
402     "Beskrivning": {
403         "sv": "\u00d6verf\u00f6rd fr\u00e5n Skaraborgs till J\u00f6nk\u00f6pings l\u00e4n"
404     },
405     "Dolt": false,
406     "Giltighetsperiod": {
407         "Startdatum": "1998-01-01"
408     },
409     "ID": "59",

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410     "Kod": "0642",
411     "LanID": 5,
412     "LarosateID": -1
413 },
414 {
415     "Benamning": {
416         "sv": "Habo",
417         "en": "Habo"
418     },
419     "Beskrivning": {
420         "sv": "\u00d6verf\u00f6rd fr\u00e5n Skaraborgs till J\u00f6nk\u00f6pings l\u00e4n"
421     },
422     "Dolt": false,
423     "Giltighetsperiod": {
424         "Startdatum": "1998-01-01"
425     },
426     "ID": "60",
427     "Kod": "0643",
428     "LanID": 5,
429     "LarosateID": -1
430 },
431 {
432     "Benamning": {
433         "sv": "Gislaved",
434         "en": "Gislaved"
435     },
436     "Beskrivning": {},
437     "Dolt": false,
438     "Giltighetsperiod": {},
439     "ID": "61",
440     "Kod": "0662",
441     "LanID": 5,
442     "LarosateID": -1
443 },
444 {
445     "Benamning": {
446         "sv": "Vaggeryd",
447         "en": "Vaggeryd"
448     },
449     "Beskrivning": {},
450     "Dolt": false,
451     "Giltighetsperiod": {},
452     "ID": "62",
453     "Kod": "0665",
454     "LanID": 5,
455     "LarosateID": -1
456 },
457 {
458     "Benamning": {
459         "sv": "J\u00f6nk\u00f6ping",
460         "en": "J\u00f6nk\u00f6ping"

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461     },
462     "Beskrivning": {},
463     "Dolt": false,
464     "Giltighetsperiod": {},
465     "ID": "63",
466     "Kod": "0680",
467     "LanID": 5,
468     "LarosateID": -1
469 },
470 {
471     "Benamning": {
472         "sv": "N\u00e4ssj\u00f6",
473         "en": "N\u00e4ssj\u00f6"
474     },
475     "Beskrivning": {},
476     "Dolt": false,
477     "Giltighetsperiod": {},
478     "ID": "64",
479     "Kod": "0682",
480     "LanID": 5,
481     "LarosateID": -1
482 },
483 {
484     "Benamning": {
485         "sv": "V\u00e4rnamo",
486         "en": "V\u00e4rnamo"
487     },
488     "Beskrivning": {},
489     "Dolt": false,
490     "Giltighetsperiod": {},
491     "ID": "65",
492     "Kod": "0683",
493     "LanID": 5,
494     "LarosateID": -1
495 },
496 {
497     "Benamning": {
498         "sv": "S\u00e4vsj\u00f6",
499         "en": "S\u00e4vsj\u00f6"
500     },
501     "Beskrivning": {},
502     "Dolt": false,
503     "Giltighetsperiod": {},
504     "ID": "66",
505     "Kod": "0684",
506     "LanID": 5,
507     "LarosateID": -1
508 },
509 {
510     "Benamning": {
511         "sv": "Vetlanda",

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512     "en": "Vetlanda"
513 },
514 "Beskrivning": {},
515 "Dolt": false,
516 "Giltighetsperiod": {},
517 "ID": "67",
518 "Kod": "0685",
519 "LanID": 5,
520 "LarosateID": -1
521 },
522 {
523   "Benamning": {
524     "sv": "Eksj\u00f6",
525     "en": "Eksj\u00f6"
526   },
527   "Beskrivning": {},
528   "Dolt": false,
529   "Giltighetsperiod": {},
530   "ID": "68",
531   "Kod": "0686",
532   "LanID": 5,
533   "LarosateID": -1
534 },
535 {
536   "Benamning": {
537     "sv": "Tran\u00e5",
538     "en": "Tran\u00e5"
539   },
540   "Beskrivning": {},
541   "Dolt": false,
542   "Giltighetsperiod": {},
543   "ID": "69",
544   "Kod": "0687",
545   "LanID": 5,
546   "LarosateID": -1
547 },
548 {
549   "Benamning": {
550     "sv": "Uppvidinge",
551     "en": "Uppvidinge"
552   },
553   "Beskrivning": {},
554   "Dolt": false,
555   "Giltighetsperiod": {},
556   "ID": "70",
557   "Kod": "0760",
558   "LanID": 6,
559   "LarosateID": -1
560 },
561 {
562   "Benamning": {

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563     "sv": "Nybro",
564     "en": "Nybro"
565 },
566 "Beskrivning": {},
567 "Dolt": false,
568 "Giltighetsperiod": {},
569 "ID": "85",
570 "Kod": "0881",
571 "LanID": 7,
572 "LarosateID": -1
573 },
574 {
575     "Benamning": {
576         "sv": "Oskarshamn",
577         "en": "Oskarshamn"
578     },
579     "Beskrivning": {},
580     "Dolt": false,
581     "Giltighetsperiod": {},
582     "ID": "86",
583     "Kod": "0882",
584     "LanID": 7,
585     "LarosateID": -1
586 },
587 {
588     "Benamning": {
589         "sv": "V\u00e4stervik",
590         "en": "V\u00e4stervik"
591     },
592     "Beskrivning": {},
593     "Dolt": false,
594     "Giltighetsperiod": {},
595     "ID": "87",
596     "Kod": "0883",
597     "LanID": 7,
598     "LarosateID": -1
599 },
600 {
601     "Benamning": {
602         "sv": "Vimmerby",
603         "en": "Vimmerby"
604     },
605     "Beskrivning": {},
606     "Dolt": false,
607     "Giltighetsperiod": {},
608     "ID": "88",
609     "Kod": "0884",
610     "LanID": 7,
611     "LarosateID": -1
612 },
613 {

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614     "Benamning": {
615         "sv": "Borgholm",
616         "en": "Borgholm"
617     },
618     "Beskrivning": {},
619     "Dolt": false,
620     "Giltighetsperiod": {},
621     "ID": "89",
622     "Kod": "0885",
623     "LanID": 7,
624     "LarosateID": -1
625 },
626 {
627     "Benamning": {
628         "sv": "Gotland",
629         "en": "Gotland"
630     },
631     "Beskrivning": {},
632     "Dolt": false,
633     "Giltighetsperiod": {},
634     "ID": "90",
635     "Kod": "0980",
636     "LanID": 8,
637     "LarosateID": -1
638 },
639 {
640     "Benamning": {
641         "sv": "Olofstr\u00f6m",
642         "en": "Olofstr\u00f6m"
643     },
644     "Beskrivning": {},
645     "Dolt": false,
646     "Giltighetsperiod": {},
647     "ID": "91",
648     "Kod": "1060",
649     "LanID": 9,
650     "LarosateID": -1
651 },
652 {
653     "Benamning": {
654         "sv": "Karlskrona",
655         "en": "Karlskrona"
656     },
657     "Beskrivning": {},
658     "Dolt": false,
659     "Giltighetsperiod": {},
660     "ID": "92",
661     "Kod": "1080",
662     "LanID": 9,
663     "LarosateID": -1
664 },
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665     {
666         "Benamning": {
667             "sv": "Ronneby",
668             "en": "Ronneby"
669         },
670         "Beskrivning": {},
671         "Dolt": false,
672         "Giltighetsperiod": {},
673         "ID": "93",
674         "Kod": "1081",
675         "LanID": 9,
676         "LarosateID": -1
677     },
678     {
679         "Benamning": {
680             "sv": "Karlshamn",
681             "en": "Karlshamn"
682         },
683         "Beskrivning": {},
684         "Dolt": false,
685         "Giltighetsperiod": {},
686         "ID": "94",
687         "Kod": "1082",
688         "LanID": 9,
689         "LarosateID": -1
690     },
691     {
692         "Benamning": {
693             "sv": "S\u00f6lvesborg",
694             "en": "S\u00f6lvesborg"
695         },
696         "Beskrivning": {},
697         "Dolt": false,
698         "Giltighetsperiod": {},
699         "ID": "95",
700         "Kod": "1083",
701         "LanID": 9,
702         "LarosateID": -1
703     },
704     {
705         "Benamning": {
706             "sv": "Sval\u00f6",
707             "en": "Sval\u00f6"
708         },
709         "Beskrivning": {},
710         "Dolt": false,
711         "Giltighetsperiod": {},
712         "ID": "96",
713         "Kod": "1214",
714         "LanID": 10,
715         "LarosateID": -1

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716     },
717     {
718         "Benamning": {
719             "sv": "Staffanstorp",
720             "en": "Staffanstorp"
721         },
722         "Beskrivning": {},
723         "Dolt": false,
724         "Giltighetsperiod": {},
725         "ID": "97",
726         "Kod": "1230",
727         "LanID": 10,
728         "LarosateID": -1
729     },
730     {
731         "Benamning": {
732             "sv": "Burl\u00f6v",
733             "en": "Burl\u00f6v"
734         },
735         "Beskrivning": {},
736         "Dolt": false,
737         "Giltighetsperiod": {},
738         "ID": "98",
739         "Kod": "1231",
740         "LanID": 10,
741         "LarosateID": -1
742     },
743     {
744         "Benamning": {
745             "sv": "Perstorp",
746             "en": "Perstorp"
747         },
748         "Beskrivning": {},
749         "Dolt": false,
750         "Giltighetsperiod": {},
751         "ID": "113",
752         "Kod": "1275",
753         "LanID": 10,
754         "LarosateID": -1
755     },
756     {
757         "Benamning": {
758             "sv": "Klippan",
759             "en": "Klippan"
760         },
761         "Beskrivning": {},
762         "Dolt": false,
763         "Giltighetsperiod": {},
764         "ID": "114",
765         "Kod": "1276",
766         "LanID": 10,
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767     "LarosateID": -1
768 },
769 {
770     "Benamning": {
771         "sv": "\u00c5storp",
772         "en": "\u00c5storp"
773     },
774     "Beskrivning": {},
775     "Dolt": false,
776     "Giltighetsperiod": {},
777     "ID": "115",
778     "Kod": "1277",
779     "LanID": 10,
780     "LarosateID": -1
781 },
782 {
783     "Benamning": {
784         "sv": "B\u00e5stad",
785         "en": "B\u00e5stad"
786     },
787     "Beskrivning": {},
788     "Dolt": false,
789     "Giltighetsperiod": {},
790     "ID": "116",
791     "Kod": "1278",
792     "LanID": 10,
793     "LarosateID": -1
794 },
795 {
796     "Benamning": {
797         "sv": "Malm\u00f6",
798         "en": "Malm\u00f6"
799     },
800     "Beskrivning": {},
801     "Dolt": false,
802     "Giltighetsperiod": {},
803     "ID": "117",
804     "Kod": "1280",
805     "LanID": 10,
806     "LarosateID": -1
807 },
808 {
809     "Benamning": {
810         "sv": "Lund",
811         "en": "Lund"
812     },
813     "Beskrivning": {},
814     "Dolt": false,
815     "Giltighetsperiod": {},
816     "ID": "118",
817     "Kod": "1281",
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818     "LanID": 10,
819     "LarosateID": -1
820 },
821 {
822     "Benamning": {
823         "sv": "Landskrona",
824         "en": "Landskrona"
825     },
826     "Beskrivning": {},
827     "Dolt": false,
828     "Giltighetsperiod": {},
829     "ID": "119",
830     "Kod": "1282",
831     "LanID": 10,
832     "LarosateID": -1
833 },
834 {
835     "Benamning": {
836         "sv": "Helsingborg",
837         "en": "Helsingborg"
838     },
839     "Beskrivning": {},
840     "Dolt": false,
841     "Giltighetsperiod": {},
842     "ID": "120",
843     "Kod": "1283",
844     "LanID": 10,
845     "LarosateID": -1
846 },
847 {
848     "Benamning": {
849         "sv": "H\u00f6gan\u00e4s",
850         "en": "H\u00f6gan\u00e4s"
851     },
852     "Beskrivning": {},
853     "Dolt": false,
854     "Giltighetsperiod": {},
855     "ID": "121",
856     "Kod": "1284",
857     "LanID": 10,
858     "LarosateID": -1
859 },
860 {
861     "Benamning": {
862         "sv": "Esl\u00f6v",
863         "en": "Esl\u00f6v"
864     },
865     "Beskrivning": {},
866     "Dolt": false,
867     "Giltighetsperiod": {},
868     "ID": "122",

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869     "Kod": "1285",
870     "LanID": 10,
871     "LarosateID": -1
872 },
873 {
874     "Benamning": {
875         "sv": "Ystad",
876         "en": "Ystad"
877     },
878     "Beskrivning": {},
879     "Dolt": false,
880     "Giltighetsperiod": {},
881     "ID": "123",
882     "Kod": "1286",
883     "LanID": 10,
884     "LarosateID": -1
885 },
886 {
887     "Benamning": {
888         "sv": "Trelleborg",
889         "en": "Trelleborg"
890     },
891     "Beskrivning": {},
892     "Dolt": false,
893     "Giltighetsperiod": {},
894     "ID": "124",
895     "Kod": "1287",
896     "LanID": 10,
897     "LarosateID": -1
898 },
899 {
900     "Benamning": {
901         "sv": "Kristianstad",
902         "en": "Kristianstad"
903     },
904     "Beskrivning": {},
905     "Dolt": false,
906     "Giltighetsperiod": {},
907     "ID": "125",
908     "Kod": "1290",
909     "LanID": 10,
910     "LarosateID": -1
911 },
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913     "Benamning": {
914         "sv": "Simrishamn",
915         "en": "Simrishamn"
916     },
917     "Beskrivning": {},
918     "Dolt": false,
919     "Giltighetsperiod": {},
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922     "LanID": 10,
923     "LarosateID": -1
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928         "en": "Bengtsfors"
929     },
930     "Beskrivning": {},
931     "Dolt": false,
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933     "ID": "155",
934     "Kod": "1460",
935     "LanID": 12,
936     "LarosateID": -1
937 },
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939     "Benamning": {
940         "sv": "Mellerud",
941         "en": "Mellerud"
942     },
943     "Beskrivning": {},
944     "Dolt": false,
945     "Giltighetsperiod": {},
946     "ID": "156",
947     "Kod": "1461",
948     "LanID": 12,
949     "LarosateID": -1
950 },
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954         "en": "Lilla Edet"
955     },
956     "Beskrivning": {},
957     "Dolt": false,
958     "Giltighetsperiod": {},
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960     "Kod": "1462",
961     "LanID": 12,
962     "LarosateID": -1
963 },
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967         "en": "Mark"
968     },
969     "Beskrivning": {},
970     "Dolt": false,
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971     "Giltighetsperiod": {},
972     "ID": "158",
973     "Kod": "1463",
974     "LanID": 12,
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976 },
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979         "sv": "Svenljunga",
980         "en": "Svenljunga"
981     },
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983     "Dolt": false,
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986     "Kod": "1465",
987     "LanID": 12,
988     "LarosateID": -1
989 },
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992         "sv": "Herrljunga",
993         "en": "Herrljunga"
994     },
995     "Beskrivning": {},
996     "Dolt": false,
997     "Giltighetsperiod": {},
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999     "Kod": "1466",
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1001     "LarosateID": -1
1002 },
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1006         "en": "Vara"
1007     },
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1009     "Dolt": false,
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1013     "LanID": 12,
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1015 },
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1017     "Benamning": {
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1019         "en": "G\u00f6tene"
1020     },
1021     "Beskrivning": {},

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1024     "ID": "162",
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1032         "en": "Tibro"
1033     },
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1035     "Dolt": false,
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1038     "Kod": "1472",
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1040     "LarosateID": -1
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1044         "sv": "T\u00f6reboda",
1045         "en": "T\u00f6reboda"
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1047     "Beskrivning": {},
1048     "Dolt": false,
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1053     "LarosateID": -1
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1058         "en": "G\u00f6teborg"
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1060     "Beskrivning": {},
1061     "Dolt": false,
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1063     "ID": "165",
1064     "Kod": "1480",
1065     "LanID": 12,
1066     "LarosateID": -1
1067 },
1068 {
1069     "Benamning": {
1070         "sv": "M\u00f6lndal",
1071         "en": "M\u00f6lndal"
1072     },

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1074     "Dolt": false,
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1076     "ID": "166",
1077     "Kod": "1481",
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1079     "LarosateID": -1
1080 },
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1083         "sv": "Kung\u00e4lv",
1084         "en": "Kung\u00e4lv"
1085     },
1086     "Beskrivning": {},
1087     "Dolt": false,
1088     "Giltighetsperiod": {},
1089     "ID": "167",
1090     "Kod": "1482",
1091     "LanID": 12,
1092     "LarosateID": -1
1093 },
1094 {
1095     "Benamning": {
1096         "sv": "Lysekil",
1097         "en": "Lysekil"
1098     },
1099     "Beskrivning": {},
1100     "Dolt": false,
1101     "Giltighetsperiod": {},
1102     "ID": "168",
1103     "Kod": "1484",
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1105     "LarosateID": -1
1106 },
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1110         "en": "Uddevalla"
1111     },
1112     "Beskrivning": {},
1113     "Dolt": false,
1114     "Giltighetsperiod": {},
1115     "ID": "169",
1116     "Kod": "1485",
1117     "LanID": 12,
1118     "LarosateID": -1
1119 },
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1122         "sv": "Str\u00f6mstad",
1123         "en": "Str\u00f6mstad"
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1131     "LarosateID": -1
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1135         "sv": "V\u00e4nersborg",
1136         "en": "V\u00e4nersborg"
1137     },
1138     "Beskrivning": {},
1139     "Dolt": false,
1140     "Giltighetsperiod": {},
1141     "ID": "171",
1142     "Kod": "1487",
1143     "LanID": 12,
1144     "LarosateID": -1
1145 },
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1148         "sv": "Trollh\u00e4ttan",
1149         "en": "Trollh\u00e4ttan"
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1152     "Dolt": false,
1153     "Giltighetsperiod": {},
1154     "ID": "172",
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1156     "LanID": 12,
1157     "LarosateID": -1
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1160     "Benamning": {
1161         "sv": "Alings\u00e5s",
1162         "en": "Alings\u00e5s"
1163     },
1164     "Beskrivning": {},
1165     "Dolt": false,
1166     "Giltighetsperiod": {},
1167     "ID": "173",
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1169     "LanID": 12,
1170     "LarosateID": -1
1171 },
1172 {
1173     "Benamning": {
1174         "sv": "Bor\u00e5s",

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1175     "en": "Bor\u00e5s"
1176   },
1177   "Beskrivning": {},
1178   "Dolt": false,
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1181   "Kod": "1490",
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1183   "LarosateID": -1
1184 },
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1187     "sv": "Ulricehamn",
1188     "en": "Ulricehamn"
1189   },
1190   "Beskrivning": {},
1191   "Dolt": false,
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1193   "ID": "175",
1194   "Kod": "1491",
1195   "LanID": 12,
1196   "LarosateID": -1
1197 },
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1201     "en": "\u00c5m\u00e5l"
1202   },
1203   "Beskrivning": {},
1204   "Dolt": false,
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1206   "ID": "176",
1207   "Kod": "1492",
1208   "LanID": 12,
1209   "LarosateID": -1
1210 },
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1213     "sv": "Mariestad",
1214     "en": "Mariestad"
1215   },
1216   "Beskrivning": {},
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1218   "Giltighetsperiod": {},
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1222   "LarosateID": -1
1223 },
1224 {
1225   "Benamning": {
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1227         "en": "Lidk\u00f6ping"
1228     },
1229     "Beskrivning": {},
1230     "Dolt": false,
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1245     "ID": "193",
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1253         "en": "Karlstad"
1254     },
1255     "Beskrivning": {},
1256     "Dolt": false,
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1258     "ID": "194",
1259     "Kod": "1780",
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1261     "LarosateID": -1
1262 },
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1265         "sv": "Kristinehamn",
1266         "en": "Kristinehamn"
1267     },
1268     "Beskrivning": {},
1269     "Dolt": false,
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1273     "LanID": 13,
1274     "LarosateID": -1
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1276 {
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1279         "en": "Filipstad"
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1290     "Benamning": {
1291         "sv": "Hagfors",
1292         "en": "Hagfors"
1293     },
1294     "Beskrivning": {},
1295     "Dolt": false,
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1297     "ID": "197",
1298     "Kod": "1783",
1299     "LanID": 13,
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1303     "Benamning": {
1304         "sv": "Arvika",
1305         "en": "Arvika"
1306     },
1307     "Beskrivning": {},
1308     "Dolt": false,
1309     "Giltighetsperiod": {},
1310     "ID": "198",
1311     "Kod": "1784",
1312     "LanID": 13,
1313     "LarosateID": -1
1314 },
1315 {
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1317         "sv": "S\u00e4ffle",
1318         "en": "S\u00e4ffle"
1319     },
1320     "Beskrivning": {},
1321     "Dolt": false,
1322     "Giltighetsperiod": {},
1323     "ID": "199",
1324     "Kod": "1785",
1325     "LanID": 13,
1326     "LarosateID": -1
1327 },

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1330             "sv": "Lekeberg",
1331             "en": "Lekeberg"
1332         },
1333         "Beskrivning": {},
1334         "Dolt": false,
1335         "Giltighetsperiod": {},
1336         "ID": "200",
1337         "Kod": "1814",
1338         "LanID": 14,
1339         "LarosateID": -1
1340     },
1341     {
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1343             "sv": "Lax\u00e5",
1344             "en": "Lax\u00e5"
1345         },
1346         "Beskrivning": {},
1347         "Dolt": false,
1348         "Giltighetsperiod": {},
1349         "ID": "201",
1350         "Kod": "1860",
1351         "LanID": 14,
1352         "LarosateID": -1
1353     },
1354     {
1355         "Benamning": {
1356             "sv": "Hallsberg",
1357             "en": "Hallsberg"
1358         },
1359         "Beskrivning": {},
1360         "Dolt": false,
1361         "Giltighetsperiod": {},
1362         "ID": "202",
1363         "Kod": "1861",
1364         "LanID": 14,
1365         "LarosateID": -1
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1367     {
1368         "Benamning": {
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1370             "en": "Degerfors"
1371         },
1372         "Beskrivning": {},
1373         "Dolt": false,
1374         "Giltighetsperiod": {},
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1376         "Kod": "1862",
1377         "LanID": 14,
1378         "LarosateID": -1

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1382             "sv": "H\u00e4llefors",
1383             "en": "H\u00e4llefors"
1384         },
1385         "Beskrivning": {},
1386         "Dolt": false,
1387         "Giltighetsperiod": {},
1388         "ID": "204",
1389         "Kod": "1863",
1390         "LanID": 14,
1391         "LarosateID": -1
1392     },
1393     {
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1395             "sv": "Ljusnarsberg",
1396             "en": "Ljusnarsberg"
1397         },
1398         "Beskrivning": {},
1399         "Dolt": false,
1400         "Giltighetsperiod": {},
1401         "ID": "205",
1402         "Kod": "1864",
1403         "LanID": 14,
1404         "LarosateID": -1
1405     },
1406     {
1407         "Benamning": {
1408             "sv": "\u00d6rebro",
1409             "en": "\u00d6rebro"
1410         },
1411         "Beskrivning": {},
1412         "Dolt": false,
1413         "Giltighetsperiod": {},
1414         "ID": "206",
1415         "Kod": "1880",
1416         "LanID": 14,
1417         "LarosateID": -1
1418     },
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1421             "sv": "K\u00f6ping",
1422             "en": "K\u00f6ping"
1423         },
1424         "Beskrivning": {},
1425         "Dolt": false,
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1428         "Kod": "1983",
1429         "LanID": 15,
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1435         "en": "Arboga"
1436     },
1437     "Beskrivning": {},
1438     "Dolt": false,
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1442     "LanID": 15,
1443     "LarosateID": -1
1444 },
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1446     "Benamning": {
1447         "sv": "Vansbro",
1448         "en": "Vansbro"
1449     },
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1451     "Dolt": false,
1452     "Giltighetsperiod": {},
1453     "ID": "222",
1454     "Kod": "2021",
1455     "LanID": 16,
1456     "LarosateID": -1
1457 },
1458 {
1459     "Benamning": {
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1461         "en": "Malung-S\u00e4len"
1462     },
1463     "Beskrivning": {},
1464     "Dolt": false,
1465     "Giltighetsperiod": {},
1466     "ID": "223",
1467     "Kod": "2023",
1468     "LanID": 16,
1469     "LarosateID": -1
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1472     "Benamning": {
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1474         "en": "Gagnef"
1475     },
1476     "Beskrivning": {},
1477     "Dolt": false,
1478     "Giltighetsperiod": {},
1479     "ID": "224",
1480     "Kod": "2026",

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1483 },
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1487         "en": "Leksand"
1488     },
1489     "Beskrivning": {},
1490     "Dolt": false,
1491     "Giltighetsperiod": {},
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1493     "Kod": "2029",
1494     "LanID": 16,
1495     "LarosateID": -1
1496 },
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1500         "en": "R\u00e4ttvik"
1501     },
1502     "Beskrivning": {},
1503     "Dolt": false,
1504     "Giltighetsperiod": {},
1505     "ID": "226",
1506     "Kod": "2031",
1507     "LanID": 16,
1508     "LarosateID": -1
1509 },
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1512         "sv": "Orsa",
1513         "en": "Orsa"
1514     },
1515     "Beskrivning": {},
1516     "Dolt": false,
1517     "Giltighetsperiod": {},
1518     "ID": "227",
1519     "Kod": "2034",
1520     "LanID": 16,
1521     "LarosateID": -1
1522 },
1523 {
1524     "Benamning": {
1525         "sv": "\u00c4lvdalen",
1526         "en": "\u00c4lvdalen"
1527     },
1528     "Beskrivning": {},
1529     "Dolt": false,
1530     "Giltighetsperiod": {},
1531     "ID": "228",

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1533     "LanID": 16,
1534     "LarosateID": -1
1535 },
1536 {
1537     "Benamning": {
1538         "sv": "Smedjebacken",
1539         "en": "Smedjebacken"
1540     },
1541     "Beskrivning": {},
1542     "Dolt": false,
1543     "Giltighetsperiod": {},
1544     "ID": "229",
1545     "Kod": "2061",
1546     "LanID": 16,
1547     "LarosateID": -1
1548 },
1549 {
1550     "Benamning": {
1551         "sv": "Mora",
1552         "en": "Mora"
1553     },
1554     "Beskrivning": {},
1555     "Dolt": false,
1556     "Giltighetsperiod": {},
1557     "ID": "230",
1558     "Kod": "2062",
1559     "LanID": 16,
1560     "LarosateID": -1
1561 },
1562 {
1563     "Benamning": {
1564         "sv": "Falun",
1565         "en": "Falun"
1566     },
1567     "Beskrivning": {},
1568     "Dolt": false,
1569     "Giltighetsperiod": {},
1570     "ID": "231",
1571     "Kod": "2080",
1572     "LanID": 16,
1573     "LarosateID": -1
1574 },
1575 {
1576     "Benamning": {
1577         "sv": "Borl\u00e4nge",
1578         "en": "Borl\u00e4nge"
1579     },
1580     "Beskrivning": {},
1581     "Dolt": false,
1582     "Giltighetsperiod": {},
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1584     "Kod": "2081",
1585     "LanID": 16,
1586     "LarosateID": -1
1587 },
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1590         "sv": "S\u00e4ter",
1591         "en": "S\u00e4ter"
1592     },
1593     "Beskrivning": {},
1594     "Dolt": false,
1595     "Giltighetsperiod": {},
1596     "ID": "233",
1597     "Kod": "2082",
1598     "LanID": 16,
1599     "LarosateID": -1
1600 },
1601 {
1602     "Benamning": {
1603         "sv": "Timr\u00e5",
1604         "en": "Timr\u00e5"
1605     },
1606     "Beskrivning": {},
1607     "Dolt": false,
1608     "Giltighetsperiod": {},
1609     "ID": "248",
1610     "Kod": "2262",
1611     "LanID": 18,
1612     "LarosateID": -1
1613 },
1614 {
1615     "Benamning": {
1616         "sv": "H\u00e4rn\u00f6sand",
1617         "en": "H\u00e4rn\u00f6sand"
1618     },
1619     "Beskrivning": {},
1620     "Dolt": false,
1621     "Giltighetsperiod": {},
1622     "ID": "249",
1623     "Kod": "2280",
1624     "LanID": 18,
1625     "LarosateID": -1
1626 },
1627 {
1628     "Benamning": {
1629         "sv": "Sundsvall",
1630         "en": "Sundsvall"
1631     },
1632     "Beskrivning": {},
1633     "Dolt": false,

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1634     "Giltighetsperiod": {},
1635     "ID": "250",
1636     "Kod": "2281",
1637     "LanID": 18,
1638     "LarosateID": -1
1639 },
1640 {
1641     "Benamning": {
1642         "sv": "Kramfors",
1643         "en": "Kramfors"
1644     },
1645     "Beskrivning": {},
1646     "Dolt": false,
1647     "Giltighetsperiod": {},
1648     "ID": "251",
1649     "Kod": "2282",
1650     "LanID": 18,
1651     "LarosateID": -1
1652 },
1653 {
1654     "Benamning": {
1655         "sv": "Sollefte\u00e5",
1656         "en": "Sollefte\u00e5"
1657     },
1658     "Beskrivning": {},
1659     "Dolt": false,
1660     "Giltighetsperiod": {},
1661     "ID": "252",
1662     "Kod": "2283",
1663     "LanID": 18,
1664     "LarosateID": -1
1665 },
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1667     "Benamning": {
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1669         "en": "\u00d6rns\u00f6"
1670     },
1671     "Beskrivning": {},
1672     "Dolt": false,
1673     "Giltighetsperiod": {},
1674     "ID": "253",
1675     "Kod": "2284",
1676     "LanID": 18,
1677     "LarosateID": -1
1678 },
1679 {
1680     "Benamning": {
1681         "sv": "Ragunda",
1682         "en": "Ragunda"
1683     },
1684     "Beskrivning": {},

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1685     "Dolt": false,
1686     "Giltighetsperiod": {},
1687     "ID": "254",
1688     "Kod": "2303",
1689     "LanID": 19,
1690     "LarosateID": -1
1691 },
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1694         "sv": "Br\u00e4cke",
1695         "en": "Br\u00e4cke"
1696     },
1697     "Beskrivning": {},
1698     "Dolt": false,
1699     "Giltighetsperiod": {},
1700     "ID": "255",
1701     "Kod": "2305",
1702     "LanID": 19,
1703     "LarosateID": -1
1704 },
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1706     "Benamning": {
1707         "sv": "Krokom",
1708         "en": "Krokom"
1709     },
1710     "Beskrivning": {},
1711     "Dolt": false,
1712     "Giltighetsperiod": {},
1713     "ID": "256",
1714     "Kod": "2309",
1715     "LanID": 19,
1716     "LarosateID": -1
1717 },
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1719     "Benamning": {
1720         "sv": "Str\u00f6msund",
1721         "en": "Str\u00f6msund"
1722     },
1723     "Beskrivning": {},
1724     "Dolt": false,
1725     "Giltighetsperiod": {},
1726     "ID": "257",
1727     "Kod": "2313",
1728     "LanID": 19,
1729     "LarosateID": -1
1730 },
1731 {
1732     "Benamning": {
1733         "sv": "\u00c5re",
1734         "en": "\u00c5re"
1735     },

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1736     "Beskrivning": {},
1737     "Dolt": false,
1738     "Giltighetsperiod": {},
1739     "ID": "258",
1740     "Kod": "2321",
1741     "LanID": 19,
1742     "LarosateID": -1
1743 },
1744 {
1745     "Benamning": {
1746         "sv": "Berg",
1747         "en": "Berg"
1748     },
1749     "Beskrivning": {},
1750     "Dolt": false,
1751     "Giltighetsperiod": {},
1752     "ID": "259",
1753     "Kod": "2326",
1754     "LanID": 19,
1755     "LarosateID": -1
1756 },
1757 {
1758     "Benamning": {
1759         "sv": "H\u00e4rjedalen",
1760         "en": "H\u00e4rjedalen"
1761     },
1762     "Beskrivning": {},
1763     "Dolt": false,
1764     "Giltighetsperiod": {},
1765     "ID": "260",
1766     "Kod": "2361",
1767     "LanID": 19,
1768     "LarosateID": -1
1769 },
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1771     "Benamning": {
1772         "sv": "\u00d6stersund",
1773         "en": "\u00d6stersund"
1774     },
1775     "Beskrivning": {},
1776     "Dolt": false,
1777     "Giltighetsperiod": {},
1778     "ID": "261",
1779     "Kod": "2380",
1780     "LanID": 19,
1781     "LarosateID": -1
1782 },
1783 {
1784     "Benamning": {
1785         "sv": "Skellefte\u00e5",
1786         "en": "Skellefte\u00e5"

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1789     "Dolt": false,
1790     "Giltighetsperiod": {},
1791     "ID": "276",
1792     "Kod": "2482",
1793     "LanID": 20,
1794     "LarosateID": -1
1795 },
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1797     "Benamning": {
1798         "sv": "Arvidsjaur",
1799         "en": "Arvidsjaur"
1800     },
1801     "Beskrivning": {},
1802     "Dolt": false,
1803     "Giltighetsperiod": {},
1804     "ID": "277",
1805     "Kod": "2505",
1806     "LanID": 21,
1807     "LarosateID": -1
1808 },
1809 {
1810     "Benamning": {
1811         "sv": "Arjeplog",
1812         "en": "Arjeplog"
1813     },
1814     "Beskrivning": {},
1815     "Dolt": false,
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1817     "ID": "278",
1818     "Kod": "2506",
1819     "LanID": 21,
1820     "LarosateID": -1
1821 },
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1823     "Benamning": {
1824         "sv": "Jokkmokk",
1825         "en": "Jokkmokk"
1826     },
1827     "Beskrivning": {},
1828     "Dolt": false,
1829     "Giltighetsperiod": {},
1830     "ID": "279",
1831     "Kod": "2510",
1832     "LanID": 21,
1833     "LarosateID": -1
1834 },
1835 {
1836     "Benamning": {
1837         "sv": "\u00d6verkalix",
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1838         "en": "\u00d6verkalix"
1839     },
1840     "Beskrivning": {},
1841     "Dolt": false,
1842     "Giltighetsperiod": {},
1843     "ID": "280",
1844     "Kod": "2513",
1845     "LanID": 21,
1846     "LarosateID": -1
1847 },
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1849     "Benamning": {
1850         "sv": "Kalix",
1851         "en": "Kalix"
1852     },
1853     "Beskrivning": {},
1854     "Dolt": false,
1855     "Giltighetsperiod": {},
1856     "ID": "281",
1857     "Kod": "2514",
1858     "LanID": 21,
1859     "LarosateID": -1
1860 },
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1862     "Benamning": {
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1864         "en": "\u00d6vertorne\u00e5"
1865     },
1866     "Beskrivning": {},
1867     "Dolt": false,
1868     "Giltighetsperiod": {},
1869     "ID": "282",
1870     "Kod": "2518",
1871     "LanID": 21,
1872     "LarosateID": -1
1873 },
1874 {
1875     "Benamning": {
1876         "sv": "Pajala",
1877         "en": "Pajala"
1878     },
1879     "Beskrivning": {},
1880     "Dolt": false,
1881     "Giltighetsperiod": {},
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1884     "LanID": 21,
1885     "LarosateID": -1
1886 },
1887 {
1888     "Benamning": {
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1889         "sv": "G\u00e4llivare",
1890         "en": "G\u00e4llivare"
1891     },
1892     "Beskrivning": {},
1893     "Dolt": false,
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1895     "ID": "284",
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1903         "en": "\u00c4lvsbyn"
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1914     "Benamning": {
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1916         "en": "Lule\u00e5"
1917     },
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1925 },
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1929         "en": "Pite\u00e5"
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1931     "Beskrivning": {},
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1933     "Giltighetsperiod": {},
1934     "ID": "287",
1935     "Kod": "2581",
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1937     "LarosateID": -1
1938 },
1939 {

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1940     "Benamning": {
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1942         "en": "Boden"
1943     },
1944     "Beskrivning": {},
1945     "Dolt": false,
1946     "Giltighetsperiod": {},
1947     "ID": "288",
1948     "Kod": "2582",
1949     "LanID": 21,
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1952 {
1953     "Benamning": {
1954         "sv": "Haparanda",
1955         "en": "Haparanda"
1956     },
1957     "Beskrivning": {},
1958     "Dolt": false,
1959     "Giltighetsperiod": {},
1960     "ID": "289",
1961     "Kod": "2583",
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1965 {
1966     "Benamning": {
1967         "sv": "Kiruna",
1968         "en": "Kiruna"
1969     },
1970     "Beskrivning": {},
1971     "Dolt": false,
1972     "Giltighetsperiod": {},
1973     "ID": "290",
1974     "Kod": "2584",
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1977 },
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1979     "Benamning": {
1980         "sv": "Danderyd",
1981         "en": "Danderyd"
1982     },
1983     "Beskrivning": {},
1984     "Dolt": false,
1985     "Giltighetsperiod": {},
1986     "ID": "15",
1987     "Kod": "0162",
1988     "LanID": 1,
1989     "LarosateID": -1
1990 },

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1992         "Benamning": {
1993             "sv": "Sollentuna",
1994             "en": "Sollentuna"
1995         },
1996         "Beskrivning": {},
1997         "Dolt": false,
1998         "Giltighetsperiod": {},
1999         "ID": "16",
2000         "Kod": "0163",
2001         "LanID": 1,
2002         "LarosateID": -1
2003     },
2004     {
2005         "Benamning": {
2006             "sv": "Stockholm",
2007             "en": "Stockholm"
2008         },
2009         "Beskrivning": {},
2010         "Dolt": false,
2011         "Giltighetsperiod": {},
2012         "ID": "17",
2013         "Kod": "0180",
2014         "LanID": 1,
2015         "LarosateID": -1
2016     },
2017     {
2018         "Benamning": {
2019             "sv": "S\u00f6dert\u00e4lje",
2020             "en": "S\u00f6dert\u00e4lje"
2021         },
2022         "Beskrivning": {},
2023         "Dolt": false,
2024         "Giltighetsperiod": {},
2025         "ID": "18",
2026         "Kod": "0181",
2027         "LanID": 1,
2028         "LarosateID": -1
2029     },
2030     {
2031         "Benamning": {
2032             "sv": "Nacka",
2033             "en": "Nacka"
2034         },
2035         "Beskrivning": {},
2036         "Dolt": false,
2037         "Giltighetsperiod": {},
2038         "ID": "19",
2039         "Kod": "0182",
2040         "LanID": 1,
2041         "LarosateID": -1
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2045             "sv": "Sundbyberg",
2046             "en": "Sundbyberg"
2047         },
2048         "Beskrivning": {},
2049         "Dolt": false,
2050         "Giltighetsperiod": {},
2051         "ID": "20",
2052         "Kod": "0183",
2053         "LanID": 1,
2054         "LarosateID": -1
2055     },
2056     {
2057         "Benamning": {
2058             "sv": "Solna",
2059             "en": "Solna"
2060         },
2061         "Beskrivning": {},
2062         "Dolt": false,
2063         "Giltighetsperiod": {},
2064         "ID": "21",
2065         "Kod": "0184",
2066         "LanID": 1,
2067         "LarosateID": -1
2068     },
2069     {
2070         "Benamning": {
2071             "sv": "Liding\u00f6",
2072             "en": "Liding\u00f6"
2073         },
2074         "Beskrivning": {},
2075         "Dolt": false,
2076         "Giltighetsperiod": {},
2077         "ID": "22",
2078         "Kod": "0186",
2079         "LanID": 1,
2080         "LarosateID": -1
2081     },
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2083         "Benamning": {
2084             "sv": "Vaxholm",
2085             "en": "Vaxholm"
2086         },
2087         "Beskrivning": {},
2088         "Dolt": false,
2089         "Giltighetsperiod": {},
2090         "ID": "23",
2091         "Kod": "0187",
2092         "LanID": 1,
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2093     "LarosateID": -1
2094 },
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2096     "Benamning": {
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2098         "en": "Norrt\u00e4lje"
2099     },
2100     "Beskrivning": {},
2101     "Dolt": false,
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2103     "ID": "24",
2104     "Kod": "0188",
2105     "LanID": 1,
2106     "LarosateID": -1
2107 },
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2109     "Benamning": {
2110         "sv": "Sigtuna",
2111         "en": "Sigtuna"
2112     },
2113     "Beskrivning": {},
2114     "Dolt": false,
2115     "Giltighetsperiod": {},
2116     "ID": "25",
2117     "Kod": "0191",
2118     "LanID": 1,
2119     "LarosateID": -1
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2123         "sv": "Nyn\u00e4shamn",
2124         "en": "Nyn\u00e4shamn"
2125     },
2126     "Beskrivning": {},
2127     "Dolt": false,
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2129     "ID": "26",
2130     "Kod": "0192",
2131     "LanID": 1,
2132     "LarosateID": -1
2133 },
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2135     "Benamning": {
2136         "sv": "H\u00e4bo",
2137         "en": "H\u00e4bo"
2138     },
2139     "Beskrivning": {},
2140     "Dolt": false,
2141     "Giltighetsperiod": {},
2142     "ID": "27",
2143     "Kod": "0305",
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2144     "LanID": 2,  
2145     "LarosateID": -1  
2146 },  
2147 {  
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2150         "en": "\u00c4lvkarleby"  
2151     },  
2152     "Beskrivning": {},  
2153     "Dolt": false,  
2154     "Giltighetsperiod": {},  
2155     "ID": "28",  
2156     "Kod": "0319",  
2157     "LanID": 2,  
2158     "LarosateID": -1  
2159 },  
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2161     "Benamning": {  
2162         "sv": "Trosa",  
2163         "en": "Trosa"  
2164     },  
2165     "Beskrivning": {},  
2166     "Dolt": false,  
2167     "Giltighetsperiod": {},  
2168     "ID": "43",  
2169     "Kod": "0488",  
2170     "LanID": 3,  
2171     "LarosateID": -1  
2172 },  
2173 {  
2174     "Benamning": {  
2175         "sv": "\u00d6desh\u00f6g",  
2176         "en": "\u00d6desh\u00f6g"  
2177     },  
2178     "Beskrivning": {},  
2179     "Dolt": false,  
2180     "Giltighetsperiod": {},  
2181     "ID": "44",  
2182     "Kod": "0509",  
2183     "LanID": 4,  
2184     "LarosateID": -1  
2185 },  
2186 {  
2187     "Benamning": {  
2188         "sv": "Ydre",  
2189         "en": "Ydre"  
2190     },  
2191     "Beskrivning": {},  
2192     "Dolt": false,  
2193     "Giltighetsperiod": {},  
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2196     "LanID": 4,
2197     "LarosateID": -1
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2200     "Benamning": {
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2202         "en": "Kinda"
2203     },
2204     "Beskrivning": {},
2205     "Dolt": false,
2206     "Giltighetsperiod": {},
2207     "ID": "46",
2208     "Kod": "0513",
2209     "LanID": 4,
2210     "LarosateID": -1
2211 },
2212 {
2213     "Benamning": {
2214         "sv": "Boxholm",
2215         "en": "Boxholm"
2216     },
2217     "Beskrivning": {},
2218     "Dolt": false,
2219     "Giltighetsperiod": {},
2220     "ID": "47",
2221     "Kod": "0560",
2222     "LanID": 4,
2223     "LarosateID": -1
2224 },
2225 {
2226     "Benamning": {
2227         "sv": "\u00c5tvidaberg",
2228         "en": "\u00c5tvidaberg"
2229     },
2230     "Beskrivning": {},
2231     "Dolt": false,
2232     "Giltighetsperiod": {},
2233     "ID": "48",
2234     "Kod": "0561",
2235     "LanID": 4,
2236     "LarosateID": -1
2237 },
2238 {
2239     "Benamning": {
2240         "sv": "Finsp\u00e5ng",
2241         "en": "Finsp\u00e5ng"
2242     },
2243     "Beskrivning": {},
2244     "Dolt": false,
2245     "Giltighetsperiod": {},

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2247     "Kod": "0562",
2248     "LanID": 4,
2249     "LarosateID": -1
2250 },
2251 {
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2253         "sv": "Valdemarsvik",
2254         "en": "Valdemarsvik"
2255     },
2256     "Beskrivning": {},
2257     "Dolt": false,
2258     "Giltighetsperiod": {},
2259     "ID": "50",
2260     "Kod": "0563",
2261     "LanID": 4,
2262     "LarosateID": -1
2263 },
2264 {
2265     "Benamning": {
2266         "sv": "Link\u00f6ping",
2267         "en": "Link\u00f6ping"
2268     },
2269     "Beskrivning": {},
2270     "Dolt": false,
2271     "Giltighetsperiod": {},
2272     "ID": "51",
2273     "Kod": "0580",
2274     "LanID": 4,
2275     "LarosateID": -1
2276 },
2277 {
2278     "Benamning": {
2279         "sv": "Norrk\u00f6ping",
2280         "en": "Norrk\u00f6ping"
2281     },
2282     "Beskrivning": {},
2283     "Dolt": false,
2284     "Giltighetsperiod": {},
2285     "ID": "52",
2286     "Kod": "0581",
2287     "LanID": 4,
2288     "LarosateID": -1
2289 },
2290 {
2291     "Benamning": {
2292         "sv": "S\u00f6derk\u00f6ping",
2293         "en": "S\u00f6derk\u00f6ping"
2294     },
2295     "Beskrivning": {},
2296     "Dolt": false,
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2297     "Giltighetsperiod": {},
2298     "ID": "53",
2299     "Kod": "0582",
2300     "LanID": 4,
2301     "LarosateID": -1
2302 },
2303 {
2304     "Benamning": {
2305         "sv": "Motala",
2306         "en": "Motala"
2307     },
2308     "Beskrivning": {},
2309     "Dolt": false,
2310     "Giltighetsperiod": {},
2311     "ID": "54",
2312     "Kod": "0583",
2313     "LanID": 4,
2314     "LarosateID": -1
2315 },
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2318         "sv": "Vadstena",
2319         "en": "Vadstena"
2320     },
2321     "Beskrivning": {},
2322     "Dolt": false,
2323     "Giltighetsperiod": {},
2324     "ID": "55",
2325     "Kod": "0584",
2326     "LanID": 4,
2327     "LarosateID": -1
2328 },
2329 {
2330     "Benamning": {
2331         "sv": "Mj\u00f6lby",
2332         "en": "Mj\u00f6lby"
2333     },
2334     "Beskrivning": {},
2335     "Dolt": false,
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2337     "ID": "56",
2338     "Kod": "0586",
2339     "LanID": 4,
2340     "LarosateID": -1
2341 },
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2344         "sv": "Lessebo",
2345         "en": "Lessebo"
2346     },
2347     "Beskrivning": {},
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2349     "Giltighetsperiod": {},
2350     "ID": "71",
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2352     "LanID": 6,
2353     "LarosateID": -1
2354 },
2355 {
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2357         "sv": "Tingsryd",
2358         "en": "Tingsryd"
2359     },
2360     "Beskrivning": {},
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2365     "LanID": 6,
2366     "LarosateID": -1
2367 },
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2370         "sv": "Alvesta",
2371         "en": "Alvesta"
2372     },
2373     "Beskrivning": {},
2374     "Dolt": false,
2375     "Giltighetsperiod": {},
2376     "ID": "73",
2377     "Kod": "0764",
2378     "LanID": 6,
2379     "LarosateID": -1
2380 },
2381 {
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2384         "en": "\u00c4lmhult"
2385     },
2386     "Beskrivning": {},
2387     "Dolt": false,
2388     "Giltighetsperiod": {},
2389     "ID": "74",
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2391     "LanID": 6,
2392     "LarosateID": -1
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2395     "Benamning": {
2396         "sv": "Markaryd",
2397         "en": "Markaryd"
2398     },
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2402     "ID": "75",
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2404     "LanID": 6,
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2406 },
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2410         "en": "V\u00e4xj\u00f6"
2411     },
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2413     "Dolt": false,
2414     "Giltighetsperiod": {},
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2417     "LanID": 6,
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2419 },
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2423         "en": "Ljungby"
2424     },
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2426     "Dolt": false,
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2436         "en": "H\u00f6gsby"
2437     },
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2439     "Dolt": false,
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2441     "ID": "78",
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2443     "LanID": 7,
2444     "LarosateID": -1
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2449         "en": "Tors\u00e5s"
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2462         "en": "M\u00f6rby\u00e5nga"
2463     },
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2465     "Dolt": false,
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2469     "LanID": 7,
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2475         "en": "Hultsfred"
2476     },
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2496     "LarosateID": -1
2497 },
2498 {
2499     "Benamning": {
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2501         "en": "Emmaboda"
2502     },
2503     "Beskrivning": {},
2504     "Dolt": false,
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2506     "ID": "83",
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2510 },
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2512     "Benamning": {
2513         "sv": "Kalmar",
2514         "en": "Kalmar"
2515     },
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2517     "Dolt": false,
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2519     "ID": "84",
2520     "Kod": "0880",
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2522     "LarosateID": -1
2523 },
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2525     "Benamning": {
2526         "sv": "Vellinge",
2527         "en": "Vellinge"
2528     },
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2530     "Dolt": false,
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2532     "ID": "99",
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2534     "LanID": 10,
2535     "LarosateID": -1
2536 },
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2545     "ID": "100",
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2547     "LanID": 10,
2548     "LarosateID": -1
2549 },
2550 {
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2579         "en": "K\u00e4vlinge"
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2581     "Beskrivning": {},
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2592         "en": "Lomma"
2593     },
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2595     "Dolt": false,
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2599     "LanID": 10,
2600     "LarosateID": -1
2601 },
2602 {
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2605         "en": "Svedala"
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2618         "en": "Skurup"
2619     },
2620     "Beskrivning": {},
2621     "Dolt": false,
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2625     "LanID": 10,
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2630         "sv": "Sj\u00f6bo",
2631         "en": "Sj\u00f6bo"
2632     },
2633     "Beskrivning": {},
2634     "Dolt": false,
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2636     "ID": "107",
2637     "Kod": "1265",
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2640 },
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2643         "sv": "H\u00f6rby",
2644         "en": "H\u00f6rby"
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2648     "Giltighetsperiod": {},
2649     "ID": "108",
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2651     "LanID": 10,
2652     "LarosateID": -1
2653 },

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2657             "en": "H\u00f6\u00f6r"
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2660         "Dolt": false,
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2662         "ID": "109",
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2665         "LarosateID": -1
2666     },
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2670             "en": "Tomelilla"
2671         },
2672         "Beskrivning": {},
2673         "Dolt": false,
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2675         "ID": "110",
2676         "Kod": "1270",
2677         "LanID": 10,
2678         "LarosateID": -1
2679     },
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2681         "Benamning": {
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2683             "en": "Brom\u00f6l\u00f6"
2684         },
2685         "Beskrivning": {},
2686         "Dolt": false,
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2688         "ID": "111",
2689         "Kod": "1272",
2690         "LanID": 10,
2691         "LarosateID": -1
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2695             "sv": "Osby",
2696             "en": "Osby"
2697         },
2698         "Beskrivning": {},
2699         "Dolt": false,
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2701         "ID": "112",
2702         "Kod": "1273",
2703         "LanID": 10,
2704         "LarosateID": -1
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2705     },
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2708             "sv": "\u00c4ngelholm",
2709             "en": "\u00c4ngelholm"
2710         },
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2714         "ID": "127",
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2717         "LarosateID": -1
2718     },
2719     {
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2722             "en": "H\u00e4ssleholm"
2723         },
2724         "Beskrivning": {},
2725         "Dolt": false,
2726         "Giltighetsperiod": {},
2727         "ID": "128",
2728         "Kod": "1293",
2729         "LanID": 10,
2730         "LarosateID": -1
2731     },
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2735             "en": "Hylte"
2736         },
2737         "Beskrivning": {},
2738         "Dolt": false,
2739         "Giltighetsperiod": {},
2740         "ID": "129",
2741         "Kod": "1315",
2742         "LanID": 11,
2743         "LarosateID": -1
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2746         "Benamning": {
2747             "sv": "Halmstad",
2748             "en": "Halmstad"
2749         },
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2751         "Dolt": false,
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2753         "ID": "130",
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2755         "LanID": 11,

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2760         "sv": "Laholm",
2761         "en": "Laholm"
2762     },
2763     "Beskrivning": {},
2764     "Dolt": false,
2765     "Giltighetsperiod": {},
2766     "ID": "131",
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2768     "LanID": 11,
2769     "LarosateID": -1
2770 },
2771 {
2772     "Benamning": {
2773         "sv": "Falkenberg",
2774         "en": "Falkenberg"
2775     },
2776     "Beskrivning": {},
2777     "Dolt": false,
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2779     "ID": "132",
2780     "Kod": "1382",
2781     "LanID": 11,
2782     "LarosateID": -1
2783 },
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2785     "Benamning": {
2786         "sv": "Varberg",
2787         "en": "Varberg"
2788     },
2789     "Beskrivning": {},
2790     "Dolt": false,
2791     "Giltighetsperiod": {},
2792     "ID": "133",
2793     "Kod": "1383",
2794     "LanID": 11,
2795     "LarosateID": -1
2796 },
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2799         "sv": "Kungsbacka",
2800         "en": "Kungsbacka"
2801     },
2802     "Beskrivning": {},
2803     "Dolt": false,
2804     "Giltighetsperiod": {},
2805     "ID": "134",
2806     "Kod": "1384",
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2807     "LanID": 11,
2808     "LarosateID": -1
2809 },
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2813         "en": "H\u00e4rryda"
2814     },
2815     "Beskrivning": {},
2816     "Dolt": false,
2817     "Giltighetsperiod": {},
2818     "ID": "135",
2819     "Kod": "1401",
2820     "LanID": 12,
2821     "LarosateID": -1
2822 },
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2824     "Benamning": {
2825         "sv": "Partille",
2826         "en": "Partille"
2827     },
2828     "Beskrivning": {},
2829     "Dolt": false,
2830     "Giltighetsperiod": {},
2831     "ID": "136",
2832     "Kod": "1402",
2833     "LanID": 12,
2834     "LarosateID": -1
2835 },
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2837     "Benamning": {
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2839         "en": "\u00d6cker\u00f6"
2840     },
2841     "Beskrivning": {},
2842     "Dolt": false,
2843     "Giltighetsperiod": {},
2844     "ID": "137",
2845     "Kod": "1407",
2846     "LanID": 12,
2847     "LarosateID": -1
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2851         "sv": "Stenungsund",
2852         "en": "Stenungsund"
2853     },
2854     "Beskrivning": {},
2855     "Dolt": false,
2856     "Giltighetsperiod": {},
2857     "ID": "138",
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2860     "LarosateID": -1
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2865         "en": "Tj\u00f6rn"
2866     },
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2868     "Dolt": false,
2869     "Giltighetsperiod": {},
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2872     "LanID": 12,
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2874 },
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2876     "Benamning": {
2877         "sv": "Orust",
2878         "en": "Orust"
2879     },
2880     "Beskrivning": {},
2881     "Dolt": false,
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2884     "Kod": "1421",
2885     "LanID": 12,
2886     "LarosateID": -1
2887 },
2888 {
2889     "Benamning": {
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2891         "en": "Soten\u00e4s"
2892     },
2893     "Beskrivning": {},
2894     "Dolt": false,
2895     "Giltighetsperiod": {},
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2897     "Kod": "1427",
2898     "LanID": 12,
2899     "LarosateID": -1
2900 },
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2903         "sv": "Munkedal",
2904         "en": "Munkedal"
2905     },
2906     "Beskrivning": {},
2907     "Dolt": false,
2908     "Giltighetsperiod": {},
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2909     "ID": "142",
2910     "Kod": "1430",
2911     "LanID": 12,
2912     "LarosateID": -1
2913 },
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2915     "Benamning": {
2916         "sv": "Tanum",
2917         "en": "Tanum"
2918     },
2919     "Beskrivning": {},
2920     "Dolt": false,
2921     "Giltighetsperiod": {},
2922     "ID": "143",
2923     "Kod": "1435",
2924     "LanID": 12,
2925     "LarosateID": -1
2926 },
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2929         "sv": "Dals-Ed",
2930         "en": "Dals-Ed"
2931     },
2932     "Beskrivning": {},
2933     "Dolt": false,
2934     "Giltighetsperiod": {},
2935     "ID": "144",
2936     "Kod": "1438",
2937     "LanID": 12,
2938     "LarosateID": -1
2939 },
2940 {
2941     "Benamning": {
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2943         "en": "F\u00e4rgelanda"
2944     },
2945     "Beskrivning": {},
2946     "Dolt": false,
2947     "Giltighetsperiod": {},
2948     "ID": "145",
2949     "Kod": "1439",
2950     "LanID": 12,
2951     "LarosateID": -1
2952 },
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2954     "Benamning": {
2955         "sv": "Ale",
2956         "en": "Ale"
2957     },
2958     "Beskrivning": {},
2959     "Dolt": false,
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2960     "Giltighetsperiod": {},
2961     "ID": "146",
2962     "Kod": "1440",
2963     "LanID": 12,
2964     "LarosateID": -1
2965 },
2966 {
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2968         "sv": "Lerum",
2969         "en": "Lerum"
2970     },
2971     "Beskrivning": {},
2972     "Dolt": false,
2973     "Giltighetsperiod": {},
2974     "ID": "147",
2975     "Kod": "1441",
2976     "LanID": 12,
2977     "LarosateID": -1
2978 },
2979 {
2980     "Benamning": {
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2982         "en": "V\u00e5rg\u00e5rda"
2983     },
2984     "Beskrivning": {},
2985     "Dolt": false,
2986     "Giltighetsperiod": {},
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2988     "Kod": "1442",
2989     "LanID": 12,
2990     "LarosateID": -1
2991 },
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2994         "sv": "Bollebygd",
2995         "en": "Bollebygd"
2996     },
2997     "Beskrivning": {},
2998     "Dolt": false,
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3002     "LanID": 12,
3003     "LarosateID": -1
3004 },
3005 {
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3008         "en": "Gr\u00e4storp"
3009     },
3010     "Beskrivning": {},
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3013     "ID": "150",
3014     "Kod": "1444",
3015     "LanID": 12,
3016     "LarosateID": -1
3017 },
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3020         "sv": "Essunga",
3021         "en": "Essunga"
3022     },
3023     "Beskrivning": {},
3024     "Dolt": false,
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3026     "ID": "151",
3027     "Kod": "1445",
3028     "LanID": 12,
3029     "LarosateID": -1
3030 },
3031 {
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3033         "sv": "Karlsborg",
3034         "en": "Karlsborg"
3035     },
3036     "Beskrivning": {},
3037     "Dolt": false,
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3039     "ID": "152",
3040     "Kod": "1446",
3041     "LanID": 12,
3042     "LarosateID": -1
3043 },
3044 {
3045     "Benamning": {
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3047         "en": "Gullsp\u00e5ng"
3048     },
3049     "Beskrivning": {},
3050     "Dolt": false,
3051     "Giltighetsperiod": {},
3052     "ID": "153",
3053     "Kod": "1447",
3054     "LanID": 12,
3055     "LarosateID": -1
3056 },
3057 {
3058     "Benamning": {
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3060         "en": "Tranemo"
3061     },

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3063     "Dolt": false,
3064     "Giltighetsperiod": {},
3065     "ID": "154",
3066     "Kod": "1452",
3067     "LanID": 12,
3068     "LarosateID": -1
3069 },
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3071     "Benamning": {
3072         "sv": "Skara",
3073         "en": "Skara"
3074     },
3075     "Beskrivning": {},
3076     "Dolt": false,
3077     "Giltighetsperiod": {},
3078     "ID": "179",
3079     "Kod": "1495",
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3081     "LarosateID": -1
3082 },
3083 {
3084     "Benamning": {
3085         "sv": "Sk\u00f6vde",
3086         "en": "Sk\u00f6vde"
3087     },
3088     "Beskrivning": {},
3089     "Dolt": false,
3090     "Giltighetsperiod": {},
3091     "ID": "180",
3092     "Kod": "1496",
3093     "LanID": 12,
3094     "LarosateID": -1
3095 },
3096 {
3097     "Benamning": {
3098         "sv": "Hjo",
3099         "en": "Hjo"
3100     },
3101     "Beskrivning": {},
3102     "Dolt": false,
3103     "Giltighetsperiod": {},
3104     "ID": "181",
3105     "Kod": "1497",
3106     "LanID": 12,
3107     "LarosateID": -1
3108 },
3109 {
3110     "Benamning": {
3111         "sv": "Tidaholm",
3112         "en": "Tidaholm"
```



```

3113     },
3114     "Beskrivning": {},
3115     "Dolt": false,
3116     "Giltighetsperiod": {},
3117     "ID": "182",
3118     "Kod": "1498",
3119     "LanID": 12,
3120     "LarosateID": -1
3121 },
3122 {
3123     "Benamning": {
3124         "sv": "Falk\u00f6ping",
3125         "en": "Falk\u00f6ping"
3126     },
3127     "Beskrivning": {},
3128     "Dolt": false,
3129     "Giltighetsperiod": {},
3130     "ID": "183",
3131     "Kod": "1499",
3132     "LanID": 12,
3133     "LarosateID": -1
3134 },
3135 {
3136     "Benamning": {
3137         "sv": "Kil",
3138         "en": "Kil"
3139     },
3140     "Beskrivning": {},
3141     "Dolt": false,
3142     "Giltighetsperiod": {},
3143     "ID": "184",
3144     "Kod": "1715",
3145     "LanID": 13,
3146     "LarosateID": -1
3147 },
3148 {
3149     "Benamning": {
3150         "sv": "Eda",
3151         "en": "Eda"
3152     },
3153     "Beskrivning": {},
3154     "Dolt": false,
3155     "Giltighetsperiod": {},
3156     "ID": "185",
3157     "Kod": "1730",
3158     "LanID": 13,
3159     "LarosateID": -1
3160 },
3161 {
3162     "Benamning": {
3163         "sv": "Torsby",

```

```

3164         "en": "Torsby"
3165     },
3166     "Beskrivning": {},
3167     "Dolt": false,
3168     "Giltighetsperiod": {},
3169     "ID": "186",
3170     "Kod": "1737",
3171     "LanID": 13,
3172     "LarosateID": -1
3173 },
3174 {
3175     "Benamning": {
3176         "sv": "Storfors",
3177         "en": "Storfors"
3178     },
3179     "Beskrivning": {},
3180     "Dolt": false,
3181     "Giltighetsperiod": {},
3182     "ID": "187",
3183     "Kod": "1760",
3184     "LanID": 13,
3185     "LarosateID": -1
3186 },
3187 {
3188     "Benamning": {
3189         "sv": "Hammar\u00f6",
3190         "en": "Hammar\u00f6"
3191     },
3192     "Beskrivning": {},
3193     "Dolt": false,
3194     "Giltighetsperiod": {},
3195     "ID": "188",
3196     "Kod": "1761",
3197     "LanID": 13,
3198     "LarosateID": -1
3199 },
3200 {
3201     "Benamning": {
3202         "sv": "Munkfors",
3203         "en": "Munkfors"
3204     },
3205     "Beskrivning": {},
3206     "Dolt": false,
3207     "Giltighetsperiod": {},
3208     "ID": "189",
3209     "Kod": "1762",
3210     "LanID": 13,
3211     "LarosateID": -1
3212 },
3213 {
3214     "Benamning": {

```

```
3215         "sv": "Forshaga",
3216         "en": "Forshaga"
3217     },
3218     "Beskrivning": {},
3219     "Dolt": false,
3220     "Giltighetsperiod": {},
3221     "ID": "190",
3222     "Kod": "1763",
3223     "LanID": 13,
3224     "LarosateID": -1
3225 },
3226 {
3227     "Benamning": {
3228         "sv": "Grums",
3229         "en": "Grums"
3230     },
3231     "Beskrivning": {},
3232     "Dolt": false,
3233     "Giltighetsperiod": {},
3234     "ID": "191",
3235     "Kod": "1764",
3236     "LanID": 13,
3237     "LarosateID": -1
3238 },
3239 {
3240     "Benamning": {
3241         "sv": "\u00c5rj\u00e4ng",
3242         "en": "\u00c5rj\u00e4ng"
3243     },
3244     "Beskrivning": {},
3245     "Dolt": false,
3246     "Giltighetsperiod": {},
3247     "ID": "192",
3248     "Kod": "1765",
3249     "LanID": 13,
3250     "LarosateID": -1
3251 },
3252 {
3253     "Benamning": {
3254         "sv": "Kumla",
3255         "en": "Kumla"
3256     },
3257     "Beskrivning": {},
3258     "Dolt": false,
3259     "Giltighetsperiod": {},
3260     "ID": "207",
3261     "Kod": "1881",
3262     "LanID": 14,
3263     "LarosateID": -1
3264 },
3265 {
```

```
3266     "Benamning": {
3267         "sv": "Askersund",
3268         "en": "Askersund"
3269     },
3270     "Beskrivning": {},
3271     "Dolt": false,
3272     "Giltighetsperiod": {},
3273     "ID": "208",
3274     "Kod": "1882",
3275     "LanID": 14,
3276     "LarosateID": -1
3277 },
3278 {
3279     "Benamning": {
3280         "sv": "Karlskoga",
3281         "en": "Karlskoga"
3282     },
3283     "Beskrivning": {},
3284     "Dolt": false,
3285     "Giltighetsperiod": {},
3286     "ID": "209",
3287     "Kod": "1883",
3288     "LanID": 14,
3289     "LarosateID": -1
3290 },
3291 {
3292     "Benamning": {
3293         "sv": "Nora",
3294         "en": "Nora"
3295     },
3296     "Beskrivning": {},
3297     "Dolt": false,
3298     "Giltighetsperiod": {},
3299     "ID": "210",
3300     "Kod": "1884",
3301     "LanID": 14,
3302     "LarosateID": -1
3303 },
3304 {
3305     "Benamning": {
3306         "sv": "Lindesberg",
3307         "en": "Lindesberg"
3308     },
3309     "Beskrivning": {},
3310     "Dolt": false,
3311     "Giltighetsperiod": {},
3312     "ID": "211",
3313     "Kod": "1885",
3314     "LanID": 14,
3315     "LarosateID": -1
3316 },
```

```
3317 {
3318     "Benamning": {
3319         "sv": "Skinnskatteberg",
3320         "en": "Skinnskatteberg"
3321     },
3322     "Beskrivning": {},
3323     "Dolt": false,
3324     "Giltighetsperiod": {},
3325     "ID": "212",
3326     "Kod": "1904",
3327     "LanID": 15,
3328     "LarosateID": -1
3329 },
3330 {
3331     "Benamning": {
3332         "sv": "Surahammar",
3333         "en": "Surahammar"
3334     },
3335     "Beskrivning": {},
3336     "Dolt": false,
3337     "Giltighetsperiod": {},
3338     "ID": "213",
3339     "Kod": "1907",
3340     "LanID": 15,
3341     "LarosateID": -1
3342 },
3343 {
3344     "Benamning": {
3345         "sv": "Heby",
3346         "en": "Heby"
3347     },
3348     "Beskrivning": {
3349         "sv": "\u00d6verf\u00f6rd fr\u00e5n V\u00e4stmanlands till Uppsala l\u00e4n"
3350     },
3351     "Dolt": false,
3352     "Giltighetsperiod": {
3353         "Slutdatum": "2006-12-31"
3354     },
3355     "ID": "100000",
3356     "Kod": "1917",
3357     "LanID": 15,
3358     "LarosateID": -1
3359 },
3360 {
3361     "Benamning": {
3362         "sv": "Kungs\u00f6r",
3363         "en": "Kungs\u00f6r"
3364     },
3365     "Beskrivning": {},
3366     "Dolt": false,
3367     "Giltighetsperiod": {},
```

```

3368     "ID": "214",
3369     "Kod": "1960",
3370     "LanID": 15,
3371     "LarosateID": -1
3372 },
3373 {
3374     "Benamning": {
3375         "sv": "Hallstahammar",
3376         "en": "Hallstahammar"
3377     },
3378     "Beskrivning": {},
3379     "Dolt": false,
3380     "Giltighetsperiod": {},
3381     "ID": "215",
3382     "Kod": "1961",
3383     "LanID": 15,
3384     "LarosateID": -1
3385 },
3386 {
3387     "Benamning": {
3388         "sv": "Norberg",
3389         "en": "Norberg"
3390     },
3391     "Beskrivning": {},
3392     "Dolt": false,
3393     "Giltighetsperiod": {},
3394     "ID": "216",
3395     "Kod": "1962",
3396     "LanID": 15,
3397     "LarosateID": -1
3398 },
3399 {
3400     "Benamning": {
3401         "sv": "V\u00e4ster\u00e5s",
3402         "en": "V\u00e4ster\u00e5s"
3403     },
3404     "Beskrivning": {},
3405     "Dolt": false,
3406     "Giltighetsperiod": {},
3407     "ID": "217",
3408     "Kod": "1980",
3409     "LanID": 15,
3410     "LarosateID": -1
3411 },
3412 {
3413     "Benamning": {
3414         "sv": "Sala",
3415         "en": "Sala"
3416     },
3417     "Beskrivning": {},
3418     "Dolt": false,

```

```
3419     "Giltighetsperiod": {},
3420     "ID": "218",
3421     "Kod": "1981",
3422     "LanID": 15,
3423     "LarosateID": -1
3424 },
3425 {
3426     "Benamning": {
3427         "sv": "Fagersta",
3428         "en": "Fagersta"
3429     },
3430     "Beskrivning": {},
3431     "Dolt": false,
3432     "Giltighetsperiod": {},
3433     "ID": "219",
3434     "Kod": "1982",
3435     "LanID": 15,
3436     "LarosateID": -1
3437 },
3438 {
3439     "Benamning": {
3440         "sv": "Hedemora",
3441         "en": "Hedemora"
3442     },
3443     "Beskrivning": {},
3444     "Dolt": false,
3445     "Giltighetsperiod": {},
3446     "ID": "234",
3447     "Kod": "2083",
3448     "LanID": 16,
3449     "LarosateID": -1
3450 },
3451 {
3452     "Benamning": {
3453         "sv": "Avesta",
3454         "en": "Avesta"
3455     },
3456     "Beskrivning": {},
3457     "Dolt": false,
3458     "Giltighetsperiod": {},
3459     "ID": "235",
3460     "Kod": "2084",
3461     "LanID": 16,
3462     "LarosateID": -1
3463 },
3464 {
3465     "Benamning": {
3466         "sv": "Ludvika",
3467         "en": "Ludvika"
3468     },
3469     "Beskrivning": {},
```

```

3470     "Dolt": false,
3471     "Giltighetsperiod": {},
3472     "ID": "236",
3473     "Kod": "2085",
3474     "LanID": 16,
3475     "LarosateID": -1
3476 },
3477 {
3478     "Benamning": {
3479         "sv": "Ockelbo",
3480         "en": "Ockelbo"
3481     },
3482     "Beskrivning": {},
3483     "Dolt": false,
3484     "Giltighetsperiod": {},
3485     "ID": "237",
3486     "Kod": "2101",
3487     "LanID": 17,
3488     "LarosateID": -1
3489 },
3490 {
3491     "Benamning": {
3492         "sv": "Hofors",
3493         "en": "Hofors"
3494     },
3495     "Beskrivning": {},
3496     "Dolt": false,
3497     "Giltighetsperiod": {},
3498     "ID": "238",
3499     "Kod": "2104",
3500     "LanID": 17,
3501     "LarosateID": -1
3502 },
3503 {
3504     "Benamning": {
3505         "sv": "Ovan\u00e5ker",
3506         "en": "Ovan\u00e5ker"
3507     },
3508     "Beskrivning": {},
3509     "Dolt": false,
3510     "Giltighetsperiod": {},
3511     "ID": "239",
3512     "Kod": "2121",
3513     "LanID": 17,
3514     "LarosateID": -1
3515 },
3516 {
3517     "Benamning": {
3518         "sv": "Nordanstig",
3519         "en": "Nordanstig"
3520     },

```



```

3521     "Beskrivning": {},
3522     "Dolt": false,
3523     "Giltighetsperiod": {},
3524     "ID": "240",
3525     "Kod": "2132",
3526     "LanID": 17,
3527     "LarosateID": -1
3528 },
3529 {
3530     "Benamning": {
3531         "sv": "Ljusdal",
3532         "en": "Ljusdal"
3533     },
3534     "Beskrivning": {},
3535     "Dolt": false,
3536     "Giltighetsperiod": {},
3537     "ID": "241",
3538     "Kod": "2161",
3539     "LanID": 17,
3540     "LarosateID": -1
3541 },
3542 {
3543     "Benamning": {
3544         "sv": "G\u00e4vle",
3545         "en": "G\u00e4vle"
3546     },
3547     "Beskrivning": {},
3548     "Dolt": false,
3549     "Giltighetsperiod": {},
3550     "ID": "242",
3551     "Kod": "2180",
3552     "LanID": 17,
3553     "LarosateID": -1
3554 },
3555 {
3556     "Benamning": {
3557         "sv": "Sandviken",
3558         "en": "Sandviken"
3559     },
3560     "Beskrivning": {},
3561     "Dolt": false,
3562     "Giltighetsperiod": {},
3563     "ID": "243",
3564     "Kod": "2181",
3565     "LanID": 17,
3566     "LarosateID": -1
3567 },
3568 {
3569     "Benamning": {
3570         "sv": "S\u00f6derhamn",
3571         "en": "S\u00f6derhamn"

```

```
3572     },
3573     "Beskrivning": {},
3574     "Dolt": false,
3575     "Giltighetsperiod": {},
3576     "ID": "244",
3577     "Kod": "2182",
3578     "LanID": 17,
3579     "LarosateID": -1
3580 },
3581 {
3582     "Benamning": {
3583         "sv": "Bolln\u00e4s",
3584         "en": "Bolln\u00e4s"
3585     },
3586     "Beskrivning": {},
3587     "Dolt": false,
3588     "Giltighetsperiod": {},
3589     "ID": "245",
3590     "Kod": "2183",
3591     "LanID": 17,
3592     "LarosateID": -1
3593 },
3594 {
3595     "Benamning": {
3596         "sv": "Hudiksvall",
3597         "en": "Hudiksvall"
3598     },
3599     "Beskrivning": {},
3600     "Dolt": false,
3601     "Giltighetsperiod": {},
3602     "ID": "246",
3603     "Kod": "2184",
3604     "LanID": 17,
3605     "LarosateID": -1
3606 },
3607 {
3608     "Benamning": {
3609         "sv": "\u00c5nge",
3610         "en": "\u00c5nge"
3611     },
3612     "Beskrivning": {},
3613     "Dolt": false,
3614     "Giltighetsperiod": {},
3615     "ID": "247",
3616     "Kod": "2260",
3617     "LanID": 18,
3618     "LarosateID": -1
3619 },
3620 {
3621     "Benamning": {
3622         "sv": "Nordmaling",
```

```
3623         "en": "Nordmaling"
3624     },
3625     "Beskrivning": {},
3626     "Dolt": false,
3627     "Giltighetsperiod": {},
3628     "ID": "262",
3629     "Kod": "2401",
3630     "LanID": 20,
3631     "LarosateID": -1
3632 },
3633 {
3634     "Benamning": {
3635         "sv": "Bjurholm",
3636         "en": "Bjurholm"
3637     },
3638     "Beskrivning": {},
3639     "Dolt": false,
3640     "Giltighetsperiod": {},
3641     "ID": "263",
3642     "Kod": "2403",
3643     "LanID": 20,
3644     "LarosateID": -1
3645 },
3646 {
3647     "Benamning": {
3648         "sv": "Vindeln",
3649         "en": "Vindeln"
3650     },
3651     "Beskrivning": {},
3652     "Dolt": false,
3653     "Giltighetsperiod": {},
3654     "ID": "264",
3655     "Kod": "2404",
3656     "LanID": 20,
3657     "LarosateID": -1
3658 },
3659 {
3660     "Benamning": {
3661         "sv": "Robertsfors",
3662         "en": "Robertsfors"
3663     },
3664     "Beskrivning": {},
3665     "Dolt": false,
3666     "Giltighetsperiod": {},
3667     "ID": "265",
3668     "Kod": "2409",
3669     "LanID": 20,
3670     "LarosateID": -1
3671 },
3672 {
3673     "Benamning": {
```

```

3674         "sv": "Norsj\u00f6",
3675         "en": "Norsj\u00f6"
3676     },
3677     "Beskrivning": {},
3678     "Dolt": false,
3679     "Giltighetsperiod": {},
3680     "ID": "266",
3681     "Kod": "2417",
3682     "LanID": 20,
3683     "LarosateID": -1
3684 },
3685 {
3686     "Benamning": {
3687         "sv": "Mal\u00e5",
3688         "en": "Mal\u00e5"
3689     },
3690     "Beskrivning": {},
3691     "Dolt": false,
3692     "Giltighetsperiod": {},
3693     "ID": "267",
3694     "Kod": "2418",
3695     "LanID": 20,
3696     "LarosateID": -1
3697 },
3698 {
3699     "Benamning": {
3700         "sv": "Storuman",
3701         "en": "Storuman"
3702     },
3703     "Beskrivning": {},
3704     "Dolt": false,
3705     "Giltighetsperiod": {},
3706     "ID": "268",
3707     "Kod": "2421",
3708     "LanID": 20,
3709     "LarosateID": -1
3710 },
3711 {
3712     "Benamning": {
3713         "sv": "Sorsele",
3714         "en": "Sorsele"
3715     },
3716     "Beskrivning": {},
3717     "Dolt": false,
3718     "Giltighetsperiod": {},
3719     "ID": "269",
3720     "Kod": "2422",
3721     "LanID": 20,
3722     "LarosateID": -1
3723 },
3724 {

```

```
3725     "Benamning": {
3726       "sv": "Dorotea",
3727       "en": "Dorotea"
3728     },
3729     "Beskrivning": {},
3730     "Dolt": false,
3731     "Giltighetsperiod": {},
3732     "ID": "270",
3733     "Kod": "2425",
3734     "LanID": 20,
3735     "LarosateID": -1
3736   },
3737   {
3738     "Benamning": {
3739       "sv": "V\u00e4nn\u00e4s",
3740       "en": "V\u00e4nn\u00e4s"
3741     },
3742     "Beskrivning": {},
3743     "Dolt": false,
3744     "Giltighetsperiod": {},
3745     "ID": "271",
3746     "Kod": "2460",
3747     "LanID": 20,
3748     "LarosateID": -1
3749   },
3750   {
3751     "Benamning": {
3752       "sv": "Vilhelmina",
3753       "en": "Vilhelmina"
3754     },
3755     "Beskrivning": {},
3756     "Dolt": false,
3757     "Giltighetsperiod": {},
3758     "ID": "272",
3759     "Kod": "2462",
3760     "LanID": 20,
3761     "LarosateID": -1
3762   },
3763   {
3764     "Benamning": {
3765       "sv": "\u00c5sele",
3766       "en": "\u00c5sele"
3767     },
3768     "Beskrivning": {},
3769     "Dolt": false,
3770     "Giltighetsperiod": {},
3771     "ID": "273",
3772     "Kod": "2463",
3773     "LanID": 20,
3774     "LarosateID": -1
3775   },
```

```

3776     {
3777         "Benamning": {
3778             "sv": "Ume\u00e5",
3779             "en": "Ume\u00e5"
3780         },
3781         "Beskrivning": {},
3782         "Dolt": false,
3783         "Giltighetsperiod": {},
3784         "ID": "274",
3785         "Kod": "2480",
3786         "LanID": 20,
3787         "LarosateID": -1
3788     },
3789     {
3790         "Benamning": {
3791             "sv": "Lycksele",
3792             "en": "Lycksele"
3793         },
3794         "Beskrivning": {},
3795         "Dolt": false,
3796         "Giltighetsperiod": {},
3797         "ID": "275",
3798         "Kod": "2481",
3799         "LanID": 20,
3800         "LarosateID": -1
3801     }
3802 ]
3803 }

```

20.8 lander_JSON

```

839a <LadokSession data methods 126b>+=
# added by GQMJr
def lander_JSON(self):
    """
    Returns a dictionary of countries.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url + '/kataloginformation/internal/grunddata/land',
        headers=self.headers).json()
    return r

```

Let's add a test. This should return a dictionary.

```

839b <test functions 126a>+=
def test_lander_JSON():
    r = ladok.lander_JSON()
    assert type(r) == dict

```

This code is used in chunk 121.

The output looks like this:

```

1  {
2    "Land": [
3      {
4        "Benamning": {
5          "sv": "Sverige",
6          "en": "Sweden"
7        },
8        "Beskrivning": {},
9        "Dolt": false,
10       "Giltighetsperiod": {},
11       "ID": "184",
12       "Kod": "SE",
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14     },
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17         "sv": "F\u00f6renade Arabemiraten",
18         "en": "United Arab Emirates"
19       },
20       "Beskrivning": {},
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26     },
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30         "en": "Afghanistan"
31       },
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33       "Dolt": false,
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35       "ID": "2",
36       "Kod": "AF",
37       "LarosateID": -1
38     },
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42         "en": "Albania"
43       },
44       "Beskrivning": {},
45       "Dolt": false,
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47       "ID": "3",
48       "Kod": "AL",
49       "LarosateID": -1

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50     },
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52         "Benamning": {
53             "sv": "Armenien",
54             "en": "Armenia"
55         },
56         "Beskrivning": {},
57         "Dolt": false,
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59         "ID": "4",
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61         "LarosateID": -1
62     },
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65             "sv": "Angola",
66             "en": "Angola"
67         },
68         "Beskrivning": {},
69         "Dolt": false,
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71         "ID": "5",
72         "Kod": "AO",
73         "LarosateID": -1
74     },
75     {
76         "Benamning": {
77             "sv": "Argentina",
78             "en": "Argentina"
79         },
80         "Beskrivning": {},
81         "Dolt": false,
82         "Giltighetsperiod": {},
83         "ID": "6",
84         "Kod": "AR",
85         "LarosateID": -1
86     },
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88         "Benamning": {
89             "sv": "\u00d6sterrike",
90             "en": "Austria"
91         },
92         "Beskrivning": {},
93         "Dolt": false,
94         "Giltighetsperiod": {},
95         "ID": "7",
96         "Kod": "AT",
97         "LarosateID": -1
98     },
99     {
100         "Benamning": {

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101     "sv": "Australien",
102     "en": "Australia"
103 },
104 "Beskrivning": {},
105 "Dolt": false,
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107 "ID": "8",
108 "Kod": "AU",
109 "LarosateID": -1
110 },
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114         "en": "Azerbaijan"
115     },
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117     "Dolt": false,
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121     "LarosateID": -1
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126         "en": "Bosnia and Herzegovina"
127     },
128     "Beskrivning": {},
129     "Dolt": false,
130     "Giltighetsperiod": {},
131     "ID": "10",
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143     "ID": "22",
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145     "LarosateID": -1
146 },
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148     "Benamning": {
149         "sv": "Bhutan",
150         "en": "Bhutan"
151     },
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163     },
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170 },
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174         "en": "Belarus"
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177         "sv": "Vitryssland. Fr\u00e5n 2019-11-24 anv\u00e4nder Utrikesdepartementet officiellt namnet Be
178     },
179     "Dolt": false,
180     "Giltighetsperiod": {},
181     "ID": "25",
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186     "Benamning": {
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190     "Beskrivning": {},
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196 },
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198     "Benamning": {
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200         "en": "Canada"
201     },
202     "Beskrivning": {},

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203     "Dolt": false,
204     "Giltighetsperiod": {},
205     "ID": "27",
206     "Kod": "CA",
207     "LarosateID": -1
208 },
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210     "Benamning": {
211         "sv": "Demokratiska republiken Kongo",
212         "en": "Democratic Republic of the Congo"
213     },
214     "Beskrivning": {
215         "sv": "Kongo-Kinshasa (f.d. Zaire)"
216     },
217     "Dolt": false,
218     "Giltighetsperiod": {},
219     "ID": "28",
220     "Kod": "CD",
221     "LarosateID": -1
222 },
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224     "Benamning": {
225         "sv": "Centralafrikanska republiken",
226         "en": "Central African Republic"
227     },
228     "Beskrivning": {},
229     "Dolt": false,
230     "Giltighetsperiod": {},
231     "ID": "29",
232     "Kod": "CF",
233     "LarosateID": -1
234 },
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236     "Benamning": {
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238         "en": "Congo"
239     },
240     "Beskrivning": {
241         "sv": "Kongo-Brazzaville"
242     },
243     "Dolt": false,
244     "Giltighetsperiod": {},
245     "ID": "30",
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247     "LarosateID": -1
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250     "Benamning": {
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252         "en": "Switzerland"
253     },
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255     "Dolt": false,
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257     "ID": "31",
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264         "en": "C\u00f4te d'Ivoire"
265     },
266     "Beskrivning": {},
267     "Dolt": false,
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269     "ID": "32",
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271     "LarosateID": -1
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274     "Benamning": {
275         "sv": "Chile",
276         "en": "Chile"
277     },
278     "Beskrivning": {},
279     "Dolt": false,
280     "Giltighetsperiod": {},
281     "ID": "33",
282     "Kod": "CL",
283     "LarosateID": -1
284 },
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286     "Benamning": {
287         "sv": "Kamerun",
288         "en": "Cameroon"
289     },
290     "Beskrivning": {},
291     "Dolt": false,
292     "Giltighetsperiod": {},
293     "ID": "34",
294     "Kod": "CM",
295     "LarosateID": -1
296 },
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298     "Benamning": {
299         "sv": "Kina",
300         "en": "China"
301     },
302     "Beskrivning": {},
303     "Dolt": false,
304     "Giltighetsperiod": {},

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305     "ID": "35",
306     "Kod": "CN",
307     "LarosateID": -1
308 },
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310     "Benamning": {
311         "sv": "Colombia",
312         "en": "Colombia"
313     },
314     "Beskrivning": {},
315     "Dolt": false,
316     "Giltighetsperiod": {},
317     "ID": "36",
318     "Kod": "CO",
319     "LarosateID": -1
320 },
321 {
322     "Benamning": {
323         "sv": "Costa Rica",
324         "en": "Costa Rica"
325     },
326     "Beskrivning": {},
327     "Dolt": false,
328     "Giltighetsperiod": {},
329     "ID": "37",
330     "Kod": "CR",
331     "LarosateID": -1
332 },
333 {
334     "Benamning": {
335         "sv": "Kuba",
336         "en": "Cuba"
337     },
338     "Beskrivning": {},
339     "Dolt": false,
340     "Giltighetsperiod": {},
341     "ID": "38",
342     "Kod": "CU",
343     "LarosateID": -1
344 },
345 {
346     "Benamning": {
347         "sv": "Kap Verde",
348         "en": "Cape Verde"
349     },
350     "Beskrivning": {},
351     "Dolt": false,
352     "Giltighetsperiod": {},
353     "ID": "39",
354     "Kod": "CV",
355     "LarosateID": -1
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356     },
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358         "Benamning": {
359             "sv": "Cypern",
360             "en": "Cyprus"
361         },
362         "Beskrivning": {},
363         "Dolt": false,
364         "Giltighetsperiod": {},
365         "ID": "40",
366         "Kod": "CY",
367         "LarosateID": -1
368     },
369     {
370         "Benamning": {
371             "sv": "Tjeckien",
372             "en": "Czech Republic"
373         },
374         "Beskrivning": {},
375         "Dolt": false,
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377         "ID": "41",
378         "Kod": "CZ",
379         "LarosateID": -1
380     },
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382         "Benamning": {
383             "sv": "Tyskland",
384             "en": "Germany"
385         },
386         "Beskrivning": {},
387         "Dolt": false,
388         "Giltighetsperiod": {},
389         "ID": "42",
390         "Kod": "DE",
391         "LarosateID": -1
392     },
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394         "Benamning": {
395             "sv": "Danmark",
396             "en": "Denmark"
397         },
398         "Beskrivning": {},
399         "Dolt": false,
400         "Giltighetsperiod": {},
401         "ID": "43",
402         "Kod": "DK",
403         "LarosateID": -1
404     },
405     {
406         "Benamning": {

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407         "sv": "Frankrike",
408         "en": "France"
409     },
410     "Beskrivning": {},
411     "Dolt": false,
412     "Giltighetsperiod": {},
413     "ID": "55",
414     "Kod": "FR",
415     "LarosateID": -1
416 },
417 {
418     "Benamning": {
419         "sv": "Gabon",
420         "en": "Gabon"
421     },
422     "Beskrivning": {},
423     "Dolt": false,
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425     "ID": "56",
426     "Kod": "GA",
427     "LarosateID": -1
428 },
429 {
430     "Benamning": {
431         "sv": "Storbritannien och Nordirland",
432         "en": "United Kingdom"
433     },
434     "Beskrivning": {
435         "sv": "F\u00f6renade kungariket - F\u00f6renade konungariket Storbritannien och Nordirland/United Kingdom"
436     },
437     "Dolt": false,
438     "Giltighetsperiod": {},
439     "ID": "57",
440     "Kod": "GB",
441     "LarosateID": -1
442 },
443 {
444     "Benamning": {
445         "sv": "Grenada",
446         "en": "Grenada"
447     },
448     "Beskrivning": {},
449     "Dolt": false,
450     "Giltighetsperiod": {},
451     "ID": "58",
452     "Kod": "GD",
453     "LarosateID": -1
454 },
455 {
456     "Benamning": {
457         "sv": "Georgien",

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458     "en": "Georgia"
459 },
460 "Beskrivning": {},
461 "Dolt": false,
462 "Giltighetsperiod": {},
463 "ID": "59",
464 "Kod": "GE",
465 "LarosateID": -1
466 },
467 {
468     "Benamning": {
469         "sv": "Ghana",
470         "en": "Ghana"
471     },
472     "Beskrivning": {},
473     "Dolt": false,
474     "Giltighetsperiod": {},
475     "ID": "60",
476     "Kod": "GH",
477     "LarosateID": -1
478 },
479 {
480     "Benamning": {
481         "sv": "Gr\u00f6nland",
482         "en": "Greenland"
483     },
484     "Beskrivning": {},
485     "Dolt": false,
486     "Giltighetsperiod": {},
487     "ID": "61",
488     "Kod": "GL",
489     "LarosateID": -1
490 },
491 {
492     "Benamning": {
493         "sv": "Gambia",
494         "en": "Gambia"
495     },
496     "Beskrivning": {},
497     "Dolt": false,
498     "Giltighetsperiod": {},
499     "ID": "62",
500     "Kod": "GM",
501     "LarosateID": -1
502 },
503 {
504     "Benamning": {
505         "sv": "Guinea",
506         "en": "Guinea"
507     },
508     "Beskrivning": {},

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510     "Giltighetsperiod": {},
511     "ID": "63",
512     "Kod": "GN",
513     "LarosateID": -1
514 },
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516     "Benamning": {
517         "sv": "Guadeloupe",
518         "en": "Guadeloupe"
519     },
520     "Beskrivning": {},
521     "Dolt": false,
522     "Giltighetsperiod": {},
523     "ID": "64",
524     "Kod": "GP",
525     "LarosateID": -1
526 },
527 {
528     "Benamning": {
529         "sv": "Ekvatorialguinea",
530         "en": "Equatorial Guinea"
531     },
532     "Beskrivning": {},
533     "Dolt": false,
534     "Giltighetsperiod": {},
535     "ID": "65",
536     "Kod": "GQ",
537     "LarosateID": -1
538 },
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540     "Benamning": {
541         "sv": "Israel",
542         "en": "Israel"
543     },
544     "Beskrivning": {},
545     "Dolt": false,
546     "Giltighetsperiod": {},
547     "ID": "77",
548     "Kod": "IL",
549     "LarosateID": -1
550 },
551 {
552     "Benamning": {
553         "sv": "Indien",
554         "en": "India"
555     },
556     "Beskrivning": {},
557     "Dolt": false,
558     "Giltighetsperiod": {},
559     "ID": "78",

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560     "Kod": "IN",
561     "LarosateID": -1
562 },
563 {
564     "Benamning": {
565         "sv": "Irak",
566         "en": "Iraq"
567     },
568     "Beskrivning": {},
569     "Dolt": false,
570     "Giltighetsperiod": {},
571     "ID": "79",
572     "Kod": "IQ",
573     "LarosateID": -1
574 },
575 {
576     "Benamning": {
577         "sv": "Iran",
578         "en": "Iran"
579     },
580     "Beskrivning": {},
581     "Dolt": false,
582     "Giltighetsperiod": {},
583     "ID": "80",
584     "Kod": "IR",
585     "LarosateID": -1
586 },
587 {
588     "Benamning": {
589         "sv": "Island",
590         "en": "Iceland"
591     },
592     "Beskrivning": {},
593     "Dolt": false,
594     "Giltighetsperiod": {},
595     "ID": "81",
596     "Kod": "IS",
597     "LarosateID": -1
598 },
599 {
600     "Benamning": {
601         "sv": "Italien",
602         "en": "Italy"
603     },
604     "Beskrivning": {},
605     "Dolt": false,
606     "Giltighetsperiod": {},
607     "ID": "82",
608     "Kod": "IT",
609     "LarosateID": -1
610 },

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612         "Benamning": {
613             "sv": "Jamaica",
614             "en": "Jamaica"
615         },
616         "Beskrivning": {},
617         "Dolt": false,
618         "Giltighetsperiod": {},
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620         "Kod": "JM",
621         "LarosateID": -1
622     },
623     {
624         "Benamning": {
625             "sv": "Jordanien",
626             "en": "Jordan"
627         },
628         "Beskrivning": {},
629         "Dolt": false,
630         "Giltighetsperiod": {},
631         "ID": "84",
632         "Kod": "JO",
633         "LarosateID": -1
634     },
635     {
636         "Benamning": {
637             "sv": "Japan",
638             "en": "Japan"
639         },
640         "Beskrivning": {},
641         "Dolt": false,
642         "Giltighetsperiod": {},
643         "ID": "85",
644         "Kod": "JP",
645         "LarosateID": -1
646     },
647     {
648         "Benamning": {
649             "sv": "Kenya",
650             "en": "Kenya"
651         },
652         "Beskrivning": {},
653         "Dolt": false,
654         "Giltighetsperiod": {},
655         "ID": "86",
656         "Kod": "KE",
657         "LarosateID": -1
658     },
659     {
660         "Benamning": {
661             "sv": "Kirgizistan",
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662     "en": "Kyrgyzstan"
663 },
664 "Beskrivning": {},
665 "Dolt": false,
666 "Giltighetsperiod": {},
667 "ID": "87",
668 "Kod": "KG",
669 "LarosateID": -1
670 },
671 {
672   "Benamning": {
673     "sv": "Lesotho",
674     "en": "Lesotho"
675   },
676   "Beskrivning": {},
677   "Dolt": false,
678   "Giltighetsperiod": {},
679   "ID": "99",
680   "Kod": "LS",
681   "LarosateID": -1
682 },
683 {
684   "Benamning": {
685     "sv": "Litauen",
686     "en": "Lithuania"
687   },
688   "Beskrivning": {},
689   "Dolt": false,
690   "Giltighetsperiod": {},
691   "ID": "100",
692   "Kod": "LT",
693   "LarosateID": -1
694 },
695 {
696   "Benamning": {
697     "sv": "Luxemburg",
698     "en": "Luxembourg"
699   },
700   "Beskrivning": {},
701   "Dolt": false,
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703   "ID": "101",
704   "Kod": "LU",
705   "LarosateID": -1
706 },
707 {
708   "Benamning": {
709     "sv": "Lettland",
710     "en": "Latvia"
711   },
712   "Beskrivning": {},

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713     "Dolt": false,
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715     "ID": "102",
716     "Kod": "LV",
717     "LarosateID": -1
718 },
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720     "Benamning": {
721         "sv": "Libyen",
722         "en": "Libya"
723     },
724     "Beskrivning": {},
725     "Dolt": false,
726     "Giltighetsperiod": {},
727     "ID": "103",
728     "Kod": "LY",
729     "LarosateID": -1
730 },
731 {
732     "Benamning": {
733         "sv": "Marocko",
734         "en": "Morocco"
735     },
736     "Beskrivning": {},
737     "Dolt": false,
738     "Giltighetsperiod": {},
739     "ID": "104",
740     "Kod": "MA",
741     "LarosateID": -1
742 },
743 {
744     "Benamning": {
745         "sv": "Monaco",
746         "en": "Monaco"
747     },
748     "Beskrivning": {},
749     "Dolt": false,
750     "Giltighetsperiod": {},
751     "ID": "105",
752     "Kod": "MC",
753     "LarosateID": -1
754 },
755 {
756     "Benamning": {
757         "sv": "Moldavien",
758         "en": "Moldova"
759     },
760     "Beskrivning": {},
761     "Dolt": false,
762     "Giltighetsperiod": {},
763     "ID": "106",
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764     "Kod": "MD",
765     "LarosateID": -1
766 },
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768     "Benamning": {
769         "sv": "Montenegro",
770         "en": "Montenegro"
771     },
772     "Beskrivning": {},
773     "Dolt": false,
774     "Giltighetsperiod": {},
775     "ID": "107",
776     "Kod": "ME",
777     "LarosateID": -1
778 },
779 {
780     "Benamning": {
781         "sv": "Madagaskar",
782         "en": "Madagascar"
783     },
784     "Beskrivning": {},
785     "Dolt": false,
786     "Giltighetsperiod": {},
787     "ID": "108",
788     "Kod": "MG",
789     "LarosateID": -1
790 },
791 {
792     "Benamning": {
793         "sv": "Nordmakedonien",
794         "en": "North Macedonia"
795     },
796     "Beskrivning": {
797         "sv": "F\u00f6re 2019-02-12 Makedonien eller F\u00f6re detta jugoslaviska republiken Makedonien"
798     },
799     "Dolt": false,
800     "Giltighetsperiod": {},
801     "ID": "109",
802     "Kod": "MK",
803     "LarosateID": -1
804 },
805 {
806     "Benamning": {
807         "sv": "Namibia",
808         "en": "Namibia"
809     },
810     "Beskrivning": {},
811     "Dolt": false,
812     "Giltighetsperiod": {},
813     "ID": "121",
814     "Kod": "NA",

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816   },
817   {
818     "Benamning": {
819       "sv": "Nya Kaledonien",
820       "en": "New Caledonia"
821     },
822     "Beskrivning": {},
823     "Dolt": false,
824     "Giltighetsperiod": {},
825     "ID": "122",
826     "Kod": "NC",
827     "LarosateID": -1
828   },
829   {
830     "Benamning": {
831       "sv": "Niger",
832       "en": "Niger"
833     },
834     "Beskrivning": {},
835     "Dolt": false,
836     "Giltighetsperiod": {},
837     "ID": "123",
838     "Kod": "NE",
839     "LarosateID": -1
840   },
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844       "en": "Nigeria"
845     },
846     "Beskrivning": {},
847     "Dolt": false,
848     "Giltighetsperiod": {},
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850     "Kod": "NG",
851     "LarosateID": -1
852   },
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855       "sv": "Nicaragua",
856       "en": "Nicaragua"
857     },
858     "Beskrivning": {},
859     "Dolt": false,
860     "Giltighetsperiod": {},
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862     "Kod": "NI",
863     "LarosateID": -1
864   },
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869     },
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881     },
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888 },
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893     },
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912 },
913 {
914     "Benamning": {
915         "sv": "Oman",
916         "en": "Oman"

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940         "en": "Serbia"
941     },
942     "Beskrivning": {},
943     "Dolt": false,
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954     "Beskrivning": {},
955     "Dolt": false,
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962     "Benamning": {
963         "sv": "Rwanda",
964         "en": "Rwanda"
965     },
966     "Beskrivning": {},
967     "Dolt": false,

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971     "LarosateID": -1
972 },
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976         "en": "Saudi Arabia"
977     },
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979     "Dolt": false,
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982     "Kod": "SA",
983     "LarosateID": -1
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988         "en": "Seychelles"
989     },
990     "Beskrivning": {},
991     "Dolt": false,
992     "Giltighetsperiod": {},
993     "ID": "147",
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995     "LarosateID": -1
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998     "Benamning": {
999         "sv": "Sudan",
1000         "en": "Sudan"
1001     },
1002     "Beskrivning": {},
1003     "Dolt": false,
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1011         "sv": "Singapore",
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1015     "Dolt": false,
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1108       "en": "Trinidad and Tobago"
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1132         "en": "Tanzania"
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1144         "en": "Ukraine"
1145     },
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1156         "en": "Uganda"
1157     },
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1166     "Benamning": {
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1169     },
1170     "Beskrivning": {
1171         "sv": "F\u00f6renta staterna/United States of America"

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1172     },
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1175     "ID": "173",
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1230         "en": "Dominica"
1231     },
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1233     "Dolt": false,
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1236     "Kod": "DM",
1237     "LarosateID": -1
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1242         "en": "Falkland Islands"
1243     },
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1245     "Dolt": false,
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1254         "en": "French Guiana"
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1266         "en": "French Polynesia"
1267     },
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1269     "Dolt": false,
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1290     "en": "Yugoslavia"
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1292   "Beskrivning": {},
1293   "Dolt": false,
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1295     "Slutdatum": "2003-02-04",
1296     "Startdatum": "1918-12-01"
1297   },
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1299   "Kod": "YU",
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1304     "sv": "Komorerna",
1305     "en": "Comoros"
1306   },
1307   "Beskrivning": {},
1308   "Dolt": false,
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1311   "Kod": "KM",
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1315   "Benamning": {
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1317     "en": "Kosovo"
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1322   "ID": "101026",
1323   "Kod": "XK",
1324   "LarosateID": -1
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1335         "Kod": "MH",
1336         "LarosateID": -1
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1341             "en": "Turks and Caicos Islands"
1342         },
1343         "Beskrivning": {},
1344         "Dolt": false,
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1347         "Kod": "TC",
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1353             "en": "Tuvalu"
1354         },
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1365             "en": "Western Sahara"
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1367         "Beskrivning": {},
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1377         "en": "\u00c5land Islands"
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1389         "en": "San Marino"
1390     },
1391     "Beskrivning": {},
1392     "Dolt": false,
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1395     "Kod": "SM",
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1401         "en": "Vanuatu"
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1411     "Benamning": {
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1413         "en": "European Union"
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1415     "Beskrivning": {
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1422     "LarosateID": -1
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1433 "Kod": "MV",
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1439     "en": "British Virgin Islands"
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1442   "Dolt": false,
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1457   "Kod": "VC",
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1463     "en": "Barbados"
1464   },
1465   "Beskrivning": {},
1466   "Dolt": false,
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1487         "en": "Belgium"
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1502     "Dolt": false,
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1505     "Kod": "BF",
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1526     "Dolt": false,
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1528     "ID": "16",
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1535         "en": "Burundi"
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1559         "en": "Brunei"
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1563     },
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1585       "en": "Brazil"
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1591     "Kod": "BR",
1592     "LarosateID": -1
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1594   {
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1597       "en": "Dominican Republic"
1598     },
1599     "Beskrivning": {},
1600     "Dolt": false,
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1609       "en": "Algeria"
1610     },
1611     "Beskrivning": {},
1612     "Dolt": false,
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1616     "LarosateID": -1
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1619     "Benamning": {
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1621       "en": "Ecuador"
1622     },
1623     "Beskrivning": {},
1624     "Dolt": false,
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1626     "ID": "46",
1627     "Kod": "EC",
1628     "LarosateID": -1
1629   },
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1633         "en": "Estonia"
1634     },
1635     "Beskrivning": {},
1636     "Dolt": false,
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1645         "en": "Egypt"
1646     },
1647     "Beskrivning": {},
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1660     "Dolt": false,
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1681         "en": "Ethiopia"

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1684     "Dolt": false,
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1695     "Beskrivning": {},
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1711     "Kod": "FJ",
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1717         "en": "Faroe Islands"
1718     },
1719     "Beskrivning": {},
1720     "Dolt": false,
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1725 },
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1727     "Benamning": {
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1729         "en": "Greece"
1730     },
1731     "Beskrivning": {},
1732     "Dolt": false,

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1741         "en": "Guatemala"
1742     },
1743     "Beskrivning": {},
1744     "Dolt": false,
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1747     "Kod": "GT",
1748     "LarosateID": -1
1749 },
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1751     "Benamning": {
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1753         "en": "Guinea-Bissau"
1754     },
1755     "Beskrivning": {},
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1763     "Benamning": {
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1765         "en": "Guyana"
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1767     "Beskrivning": {},
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1790     },
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1813       "en": "Haiti"
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1815     "Beskrivning": {},
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1838     },
1839     "Beskrivning": {},
1840     "Dolt": false,
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1843     "Kod": "ID",
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1845   },
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1847     "Benamning": {
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1873       "en": "Kiribati"
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1885       "en": "North Korea"
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1886     },
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1888       "sv": "Demokratiska folkrepubliken Korea/Democratic People's Republic of Korea"
1889     },
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1925       "en": "Kazakhstan"
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1927     "Beskrivning": {},
1928     "Dolt": false,
1929     "Giltighetsperiod": {},
1930     "ID": "93",
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1932     "LarosateID": -1
1933   },
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1935     "Benamning": {
1936       "sv": "Laos",

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1937         "en": "Laos"
1938     },
1939     "Beskrivning": {},
1940     "Dolt": false,
1941     "Giltighetsperiod": {},
1942     "ID": "94",
1943     "Kod": "LA",
1944     "LarosateID": -1
1945 },
1946 {
1947     "Benamning": {
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1949         "en": "Lebanon"
1950     },
1951     "Beskrivning": {},
1952     "Dolt": false,
1953     "Giltighetsperiod": {},
1954     "ID": "95",
1955     "Kod": "LB",
1956     "LarosateID": -1
1957 },
1958 {
1959     "Benamning": {
1960         "sv": "Liechtenstein",
1961         "en": "Liechtenstein"
1962     },
1963     "Beskrivning": {},
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1973         "en": "Sri Lanka"
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1983     "Benamning": {
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1985         "en": "Liberia"
1986     },
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1997         "en": "Mali"
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2000     "Dolt": false,
2001     "Giltighetsperiod": {},
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2003     "Kod": "ML",
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2008         "sv": "Myanmar",
2009         "en": "Myanmar"
2010     },
2011     "Beskrivning": {
2012         "sv": "Burma"
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2017     "Kod": "MM",
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2023         "en": "Mongolia"
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2025     "Beskrivning": {},
2026     "Dolt": false,
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2029     "Kod": "MN",
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2033     "Benamning": {
2034         "sv": "Macao",
2035         "en": "Macao"
2036     },
2037     "Beskrivning": {},
2038     "Dolt": false,
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2046         "sv": "Mauretanien",
2047         "en": "Mauritania"
2048     },
2049     "Beskrivning": {},
2050     "Dolt": false,
2051     "Giltighetsperiod": {},
2052     "ID": "114",
2053     "Kod": "MR",
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2057     "Benamning": {
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2059         "en": "Malta"
2060     },
2061     "Beskrivning": {},
2062     "Dolt": false,
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2064     "ID": "115",
2065     "Kod": "MT",
2066     "LarosateID": -1
2067 },
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2069     "Benamning": {
2070         "sv": "Mauritius",
2071         "en": "Mauritius"
2072     },
2073     "Beskrivning": {},
2074     "Dolt": false,
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2077     "Kod": "MU",
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2081     "Benamning": {
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2083         "en": "Malawi"
2084     },
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2088     "ID": "117",
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2093     "Benamning": {
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2095         "en": "Mexico"
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2097     "Beskrivning": {},
2098     "Dolt": false,
2099     "Giltighetsperiod": {},
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2101     "Kod": "MX",
2102     "LarosateID": -1
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2105     "Benamning": {
2106         "sv": "Malaysia",
2107         "en": "Malaysia"
2108     },
2109     "Beskrivning": {},
2110     "Dolt": false,
2111     "Giltighetsperiod": {},
2112     "ID": "119",
2113     "Kod": "MY",
2114     "LarosateID": -1
2115 },
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2117     "Benamning": {
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2119         "en": "Mozambique"
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2125     "Kod": "MZ",
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2129     "Benamning": {
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2131         "en": "Peru"
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2137     "Kod": "PE",
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2143       "en": "Papua New Guinea"
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2145     "Beskrivning": {},
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2149     "Kod": "PG",
2150     "LarosateID": -1
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2153     "Benamning": {
2154       "sv": "Filippinerna",
2155       "en": "Philippines"
2156     },
2157     "Beskrivning": {},
2158     "Dolt": false,
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2161     "Kod": "PH",
2162     "LarosateID": -1
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2164   {
2165     "Benamning": {
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2167       "en": "Pakistan"
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2169     "Beskrivning": {},
2170     "Dolt": false,
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2173     "Kod": "PK",
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2179       "en": "Poland"
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2182     "Dolt": false,
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2189     "Benamning": {
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2191       "en": "Puerto Rico"
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2194     "Dolt": false,
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2203         "en": "Palestine"
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2205     "Beskrivning": {},
2206     "Dolt": false,
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2213     "Benamning": {
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2215         "en": "Portugal"
2216     },
2217     "Beskrivning": {},
2218     "Dolt": false,
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2220     "ID": "139",
2221     "Kod": "PT",
2222     "LarosateID": -1
2223 },
2224 {
2225     "Benamning": {
2226         "sv": "Paraguay",
2227         "en": "Paraguay"
2228     },
2229     "Beskrivning": {},
2230     "Dolt": false,
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2233     "Kod": "PY",
2234     "LarosateID": -1
2235 },
2236 {
2237     "Benamning": {
2238         "sv": "Qatar",
2239         "en": "Qatar"
2240     },
2241     "Beskrivning": {},
2242     "Dolt": false,

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2244     "ID": "141",
2245     "Kod": "QA",
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2248 {
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2250         "sv": "Rum\u00e4nien",
2251         "en": "Romania"
2252     },
2253     "Beskrivning": {},
2254     "Dolt": false,
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2256     "ID": "142",
2257     "Kod": "RO",
2258     "LarosateID": -1
2259 },
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2261     "Benamning": {
2262         "sv": "Somalia",
2263         "en": "Somalia"
2264     },
2265     "Beskrivning": {},
2266     "Dolt": false,
2267     "Giltighetsperiod": {},
2268     "ID": "154",
2269     "Kod": "SO",
2270     "LarosateID": -1
2271 },
2272 {
2273     "Benamning": {
2274         "sv": "Surinam",
2275         "en": "Suriname"
2276     },
2277     "Beskrivning": {},
2278     "Dolt": false,
2279     "Giltighetsperiod": {},
2280     "ID": "155",
2281     "Kod": "SR",
2282     "LarosateID": -1
2283 },
2284 {
2285     "Benamning": {
2286         "sv": "S\u00e3o Tom\u00e9 och Pr\u00edncipe",
2287         "en": "S\u00e3o Tom\u00e9 and Pr\u00edncipe"
2288     },
2289     "Beskrivning": {},
2290     "Dolt": false,
2291     "Giltighetsperiod": {},
2292     "ID": "156",
2293     "Kod": "ST",

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2294     "LarosateID": -1
2295 },
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2297     "Benamning": {
2298         "sv": "El Salvador",
2299         "en": "El Salvador"
2300     },
2301     "Beskrivning": {},
2302     "Dolt": false,
2303     "Giltighetsperiod": {},
2304     "ID": "157",
2305     "Kod": "SV",
2306     "LarosateID": -1
2307 },
2308 {
2309     "Benamning": {
2310         "sv": "Syrien",
2311         "en": "Syria"
2312     },
2313     "Beskrivning": {},
2314     "Dolt": false,
2315     "Giltighetsperiod": {},
2316     "ID": "158",
2317     "Kod": "SY",
2318     "LarosateID": -1
2319 },
2320 {
2321     "Benamning": {
2322         "sv": "Eswatini",
2323         "en": "Eswatini"
2324     },
2325     "Beskrivning": {
2326         "sv": "Landet bytte namn fr\u00e5n Swaziland till Eswatini i april 2018"
2327     },
2328     "Dolt": false,
2329     "Giltighetsperiod": {},
2330     "ID": "159",
2331     "Kod": "SZ",
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2333 },
2334 {
2335     "Benamning": {
2336         "sv": "Tchad",
2337         "en": "Chad"
2338     },
2339     "Beskrivning": {},
2340     "Dolt": false,
2341     "Giltighetsperiod": {},
2342     "ID": "160",
2343     "Kod": "TD",
2344     "LarosateID": -1

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2345     },
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2348             "sv": "Togo",
2349             "en": "Togo"
2350         },
2351         "Beskrivning": {},
2352         "Dolt": false,
2353         "Giltighetsperiod": {},
2354         "ID": "161",
2355         "Kod": "TG",
2356         "LarosateID": -1
2357     },
2358     {
2359         "Benamning": {
2360             "sv": "Thailand",
2361             "en": "Thailand"
2362         },
2363         "Beskrivning": {},
2364         "Dolt": false,
2365         "Giltighetsperiod": {},
2366         "ID": "162",
2367         "Kod": "TH",
2368         "LarosateID": -1
2369     },
2370     {
2371         "Benamning": {
2372             "sv": "Tadzjikistan",
2373             "en": "Tajikistan"
2374         },
2375         "Beskrivning": {},
2376         "Dolt": false,
2377         "Giltighetsperiod": {},
2378         "ID": "163",
2379         "Kod": "TJ",
2380         "LarosateID": -1
2381     },
2382     {
2383         "Benamning": {
2384             "sv": "\u00d6sttimor",
2385             "en": "Timor-Leste"
2386         },
2387         "Beskrivning": {},
2388         "Dolt": false,
2389         "Giltighetsperiod": {},
2390         "ID": "164",
2391         "Kod": "TL",
2392         "LarosateID": -1
2393     },
2394     {
2395         "Benamning": {

```

```
2396         "sv": "Vatikanstaten",
2397         "en": "Vatican City State"
2398     },
2399     "Beskrivning": {
2400         "sv": "Heliga stolen/The Holy See"
2401     },
2402     "Dolt": false,
2403     "Giltighetsperiod": {},
2404     "ID": "176",
2405     "Kod": "VA",
2406     "LarosateID": -1
2407 },
2408 {
2409     "Benamning": {
2410         "sv": "Venezuela",
2411         "en": "Venezuela"
2412     },
2413     "Beskrivning": {},
2414     "Dolt": false,
2415     "Giltighetsperiod": {},
2416     "ID": "177",
2417     "Kod": "VE",
2418     "LarosateID": -1
2419 },
2420 {
2421     "Benamning": {
2422         "sv": "Vietnam",
2423         "en": "Viet Nam"
2424     },
2425     "Beskrivning": {},
2426     "Dolt": false,
2427     "Giltighetsperiod": {},
2428     "ID": "178",
2429     "Kod": "VN",
2430     "LarosateID": -1
2431 },
2432 {
2433     "Benamning": {
2434         "sv": "Samoa",
2435         "en": "Samoa"
2436     },
2437     "Beskrivning": {},
2438     "Dolt": false,
2439     "Giltighetsperiod": {},
2440     "ID": "179",
2441     "Kod": "WS",
2442     "LarosateID": -1
2443 },
2444 {
2445     "Benamning": {
2446         "sv": "Jemen",
```

```

2447         "en": "Yemen"
2448     },
2449     "Beskrivning": {},
2450     "Dolt": false,
2451     "Giltighetsperiod": {},
2452     "ID": "180",
2453     "Kod": "YE",
2454     "LarosateID": -1
2455 },
2456 {
2457     "Benamning": {
2458         "sv": "Sydafrika",
2459         "en": "South Africa"
2460     },
2461     "Beskrivning": {},
2462     "Dolt": false,
2463     "Giltighetsperiod": {},
2464     "ID": "181",
2465     "Kod": "ZA",
2466     "LarosateID": -1
2467 },
2468 {
2469     "Benamning": {
2470         "sv": "Zambia",
2471         "en": "Zambia"
2472     },
2473     "Beskrivning": {},
2474     "Dolt": false,
2475     "Giltighetsperiod": {},
2476     "ID": "182",
2477     "Kod": "ZM",
2478     "LarosateID": -1
2479 },
2480 {
2481     "Benamning": {
2482         "sv": "Zimbabwe",
2483         "en": "Zimbabwe"
2484     },
2485     "Beskrivning": {},
2486     "Dolt": false,
2487     "Giltighetsperiod": {},
2488     "ID": "183",
2489     "Kod": "ZW",
2490     "LarosateID": -1
2491 },
2492 {
2493     "Benamning": {
2494         "sv": "Amerikanska Jungfru\u00f6rarna",
2495         "en": "U.S. Virgin Islands"
2496     },
2497     "Beskrivning": {},

```

```
2498     "Dolt": false,
2499     "Giltighetsperiod": {},
2500     "ID": "101010",
2501     "Kod": "VI",
2502     "LarosateID": -1
2503 },
2504 {
2505     "Benamning": {
2506         "sv": "Amerikanska Samoa",
2507         "en": "American Samoa"
2508     },
2509     "Beskrivning": {},
2510     "Dolt": false,
2511     "Giltighetsperiod": {},
2512     "ID": "101011",
2513     "Kod": "AS",
2514     "LarosateID": -1
2515 },
2516 {
2517     "Benamning": {
2518         "sv": "Andorra",
2519         "en": "Andorra"
2520     },
2521     "Beskrivning": {},
2522     "Dolt": false,
2523     "Giltighetsperiod": {},
2524     "ID": "101012",
2525     "Kod": "AD",
2526     "LarosateID": -1
2527 },
2528 {
2529     "Benamning": {
2530         "sv": "Antigua och Barbuda",
2531         "en": "Antigua and Barbuda"
2532     },
2533     "Beskrivning": {},
2534     "Dolt": false,
2535     "Giltighetsperiod": {},
2536     "ID": "101013",
2537     "Kod": "AG",
2538     "LarosateID": -1
2539 },
2540 {
2541     "Benamning": {
2542         "sv": "Aruba",
2543         "en": "Aruba"
2544     },
2545     "Beskrivning": {},
2546     "Dolt": false,
2547     "Giltighetsperiod": {},
2548     "ID": "101014",
```



```
2549     "Kod": "AW",
2550     "LarosateID": -1
2551 },
2552 {
2553     "Benamning": {
2554         "sv": "Bermuda",
2555         "en": "Bermuda"
2556     },
2557     "Beskrivning": {},
2558     "Dolt": false,
2559     "Giltighetsperiod": {},
2560     "ID": "101015",
2561     "Kod": "BM",
2562     "LarosateID": -1
2563 },
2564 {
2565     "Benamning": {
2566         "sv": "Cayman\u00f6arna",
2567         "en": "Cayman Islands"
2568     },
2569     "Beskrivning": {},
2570     "Dolt": false,
2571     "Giltighetsperiod": {},
2572     "ID": "101016",
2573     "Kod": "KY",
2574     "LarosateID": -1
2575 },
2576 {
2577     "Benamning": {
2578         "sv": "Martinique",
2579         "en": "Martinique"
2580     },
2581     "Beskrivning": {},
2582     "Dolt": false,
2583     "Giltighetsperiod": {},
2584     "ID": "101028",
2585     "Kod": "MQ",
2586     "LarosateID": -1
2587 },
2588 {
2589     "Benamning": {
2590         "sv": "Mayotte",
2591         "en": "Mayotte"
2592     },
2593     "Beskrivning": {},
2594     "Dolt": false,
2595     "Giltighetsperiod": {},
2596     "ID": "101029",
2597     "Kod": "YT",
2598     "LarosateID": -1
2599 },
```

```

2600     {
2601         "Benamning": {
2602             "sv": "Mikronesien",
2603             "en": "Micronesia"
2604         },
2605         "Beskrivning": {},
2606         "Dolt": false,
2607         "Giltighetsperiod": {},
2608         "ID": "101030",
2609         "Kod": "FM",
2610         "LarosateID": -1
2611     },
2612     {
2613         "Benamning": {
2614             "sv": "Niue",
2615             "en": "Niue"
2616         },
2617         "Beskrivning": {},
2618         "Dolt": false,
2619         "Giltighetsperiod": {},
2620         "ID": "101031",
2621         "Kod": "NU",
2622         "LarosateID": -1
2623     },
2624     {
2625         "Benamning": {
2626             "sv": "Nordmarianerna",
2627             "en": "Northern Mariana Islands"
2628         },
2629         "Beskrivning": {},
2630         "Dolt": false,
2631         "Giltighetsperiod": {},
2632         "ID": "101032",
2633         "Kod": "MP",
2634         "LarosateID": -1
2635     },
2636     {
2637         "Benamning": {
2638             "sv": "Ok\u00e4nt land",
2639             "en": "Unknown country"
2640         },
2641         "Beskrivning": {},
2642         "Dolt": false,
2643         "Giltighetsperiod": {
2644             "Slutdatum": "2016-07-01"
2645         },
2646         "ID": "101033",
2647         "Kod": "XX",
2648         "LarosateID": -1
2649     },
2650     {

```

```

2651     "Benamning": {
2652         "sv": "Palau",
2653         "en": "Palau"
2654     },
2655     "Beskrivning": {},
2656     "Dolt": false,
2657     "Giltighetsperiod": {},
2658     "ID": "101034",
2659     "Kod": "PW",
2660     "LarosateID": -1
2661 },
2662 {
2663     "Benamning": {
2664         "sv": "Saint Kitts och Nevis",
2665         "en": "Saint Kitts and Nevis"
2666     },
2667     "Beskrivning": {},
2668     "Dolt": false,
2669     "Giltighetsperiod": {},
2670     "ID": "101035",
2671     "Kod": "KN",
2672     "LarosateID": -1
2673 },
2674 {
2675     "Benamning": {
2676         "sv": "Serbien-Montenegro",
2677         "en": "Serbia and Montenegro"
2678     },
2679     "Beskrivning": {},
2680     "Dolt": false,
2681     "Giltighetsperiod": {
2682         "Slutdatum": "2006-05-21",
2683         "Startdatum": "2003-02-04"
2684     },
2685     "ID": "101036",
2686     "Kod": "CS",
2687     "LarosateID": -1
2688 },
2689 {
2690     "Benamning": {
2691         "sv": "Sovjetunionen",
2692         "en": "Soviet Union"
2693     },
2694     "Beskrivning": {},
2695     "Dolt": false,
2696     "Giltighetsperiod": {
2697         "Slutdatum": "1991-12-26",
2698         "Startdatum": "1922-12-30"
2699     },
2700     "ID": "101037",
2701     "Kod": "SU",

```

```

2702     "LarosateID": -1
2703 },
2704 {
2705     "Benamning": {
2706         "sv": "Sydsudan",
2707         "en": "South Sudan"
2708     },
2709     "Beskrivning": {},
2710     "Dolt": false,
2711     "Giltighetsperiod": {
2712         "Startdatum": "2011-07-09"
2713     },
2714     "ID": "101038",
2715     "Kod": "SS",
2716     "LarosateID": -1
2717 }
2718 ]
2719 }

```

20.9 undervisningstid_JSON

893a *<LadokSession data methods 126b>+≡*

```

# added by GQMJr
def undervisningstid_JSON(self):
    """
    Returns a dictionary of teaching times.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/undervisningstid',
        headers=self.headers).json()
    return r

```

Let's add a test. This should return a dictionary.

893b *<test functions 126a>+≡*

```

def test_undervisningstid_JSON():
    r = ladok.undervisningstid_JSON()
    assert type(r) == dict

```

This code is used in chunk 121.

The output looks like this:

```

1  {
2    "Undervisningstid": [
3      {
4        "Benamning": {
5          "sv": "Blandad undervisningstid",
6          "en": "Mixed-time"
7        },
8        "Beskrivning": {},
9        "Dolt": true,

```

```

10     "Giltighetsperiod": {},
11     "ID": "101051",
12     "Kod": "BLA",
13     "LarosateID": -1
14 },
15 {
16     "Benamning": {
17         "sv": "Dagtid",
18         "en": "Day-time"
19     },
20     "Beskrivning": {},
21     "Dolt": false,
22     "Giltighetsperiod": {},
23     "ID": "101052",
24     "Kod": "DAG",
25     "LarosateID": -1
26 },
27 {
28     "Benamning": {
29         "sv": "Eftermiddagstid",
30         "en": "Afternoon-time"
31     },
32     "Beskrivning": {},
33     "Dolt": true,
34     "Giltighetsperiod": {},
35     "ID": "101053",
36     "Kod": "EFT",
37     "LarosateID": -1
38 },
39 {
40     "Benamning": {
41         "sv": "Ingen undervisningstid",
42         "en": "No teaching"
43     },
44     "Beskrivning": {},
45     "Dolt": true,
46     "Giltighetsperiod": {
47         "Slutdatum": "2016-04-30"
48     },
49     "ID": "101054",
50     "Kod": "ING",
51     "LarosateID": -1
52 },
53 {
54     "Benamning": {
55         "sv": "Ingen schemalagd undervisning",
56         "en": "No scheduled teaching"
57     },
58     "Beskrivning": {},
59     "Dolt": false,
60     "Giltighetsperiod": {},

```

```

61     "ID": "164218",
62     "Kod": "ISU",
63     "LarosateID": -1
64 },
65 {
66     "Benamning": {
67         "sv": "Kv\u00e4llstid",
68         "en": "Evening-time"
69     },
70     "Beskrivning": {},
71     "Dolt": false,
72     "Giltighetsperiod": {},
73     "ID": "101055",
74     "Kod": "KV\u00c4",
75     "LarosateID": -1
76 },
77 {
78     "Benamning": {
79         "sv": "Veckoslut",
80         "en": "Weekends"
81     },
82     "Beskrivning": {},
83     "Dolt": false,
84     "Giltighetsperiod": {},
85     "ID": "101056",
86     "Kod": "VSL",
87     "LarosateID": -1
88 }
89 ]
90 }

```

20.10 successivfordjupning_JSON

```

895a <LadokSession data methods 126b>+=
# RETURNERAR JSON of Successive Specializations
def successivfordjupning_JSON(self):
    """
    Returns a dictionary of Successive Specializations.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/successivfordjupning',
        headers=self.headers).json()
    return r

```

Let's add a test. This should return a dictionary.

```

895b <test functions 126a>+=
def test_successivfordjupning_JSON():
    r = ladok.successivfordjupning_JSON()
    assert type(r) == dict

```

This code is used in chunk 121.

The output looks like this:

```

1 {
2   "SuccessivFordjupning": [
3     {
4       "Benamning": {
5         "sv": "Avancerad niv\u00e5, inneh\u00e5ller examensarbete f\u00f6r magisterexamen",
6         "en": "Second cycle, contains degree project for Master of Arts/Master of Science (60 credits)"
7       },
8       "Beskrivning": {},
9       "Dolt": false,
10      "Giltighetsperiod": {},
11      "ID": "1",
12      "Kod": "A1E",
13      "LarosateID": -1,
14      "NivaInomStudieordningID": 2
15    },
16    {
17      "Benamning": {
18        "sv": "Avancerad niv\u00e5, har kurs/er p\u00e5 avancerad niv\u00e5 som f\u00f6rkunskapskrav",
19        "en": "Second cycle, has second-cycle course/s as entry requirements"
20      },
21      "Beskrivning": {},
22      "Dolt": false,
23      "Giltighetsperiod": {},
24      "ID": "2",
25      "Kod": "A1F",
26      "LarosateID": -1,
27      "NivaInomStudieordningID": 2
28    },
29    {
30      "Benamning": {
31        "sv": "Avancerad niv\u00e5, har endast kurs/er p\u00e5 grundniv\u00e5 som f\u00f6rkunskapskrav"
32        "en": "Second cycle, has only first-cycle course/s as entry requirements"
33      },
34      "Beskrivning": {},
35      "Dolt": false,
36      "Giltighetsperiod": {},
37      "ID": "3",
38      "Kod": "A1N",
39      "LarosateID": -1,
40      "NivaInomStudieordningID": 2
41    },
42    {
43      "Benamning": {
44        "sv": "Avancerad niv\u00e5, inneh\u00e5ller examensarbete f\u00f6r masterexamen",
45        "en": "Second cycle, contains degree project for Master of Arts/Master of Science (120 credits)"
46      },
47      "Beskrivning": {},
48      "Dolt": false,

```

```

49     "Giltighetsperiod": {},
50     "ID": "4",
51     "Kod": "A2E",
52     "LarosateID": -1,
53     "NivaInomStudieordningID": 2
54 },
55 {
56     "Benamning": {
57         "sv": "Avancerad niv\u00e5, kursens f\u00f6rdjupning kan inte klassificeras",
58         "en": "Second cycle, in-depth level of the course cannot be classified"
59     },
60     "Beskrivning": {},
61     "Dolt": false,
62     "Giltighetsperiod": {},
63     "ID": "5",
64     "Kod": "AXX",
65     "LarosateID": -1,
66     "NivaInomStudieordningID": 2
67 },
68 {
69     "Benamning": {
70         "sv": "Grundniv\u00e5, inneh\u00e5ller s\u00e4rskilt utformat examensarbete f\u00f6r h\u00f6gskola",
71         "en": "First cycle, contains specially designed degree project for Higher Education Diploma"
72     },
73     "Beskrivning": {},
74     "Dolt": false,
75     "Giltighetsperiod": {},
76     "ID": "6",
77     "Kod": "G1E",
78     "LarosateID": -1,
79     "NivaInomStudieordningID": 1
80 },
81 {
82     "Benamning": {
83         "sv": "Grundniv\u00e5, har mindre \u00e4n 60 hp kurs/er p\u00e5 grundniv\u00e5 som f\u00f6rkunskapskrav",
84         "en": "First cycle, has less than 60 credits in first-cycle course/s as entry requirements"
85     },
86     "Beskrivning": {},
87     "Dolt": false,
88     "Giltighetsperiod": {},
89     "ID": "7",
90     "Kod": "G1F",
91     "LarosateID": -1,
92     "NivaInomStudieordningID": 1
93 },
94 {
95     "Benamning": {
96         "sv": "Grundniv\u00e5, har endast gymnasiala f\u00f6rkunskapskrav",
97         "en": "First cycle, has only upper-secondary level entry requirements"
98     },
99     "Beskrivning": {},

```



```

100     "Dolt": false,
101     "Giltighetsperiod": {},
102     "ID": "8",
103     "Kod": "G1N",
104     "LarosateID": -1,
105     "NivaInomStudieordningID": 1
106 },
107 {
108     "Benamning": {
109         "sv": "Grundniv\u00e5, har minst 60 hp kurs/er p\u00e5 grundniv\u00e5 som f\u00f6rkunskapskrav",
110         "en": "First cycle, has at least 60 credits in first-cycle course/s as entry requirements, cont
111     },
112     "Beskrivning": {},
113     "Dolt": false,
114     "Giltighetsperiod": {},
115     "ID": "9",
116     "Kod": "G2E",
117     "LarosateID": -1,
118     "NivaInomStudieordningID": 1
119 },
120 {
121     "Benamning": {
122         "sv": "Grundniv\u00e5, har minst 60 hp kurs/er p\u00e5 grundniv\u00e5 som f\u00f6rkunskapskrav",
123         "en": "First cycle, has at least 60 credits in first-cycle course/s as entry requirements"
124     },
125     "Beskrivning": {},
126     "Dolt": false,
127     "Giltighetsperiod": {},
128     "ID": "10",
129     "Kod": "G2F",
130     "LarosateID": -1,
131     "NivaInomStudieordningID": 1
132 },
133 {
134     "Benamning": {
135         "sv": "Grundniv\u00e5, kursens f\u00f6rdjupning kan inte klassificeras",
136         "en": "First cycle, in-depth level of the course cannot be classified"
137     },
138     "Beskrivning": {},
139     "Dolt": false,
140     "Giltighetsperiod": {},
141     "ID": "11",
142     "Kod": "GXX",
143     "LarosateID": -1,
144     "NivaInomStudieordningID": 1
145 }
146 ]
147 }

```

20.11 undervisningsform_JSON

899a *<LadokSession data methods 126b>+≡*

```
# added by GQMJr
def undervisningsform_JSON(self):
    """
    Returns forms of education.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/undervisningsform',
        headers=self.headers).json()
    return r
```

Let's add a test. This should return a dictionary.

899b *<test functions 126a>+≡*

```
def test_undervisningsform_JSON():
    r = ladok.undervisningsform_JSON()
    assert type(r) == dict
```

This code is used in chunk 121.

The output looks like this:

```
1 {
2   "Undervisningsform": [
3     {
4       "Benamning": {
5         "sv": "Distans",
6         "en": "Distance learning"
7       },
8       "Beskrivning": {
9         "sv": "Obligatoriska tr\u00e4ffar kan f\u00f6rekomma"
10      },
11      "Dolt": false,
12      "Giltighetsperiod": {},
13      "ID": "2",
14      "Kod": "DST",
15      "LarosateID": -1
16    },
17    {
18      "Benamning": {
19        "sv": "Ingen undervisning",
20        "en": "No teaching"
21      },
22      "Beskrivning": {},
23      "Dolt": true,
24      "Giltighetsperiod": {
25        "Slutdatum": "2016-04-30"
26      },
27      "ID": "4",
28      "Kod": "ING",
29      "LarosateID": -1
```

```

30     },
31     {
32         "Benamning": {
33             "sv": "IT-baserad distansutbildning",
34             "en": "Web-based distance learning"
35         },
36         "Beskrivning": {
37             "sv": "Ingen platsbunden undervisning"
38         },
39         "Dolt": true,
40         "Giltighetsperiod": {
41             "Slutdatum": "2016-04-30"
42         },
43         "ID": "3",
44         "Kod": "ITD",
45         "LarosateID": -1
46     },
47     {
48         "Benamning": {
49             "sv": "Normal",
50             "en": "Normal teaching"
51         },
52         "Beskrivning": {},
53         "Dolt": false,
54         "Giltighetsperiod": {},
55         "ID": "1",
56         "Kod": "NML",
57         "LarosateID": -1
58     },
59     {
60         "Benamning": {
61             "sv": "IT-baserad distans",
62             "en": "- No translation available -"
63         },
64         "Beskrivning": {},
65         "Dolt": true,
66         "Giltighetsperiod": {
67             "Slutdatum": "2018-06-19"
68         },
69         "ID": "133253",
70         "Kod": "ITD",
71         "LarosateID": 29
72     },
73     {
74         "Benamning": {
75             "sv": "Undervisningsomr\u00e5det",
76             "en": "- No translation available -"
77         },
78         "Beskrivning": {},
79         "Dolt": true,
80         "Giltighetsperiod": {

```

```

81         "Slutdatum": "2018-06-19"
82     },
83     "ID": "133252",
84     "Kod": "LU",
85     "LarosateID": 29
86 }
87 ]
88 }

```

20.12 LokalaPerioder_JSON

901a *<LadokSession data methods 126b>+≡*

```

# added by GQMJr
def LokalaPerioder_JSON(self):
    """
    Returns local periods.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url + '/kataloginformation/internal/grunddata/period',
        headers=self.headers).json()
    return r

```

Let's add a test. This should return a dictionary.

901b *<test functions 126a>+≡*

```

def test_LokalaPerioder_JSON():
    r = ladok.LokalaPerioder_JSON()
    assert type(r) == dict

```

This code is used in chunk 121.

The output looks like this:

```

1  {
2      "Period": [
3          {
4              "Benamning": {
5                  "sv": "Andra halv\u00e5r 1954",
6                  "en": "Last six months of 1954"
7              },
8              "Beskrivning": {},
9              "Dolt": false,
10             "FromDatum": "1954-07-01",
11             "Giltighetsperiod": {
12                 "Slutdatum": "1954-12-31",
13                 "Startdatum": "1954-07-01"
14             },
15             "ID": "29186",
16             "Kod": "1954H",
17             "LarosateID": 29,
18             "PeriodtypID": 3,
19             "TomDatum": "1954-12-31"
20         },

```

```

21  {
22    "Benamning": {
23      "sv": "F\u00f6rsta halv\u00e5r 1954",
24      "en": "First six months of 1954"
25    },
26    "Beskrivning": {},
27    "Dolt": false,
28    "FromDatum": "1954-01-01",
29    "Giltighetsperiod": {
30      "Slutdatum": "1954-06-30",
31      "Startdatum": "1954-01-01"
32    },
33    "ID": "29258",
34    "Kod": "1954V",
35    "LarosateID": 29,
36    "PeriodtypID": 3,
37    "TomDatum": "1954-06-30"
38  },
39  {
40    "Benamning": {
41      "sv": "Andra halv\u00e5r 1955",
42      "en": "Last six months of 1955"
43    },
44    "Beskrivning": {},
45    "Dolt": false,
46    "FromDatum": "1955-07-01",
47    "Giltighetsperiod": {
48      "Slutdatum": "1955-12-31",
49      "Startdatum": "1955-07-01"
50    },
51    "ID": "29187",
52    "Kod": "1955H",
53    "LarosateID": 29,
54    "PeriodtypID": 3,
55    "TomDatum": "1955-12-31"
56  },
57  {
58    "Benamning": {
59      "sv": "F\u00f6rsta halv\u00e5r 1955",
60      "en": "First six months of 1955"
61    },
62    "Beskrivning": {},
63    "Dolt": false,
64    "FromDatum": "1955-01-01",
65    "Giltighetsperiod": {
66      "Slutdatum": "1955-06-30",
67      "Startdatum": "1955-01-01"
68    },
69    "ID": "29259",
70    "Kod": "1955V",
71    "LarosateID": 29,

```

```

72     "PeriodtypID": 3,
73     "TomDatum": "1955-06-30"
74 },
75 {
76     "Benamning": {
77         "sv": "Andra halv\u00e5r 1956",
78         "en": "Last six months of 1956"
79     },
80     "Beskrivning": {},
81     "Dolt": false,
82     "FromDatum": "1956-07-01",
83     "Giltighetsperiod": {
84         "Slutdatum": "1956-12-31",
85         "Startdatum": "1956-07-01"
86     },
87     "ID": "29188",
88     "Kod": "1956H",
89     "LarosateID": 29,
90     "PeriodtypID": 3,
91     "TomDatum": "1956-12-31"
92 },
93 {
94     "Benamning": {
95         "sv": "F\u00f6rsta halv\u00e5r 1956",
96         "en": "First six months of 1956"
97     },
98     "Beskrivning": {},
99     "Dolt": false,
100    "FromDatum": "1956-01-01",
101    "Giltighetsperiod": {
102        "Slutdatum": "1956-06-30",
103        "Startdatum": "1956-01-01"
104    },
105    "ID": "29260",
106    "Kod": "1956V",
107    "LarosateID": 29,
108    "PeriodtypID": 3,
109    "TomDatum": "1956-06-30"
110 },
111 {
112    "Benamning": {
113        "sv": "Andra halv\u00e5r 1957",
114        "en": "Last six months of 1957"
115    },
116    "Beskrivning": {},
117    "Dolt": false,
118    "FromDatum": "1957-07-01",
119    "Giltighetsperiod": {
120        "Slutdatum": "1957-12-31",
121        "Startdatum": "1957-07-01"
122    },

```

```

123     "ID": "29189",
124     "Kod": "1957H",
125     "LarosateID": 29,
126     "PeriodtypID": 3,
127     "TomDatum": "1957-12-31"
128 },
129 {
130     "Benamning": {
131         "sv": "F\u00f6rsta halv\u00e5r 1957",
132         "en": "First six months of 1957"
133     },
134     "Beskrivning": {},
135     "Dolt": false,
136     "FromDatum": "1957-01-01",
137     "Giltighetsperiod": {
138         "Slutdatum": "1957-06-30",
139         "Startdatum": "1957-01-01"
140     },
141     "ID": "29261",
142     "Kod": "1957V",
143     "LarosateID": 29,
144     "PeriodtypID": 3,
145     "TomDatum": "1957-06-30"
146 },
147 {
148     "Benamning": {
149         "sv": "Andra halv\u00e5r 1958",
150         "en": "Last six months of 1958"
151     },
152     "Beskrivning": {},
153     "Dolt": false,
154     "FromDatum": "1958-07-01",
155     "Giltighetsperiod": {
156         "Slutdatum": "1958-12-31",
157         "Startdatum": "1958-07-01"
158     },
159     "ID": "29190",
160     "Kod": "1958H",
161     "LarosateID": 29,
162     "PeriodtypID": 3,
163     "TomDatum": "1958-12-31"
164 },
165 {
166     "Benamning": {
167         "sv": "F\u00f6rsta halv\u00e5r 1967",
168         "en": "First six months of 1967"
169     },
170     "Beskrivning": {},
171     "Dolt": false,
172     "FromDatum": "1967-01-01",
173     "Giltighetsperiod": {

```

```

174         "Slutdatum": "1967-06-30",
175         "Startdatum": "1967-01-01"
176     },
177     "ID": "29271",
178     "Kod": "1967V",
179     "LarosateID": 29,
180     "PeriodtypID": 3,
181     "TomDatum": "1967-06-30"
182 },
183 {
184     "Benamning": {
185         "sv": "Andra halv\u00e5r 1968",
186         "en": "Last six months of 1968"
187     },
188     "Beskrivning": {},
189     "Dolt": false,
190     "FromDatum": "1968-07-01",
191     "Giltighetsperiod": {
192         "Slutdatum": "1968-12-31",
193         "Startdatum": "1968-07-01"
194     },
195     "ID": "29200",
196     "Kod": "1968H",
197     "LarosateID": 29,
198     "PeriodtypID": 3,
199     "TomDatum": "1968-12-31"
200 },
201 {
202     "Benamning": {
203         "sv": "F\u00f6rsta halv\u00e5r 1968",
204         "en": "First six months of 1968"
205     },
206     "Beskrivning": {},
207     "Dolt": false,
208     "FromDatum": "1968-01-01",
209     "Giltighetsperiod": {
210         "Slutdatum": "1968-06-30",
211         "Startdatum": "1968-01-01"
212     },
213     "ID": "29272",
214     "Kod": "1968V",
215     "LarosateID": 29,
216     "PeriodtypID": 3,
217     "TomDatum": "1968-06-30"
218 },
219 {
220     "Benamning": {
221         "sv": "Andra halv\u00e5r 1969",
222         "en": "Last six months of 1969"
223     },
224     "Beskrivning": {},

```



```

225     "Dolt": false,
226     "FromDatum": "1969-07-01",
227     "Giltighetsperiod": {
228         "Slutdatum": "1969-12-31",
229         "Startdatum": "1969-07-01"
230     },
231     "ID": "29201",
232     "Kod": "1969H",
233     "LarosateID": 29,
234     "PeriodtypID": 3,
235     "TomDatum": "1969-12-31"
236 },
237 {
238     "Benamning": {
239         "sv": "F\u00f6rsta halv\u00e5r 1969",
240         "en": "First six months of 1969"
241     },
242     "Beskrivning": {},
243     "Dolt": false,
244     "FromDatum": "1969-01-01",
245     "Giltighetsperiod": {
246         "Slutdatum": "1969-06-30",
247         "Startdatum": "1969-01-01"
248     },
249     "ID": "29273",
250     "Kod": "1969V",
251     "LarosateID": 29,
252     "PeriodtypID": 3,
253     "TomDatum": "1969-06-30"
254 },
255 {
256     "Benamning": {
257         "sv": "Kalender\u00e5r 1970",
258         "en": "Calendar year 1970"
259     },
260     "Beskrivning": {},
261     "Dolt": false,
262     "FromDatum": "1970-01-01",
263     "Giltighetsperiod": {
264         "Slutdatum": "1970-12-31",
265         "Startdatum": "1970-01-01"
266     },
267     "ID": "29101",
268     "Kod": "1970",
269     "LarosateID": 29,
270     "PeriodtypID": 1,
271     "TomDatum": "1970-12-31"
272 },
273 {
274     "Benamning": {
275         "sv": "Andra halv\u00e5r 1970",

```

```

276         "en": "Last six months of 1970"
277     },
278     "Beskrivning": {},
279     "Dolt": false,
280     "FromDatum": "1970-07-01",
281     "Giltighetsperiod": {
282         "Slutdatum": "1970-12-31",
283         "Startdatum": "1970-07-01"
284     },
285     "ID": "29202",
286     "Kod": "1970H",
287     "LarosateID": 29,
288     "PeriodtypID": 3,
289     "TomDatum": "1970-12-31"
290 },
291 {
292     "Benamning": {
293         "sv": "F\u00f6rsta halv\u00e5r 1970",
294         "en": "First six months of 1970"
295     },
296     "Beskrivning": {},
297     "Dolt": false,
298     "FromDatum": "1970-01-01",
299     "Giltighetsperiod": {
300         "Slutdatum": "1970-06-30",
301         "Startdatum": "1970-01-01"
302     },
303     "ID": "29274",
304     "Kod": "1970V",
305     "LarosateID": 29,
306     "PeriodtypID": 3,
307     "TomDatum": "1970-06-30"
308 },
309 {
310     "Benamning": {
311         "sv": "Kalender\u00e5r 1971",
312         "en": "Calendar year 1971"
313     },
314     "Beskrivning": {},
315     "Dolt": false,
316     "FromDatum": "1971-01-01",
317     "Giltighetsperiod": {
318         "Slutdatum": "1971-12-31",
319         "Startdatum": "1971-01-01"
320     },
321     "ID": "29102",
322     "Kod": "1971",
323     "LarosateID": 29,
324     "PeriodtypID": 1,
325     "TomDatum": "1971-12-31"
326 },

```

```

327     {
328         "Benamning": {
329             "sv": "Andra halv\u00e5r 1971",
330             "en": "Last six months of 1971"
331         },
332         "Beskrivning": {},
333         "Dolt": false,
334         "FromDatum": "1971-07-01",
335         "Giltighetsperiod": {
336             "Slutdatum": "1971-12-31",
337             "Startdatum": "1971-07-01"
338         },
339         "ID": "29203",
340         "Kod": "1971H",
341         "LarosateID": 29,
342         "PeriodtypID": 3,
343         "TomDatum": "1971-12-31"
344     },
345     {
346         "Benamning": {
347             "sv": "F\u00f6rsta halv\u00e5r 1974",
348             "en": "First six months of 1974"
349         },
350         "Beskrivning": {},
351         "Dolt": false,
352         "FromDatum": "1974-01-01",
353         "Giltighetsperiod": {
354             "Slutdatum": "1974-06-30",
355             "Startdatum": "1974-01-01"
356         },
357         "ID": "29278",
358         "Kod": "1974V",
359         "LarosateID": 29,
360         "PeriodtypID": 3,
361         "TomDatum": "1974-06-30"
362     },
363     {
364         "Benamning": {
365             "sv": "Kalender\u00e5r 1975",
366             "en": "Calendar year 1975"
367         },
368         "Beskrivning": {},
369         "Dolt": false,
370         "FromDatum": "1975-01-01",
371         "Giltighetsperiod": {
372             "Slutdatum": "1975-12-31",
373             "Startdatum": "1975-01-01"
374         },
375         "ID": "29106",
376         "Kod": "1975",
377         "LarosateID": 29,

```

```

378     "PeriodtypID": 1,
379     "TomDatum": "1975-12-31"
380 },
381 {
382     "Benamning": {
383         "sv": "Andra halv\u00e5r 1975",
384         "en": "Last six months of 1975"
385     },
386     "Beskrivning": {},
387     "Dolt": false,
388     "FromDatum": "1975-07-01",
389     "Giltighetsperiod": {
390         "Slutdatum": "1975-12-31",
391         "Startdatum": "1975-07-01"
392     },
393     "ID": "29207",
394     "Kod": "1975H",
395     "LarosateID": 29,
396     "PeriodtypID": 3,
397     "TomDatum": "1975-12-31"
398 },
399 {
400     "Benamning": {
401         "sv": "F\u00f6rsta halv\u00e5r 1975",
402         "en": "First six months of 1975"
403     },
404     "Beskrivning": {},
405     "Dolt": false,
406     "FromDatum": "1975-01-01",
407     "Giltighetsperiod": {
408         "Slutdatum": "1975-06-30",
409         "Startdatum": "1975-01-01"
410     },
411     "ID": "29279",
412     "Kod": "1975V",
413     "LarosateID": 29,
414     "PeriodtypID": 3,
415     "TomDatum": "1975-06-30"
416 },
417 {
418     "Benamning": {
419         "sv": "Kalender\u00e5r 1976",
420         "en": "Calendar year 1976"
421     },
422     "Beskrivning": {},
423     "Dolt": false,
424     "FromDatum": "1976-01-01",
425     "Giltighetsperiod": {
426         "Slutdatum": "1976-12-31",
427         "Startdatum": "1976-01-01"
428     },

```

```
429     "ID": "29107",
430     "Kod": "1976",
431     "LarosateID": 29,
432     "PeriodtypID": 1,
433     "TomDatum": "1976-12-31"
434 },
435 {
436     "Benamning": {
437         "sv": "Andra halv\u00e5r 1976",
438         "en": "Last six months of 1976"
439     },
440     "Beskrivning": {},
441     "Dolt": false,
442     "FromDatum": "1976-07-01",
443     "Giltighetsperiod": {
444         "Slutdatum": "1976-12-31",
445         "Startdatum": "1976-07-01"
446     },
447     "ID": "29208",
448     "Kod": "1976H",
449     "LarosateID": 29,
450     "PeriodtypID": 3,
451     "TomDatum": "1976-12-31"
452 },
453 {
454     "Benamning": {
455         "sv": "F\u00f6rsta halv\u00e5r 1976",
456         "en": "First six months of 1976"
457     },
458     "Beskrivning": {},
459     "Dolt": false,
460     "FromDatum": "1976-01-01",
461     "Giltighetsperiod": {
462         "Slutdatum": "1976-06-30",
463         "Startdatum": "1976-01-01"
464     },
465     "ID": "29280",
466     "Kod": "1976V",
467     "LarosateID": 29,
468     "PeriodtypID": 3,
469     "TomDatum": "1976-06-30"
470 },
471 {
472     "Benamning": {
473         "sv": "Kalender\u00e5r 1977",
474         "en": "Calendar year 1977"
475     },
476     "Beskrivning": {},
477     "Dolt": false,
478     "FromDatum": "1977-01-01",
479     "Giltighetsperiod": {
```

```

480         "Slutdatum": "1977-12-31",
481         "Startdatum": "1977-01-01"
482     },
483     "ID": "29108",
484     "Kod": "1977",
485     "LarosateID": 29,
486     "PeriodtypID": 1,
487     "TomDatum": "1977-12-31"
488 },
489 {
490     "Benamning": {
491         "sv": "Andra halv\u00e5r 1977",
492         "en": "Last six months of 1977"
493     },
494     "Beskrivning": {},
495     "Dolt": false,
496     "FromDatum": "1977-07-01",
497     "Giltighetsperiod": {
498         "Slutdatum": "1977-12-31",
499         "Startdatum": "1977-07-01"
500     },
501     "ID": "29209",
502     "Kod": "1977H",
503     "LarosateID": 29,
504     "PeriodtypID": 3,
505     "TomDatum": "1977-12-31"
506 },
507 {
508     "Benamning": {
509         "sv": "F\u00f6rsta halv\u00e5r 1980",
510         "en": "First six months of 1980"
511     },
512     "Beskrivning": {},
513     "Dolt": false,
514     "FromDatum": "1980-01-01",
515     "Giltighetsperiod": {
516         "Slutdatum": "1980-06-30",
517         "Startdatum": "1980-01-01"
518     },
519     "ID": "29284",
520     "Kod": "1980V",
521     "LarosateID": 29,
522     "PeriodtypID": 3,
523     "TomDatum": "1980-06-30"
524 },
525 {
526     "Benamning": {
527         "sv": "Kalender\u00e5r 1981",
528         "en": "Calendar year 1981"
529     },
530     "Beskrivning": {},

```

```

531     "Dolt": false,
532     "FromDatum": "1981-01-01",
533     "Giltighetsperiod": {
534         "Slutdatum": "1981-12-31",
535         "Startdatum": "1981-01-01"
536     },
537     "ID": "29112",
538     "Kod": "1981",
539     "LarosateID": 29,
540     "PeriodtypID": 1,
541     "TomDatum": "1981-12-31"
542 },
543 {
544     "Benamning": {
545         "sv": "Andra halv\u00e5r 1981",
546         "en": "Last six months of 1981"
547     },
548     "Beskrivning": {},
549     "Dolt": false,
550     "FromDatum": "1981-07-01",
551     "Giltighetsperiod": {
552         "Slutdatum": "1981-12-31",
553         "Startdatum": "1981-07-01"
554     },
555     "ID": "29213",
556     "Kod": "1981H",
557     "LarosateID": 29,
558     "PeriodtypID": 3,
559     "TomDatum": "1981-12-31"
560 },
561 {
562     "Benamning": {
563         "sv": "F\u00f6rsta halv\u00e5r 1981",
564         "en": "First six months of 1981"
565     },
566     "Beskrivning": {},
567     "Dolt": false,
568     "FromDatum": "1981-01-01",
569     "Giltighetsperiod": {
570         "Slutdatum": "1981-06-30",
571         "Startdatum": "1981-01-01"
572     },
573     "ID": "29285",
574     "Kod": "1981V",
575     "LarosateID": 29,
576     "PeriodtypID": 3,
577     "TomDatum": "1981-06-30"
578 },
579 {
580     "Benamning": {
581         "sv": "Kalender\u00e5r 1982",

```

```
582     "en": "Calendar year 1982"
583 },
584 "Beskrivning": {},
585 "Dolt": false,
586 "FromDatum": "1982-01-01",
587 "Giltighetsperiod": {
588     "Slutdatum": "1982-12-31",
589     "Startdatum": "1982-01-01"
590 },
591 "ID": "29113",
592 "Kod": "1982",
593 "LarosateID": 29,
594 "PeriodtypID": 1,
595 "TomDatum": "1982-12-31"
596 },
597 {
598     "Benamning": {
599         "sv": "Andra halv\u00e5r 1982",
600         "en": "Last six months of 1982"
601     },
602     "Beskrivning": {},
603     "Dolt": false,
604     "FromDatum": "1982-07-01",
605     "Giltighetsperiod": {
606         "Slutdatum": "1982-12-31",
607         "Startdatum": "1982-07-01"
608     },
609     "ID": "29214",
610     "Kod": "1982H",
611     "LarosateID": 29,
612     "PeriodtypID": 3,
613     "TomDatum": "1982-12-31"
614 },
615 {
616     "Benamning": {
617         "sv": "F\u00f6rsta halv\u00e5r 1982",
618         "en": "First six months of 1982"
619     },
620     "Beskrivning": {},
621     "Dolt": false,
622     "FromDatum": "1982-01-01",
623     "Giltighetsperiod": {
624         "Slutdatum": "1982-06-30",
625         "Startdatum": "1982-01-01"
626     },
627     "ID": "29286",
628     "Kod": "1982V",
629     "LarosateID": 29,
630     "PeriodtypID": 3,
631     "TomDatum": "1982-06-30"
632 },
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```

633     {
634         "Benamning": {
635             "sv": "Kalender\u00e5r 1983",
636             "en": "Calendar year 1983"
637         },
638         "Beskrivning": {},
639         "Dolt": false,
640         "FromDatum": "1983-01-01",
641         "Giltighetsperiod": {
642             "Slutdatum": "1983-12-31",
643             "Startdatum": "1983-01-01"
644         },
645         "ID": "29114",
646         "Kod": "1983",
647         "LarosateID": 29,
648         "PeriodtypID": 1,
649         "TomDatum": "1983-12-31"
650     },
651     {
652         "Benamning": {
653             "sv": "Andra halv\u00e5r 1983",
654             "en": "Last six months of 1983"
655         },
656         "Beskrivning": {},
657         "Dolt": false,
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1638     "PeriodtypID": 3,
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1842         "en": "Autumn semester 1937"
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1849         "Startdatum": "1937-07-01"
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1853     "LarosateID": 29,
1854     "PeriodtypID": 2,
1855     "TomDatum": "1937-12-31"
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1860     "en": "Autumn semester 1959"
1861   },
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1878     "en": "Autumn semester 1960"
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1888   "Kod": "HT1960",
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1896     "en": "Autumn semester 1961"
1897   },
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1921         "Startdatum": "1962-08-15"
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1927     "TomDatum": "1963-01-19"
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1932         "en": "Autumn semester 1963"
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1934     "Beskrivning": {},
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```

```
6498     "PeriodtypID": 2,
6499     "TomDatum": "2018-06-04"
6500 },
6501 {
6502     "Benamning": {
6503         "sv": "V\u00e5rtermin 2019",
6504         "en": "Spring semester 2019"
6505     },
6506     "Beskrivning": {},
6507     "Dolt": false,
6508     "FromDatum": "2019-01-15",
6509     "Giltighetsperiod": {
6510         "Slutdatum": "2019-06-04",
6511         "Startdatum": "2019-01-15"
6512     },
6513     "ID": "133120",
6514     "Kod": "VT2019",
6515     "LarosateID": 29,
6516     "PeriodtypID": 2,
6517     "TomDatum": "2019-06-04"
6518 },
6519 {
6520     "Benamning": {
6521         "sv": "V\u00e5rtermin 2029",
6522         "en": "Spring semester 2029"
6523     },
6524     "Beskrivning": {},
6525     "Dolt": false,
6526     "FromDatum": "2029-01-15",
6527     "Giltighetsperiod": {
6528         "Slutdatum": "2029-06-03",
6529         "Startdatum": "2029-01-15"
6530     },
6531     "ID": "159035",
6532     "Kod": "VT2029",
6533     "LarosateID": 29,
6534     "PeriodtypID": 2,
6535     "TomDatum": "2029-06-03"
6536 },
6537 {
6538     "Benamning": {
6539         "sv": "V\u00e5rtermin 2030",
6540         "en": "Spring semester 2030"
6541     },
6542     "Beskrivning": {},
6543     "Dolt": false,
6544     "FromDatum": "2030-01-21",
6545     "Giltighetsperiod": {
6546         "Slutdatum": "2030-06-09",
6547         "Startdatum": "2030-01-21"
6548     },
6549 }
```

```

6549     "ID": "161510",
6550     "Kod": "VT2030",
6551     "LarosateID": 29,
6552     "PeriodtypID": 2,
6553     "TomDatum": "2030-06-09"
6554 },
6555 {
6556     "Benamning": {
6557         "sv": "V\u00e5rtermin 2031",
6558         "en": "Spring semester 2031"
6559     },
6560     "Beskrivning": {},
6561     "Dolt": false,
6562     "FromDatum": "2031-01-20",
6563     "Giltighetsperiod": {
6564         "Slutdatum": "2031-06-08",
6565         "Startdatum": "2031-01-20"
6566     },
6567     "ID": "161512",
6568     "Kod": "VT2031",
6569     "LarosateID": 29,
6570     "PeriodtypID": 2,
6571     "TomDatum": "2031-06-08"
6572 }
6573 ]
6574 }

```

20.13 nivainomstudieordning_JSON

```

1030a <LadokSession data methods 126b>+=
# added by GQMJr
def nivainomstudieordning_JSON(self):
    """
    Returns education levels.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/nivainomstudieordning',
        headers=self.headers).json()
    return r

```

Let's add a test. This should return a dictionary.

```

1030b <test functions 126a>+=
def test_nivainomstudieordning_JSON():
    r = ladok.nivainomstudieordning_JSON()
    assert type(r) == dict

```

This code is used in chunk 121.

The output looks like this:

```

1 {

```

```
2  "NivaInomStudieordning": [  
3    {  
4      "Benamning": {  
5        "sv": "Grundniv\u00e5",  
6        "en": "First cycle"  
7      },  
8      "Beskrivning": {},  
9      "Dolt": false,  
10     "Giltighetsperiod": {  
11       "Startdatum": "2007-07-01"  
12     },  
13     "ID": "1",  
14     "Kod": "1",  
15     "LarosateID": -1  
16   },  
17   {  
18     "Benamning": {  
19       "sv": "Avancerad niv\u00e5",  
20       "en": "Second cycle"  
21     },  
22     "Beskrivning": {},  
23     "Dolt": false,  
24     "Giltighetsperiod": {  
25       "Startdatum": "2007-07-01"  
26     },  
27     "ID": "2",  
28     "Kod": "2",  
29     "LarosateID": -1  
30   },  
31   {  
32     "Benamning": {  
33       "sv": "Forskarniv\u00e5",  
34       "en": "Third cycle"  
35     },  
36     "Beskrivning": {},  
37     "Dolt": false,  
38     "Giltighetsperiod": {  
39       "Startdatum": "2007-07-01"  
40     },  
41     "ID": "3",  
42     "Kod": "3",  
43     "LarosateID": -1  
44   },  
45   {  
46     "Benamning": {  
47       "sv": "Forskarutbildning",  
48       "en": "Postgraduate level"  
49     },  
50     "Beskrivning": {},  
51     "Dolt": false,  
52     "Giltighetsperiod": {
```

```

53         "Slutdatum": "2007-06-30",
54         "Startdatum": "1977-07-01"
55     },
56     "ID": "5",
57     "Kod": "F",
58     "LarosateID": -1
59 },
60 {
61     "Benamning": {
62         "sv": "Grundutbildning",
63         "en": "Undergraduate level"
64     },
65     "Beskrivning": {},
66     "Dolt": false,
67     "Giltighetsperiod": {
68         "Slutdatum": "2007-06-30",
69         "Startdatum": "1977-07-01"
70     },
71     "ID": "4",
72     "Kod": "G",
73     "LarosateID": -1
74 }
75 ]
76 }

```

20.14 amnesgrupp_JSON

1032a \langle LadokSession data methods 126b $\rangle + \equiv$

```

# added by GQMJr
def amnesgrupp_JSON(self):
    """
    Returns subject area groups.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url + '/kataloginformation/internal/grunddata/amnesgrupp',
        headers=self.headers).json()
    return r

```

Let's add a test. This should return a dictionary.

1032b \langle test functions 126a $\rangle + \equiv$

```

def test_amnesgrupp_JSON():
    r = ladok.amnesgrupp_JSON()
    assert type(r) == dict

```

This code is used in chunk 121.

The output looks like this:

```

1  {
2      "Amnesgrupp": [
3          {
4              "Benamning": {

```

```

5      "sv": "Arbetsvetenskap och ergonomi",
6      "en": "Work Science and Ergonomics"
7  },
8  "Beskrivning": {},
9  "Dolt": false,
10 "Giltighetsperiod": {},
11 "ID": "1",
12 "Kod": "AE1",
13 "LarosateID": -1
14 },
15 {
16   "Benamning": {
17     "sv": "Administration och f\u00f6rvaltning",
18     "en": "Administration and Management"
19   },
20   "Beskrivning": {},
21   "Dolt": false,
22   "Giltighetsperiod": {},
23   "ID": "2",
24   "Kod": "AF1",
25   "LarosateID": -1
26 },
27 {
28   "Benamning": {
29     "sv": "Antikens kultur",
30     "en": "Ancient History"
31   },
32   "Beskrivning": {},
33   "Dolt": false,
34   "Giltighetsperiod": {},
35   "ID": "3",
36   "Kod": "AK1",
37   "LarosateID": -1
38 },
39 {
40   "Benamning": {
41     "sv": "Allm\u00e4n spr\u00e5kvetenskap/lingvistik",
42     "en": "General Linguistics"
43   },
44   "Beskrivning": {},
45   "Dolt": false,
46   "Giltighetsperiod": {},
47   "ID": "4",
48   "Kod": "AL1",
49   "LarosateID": -1
50 },
51 {
52   "Benamning": {
53     "sv": "Arabiska",
54     "en": "Arabic"
55   },

```



```
56     "Beskrivning": {},
57     "Dolt": false,
58     "Giltighetsperiod": {},
59     "ID": "5",
60     "Kod": "AR1",
61     "LarosateID": -1
62 },
63 {
64     "Benamning": {
65         "sv": "Arkeologi",
66         "en": "Archaeology"
67     },
68     "Beskrivning": {},
69     "Dolt": false,
70     "Giltighetsperiod": {},
71     "ID": "6",
72     "Kod": "AR2",
73     "LarosateID": -1
74 },
75 {
76     "Benamning": {
77         "sv": "Arkitektur",
78         "en": "Architecture"
79     },
80     "Beskrivning": {},
81     "Dolt": false,
82     "Giltighetsperiod": {},
83     "ID": "7",
84     "Kod": "AR3",
85     "LarosateID": -1
86 },
87 {
88     "Benamning": {
89         "sv": "Arameiska/syriska",
90         "en": "Aramaic/Syriac"
91     },
92     "Beskrivning": {},
93     "Dolt": false,
94     "Giltighetsperiod": {},
95     "ID": "8",
96     "Kod": "AS1",
97     "LarosateID": -1
98 },
99 {
100     "Benamning": {
101         "sv": "Automatiseringsteknik",
102         "en": "Automation Technology"
103     },
104     "Beskrivning": {},
105     "Dolt": false,
106     "Giltighetsperiod": {},
```

```
107     "ID": "9",
108     "Kod": "AT1",
109     "LarosateID": -1
110 },
111 {
112     "Benamning": {
113         "sv": "Arkivvetenskap",
114         "en": "Archival Science"
115     },
116     "Beskrivning": {},
117     "Dolt": false,
118     "Giltighetsperiod": {},
119     "ID": "10",
120     "Kod": "AV1",
121     "LarosateID": -1
122 },
123 {
124     "Benamning": {
125         "sv": "\u00d6vrigt inom beteendevetenskap",
126         "en": "Other Subjects within Behavioural Science"
127     },
128     "Beskrivning": {},
129     "Dolt": false,
130     "Giltighetsperiod": {},
131     "ID": "11",
132     "Kod": "BE9",
133     "LarosateID": -1
134 },
135 {
136     "Benamning": {
137         "sv": "Biologi",
138         "en": "Biology"
139     },
140     "Beskrivning": {},
141     "Dolt": false,
142     "Giltighetsperiod": {},
143     "ID": "12",
144     "Kod": "BI1",
145     "LarosateID": -1
146 },
147 {
148     "Benamning": {
149         "sv": "Bosniska/kroatiska/serbiska",
150         "en": "Bosnian/Croatian/Serbian"
151     },
152     "Beskrivning": {},
153     "Dolt": false,
154     "Giltighetsperiod": {},
155     "ID": "13",
156     "Kod": "BK1",
157     "LarosateID": -1
```

```

158     },
159     {
160         "Benamning": {
161             "sv": "Biomedicinsk laboratorietenskap",
162             "en": "Biomedical Laboratory Science"
163         },
164         "Beskrivning": {},
165         "Dolt": false,
166         "Giltighetsperiod": {},
167         "ID": "14",
168         "Kod": "BL1",
169         "LarosateID": -1
170     },
171     {
172         "Benamning": {
173             "sv": "Berg- och mineralteknik",
174             "en": "Mining and Mineral Technology"
175         },
176         "Beskrivning": {},
177         "Dolt": false,
178         "Giltighetsperiod": {},
179         "ID": "15",
180         "Kod": "BM1",
181         "LarosateID": -1
182     },
183     {
184         "Benamning": {
185             "sv": "Bioteknik",
186             "en": "Biotechnology"
187         },
188         "Beskrivning": {},
189         "Dolt": false,
190         "Giltighetsperiod": {},
191         "ID": "16",
192         "Kod": "BT1",
193         "LarosateID": -1
194     },
195     {
196         "Benamning": {
197             "sv": "Bulgariska",
198             "en": "Bulgarian"
199         },
200         "Beskrivning": {},
201         "Dolt": false,
202         "Giltighetsperiod": {},
203         "ID": "17",
204         "Kod": "BU1",
205         "LarosateID": -1
206     },
207     {
208         "Benamning": {

```

```
209     "sv": "Barn- och ungdomsstudier",
210     "en": "Child and Youth Education and Care"
211 },
212 "Beskrivning": {},
213 "Dolt": false,
214 "Giltighetsperiod": {},
215 "ID": "18",
216 "Kod": "BU2",
217 "LarosateID": -1
218 },
219 {
220   "Benamning": {
221     "sv": "Ekonomisk historia",
222     "en": "Economic History"
223   },
224   "Beskrivning": {},
225   "Dolt": false,
226   "Giltighetsperiod": {},
227   "ID": "28",
228   "Kod": "EH1",
229   "LarosateID": -1
230 },
231 {
232   "Benamning": {
233     "sv": "\u00d6vrigt inom ekonomi och administration",
234     "en": "Other Subjects within Economy and Administration"
235   },
236   "Beskrivning": {},
237   "Dolt": false,
238   "Giltighetsperiod": {},
239   "ID": "29",
240   "Kod": "EK9",
241   "LarosateID": -1
242 },
243 {
244   "Benamning": {
245     "sv": "Elektronik",
246     "en": "Electronics"
247   },
248   "Beskrivning": {},
249   "Dolt": false,
250   "Giltighetsperiod": {},
251   "ID": "30",
252   "Kod": "EL1",
253   "LarosateID": -1
254 },
255 {
256   "Benamning": {
257     "sv": "Engelska",
258     "en": "English"
259   },
```

```
260     "Beskrivning": {},
261     "Dolt": false,
262     "Giltighetsperiod": {},
263     "ID": "31",
264     "Kod": "EN1",
265     "LarosateID": -1
266 },
267 {
268     "Benamning": {
269         "sv": "Energiteknik",
270         "en": "Energy Technology"
271     },
272     "Beskrivning": {},
273     "Dolt": false,
274     "Giltighetsperiod": {},
275     "ID": "32",
276     "Kod": "EN2",
277     "LarosateID": -1
278 },
279 {
280     "Benamning": {
281         "sv": "Estniska",
282         "en": "Estonian"
283     },
284     "Beskrivning": {},
285     "Dolt": false,
286     "Giltighetsperiod": {},
287     "ID": "33",
288     "Kod": "ES1",
289     "LarosateID": -1
290 },
291 {
292     "Benamning": {
293         "sv": "Estetik",
294         "en": "Aesthetics"
295     },
296     "Beskrivning": {},
297     "Dolt": false,
298     "Giltighetsperiod": {},
299     "ID": "34",
300     "Kod": "ES2",
301     "LarosateID": -1
302 },
303 {
304     "Benamning": {
305         "sv": "Etnologi",
306         "en": "Ethnology"
307     },
308     "Beskrivning": {},
309     "Dolt": false,
310     "Giltighetsperiod": {},
```

```

311     "ID": "35",
312     "Kod": "ET1",
313     "LarosateID": -1
314 },
315 {
316     "Benamning": {
317         "sv": "Elektroteknik",
318         "en": "Electrical Engineering"
319     },
320     "Beskrivning": {},
321     "Dolt": false,
322     "Giltighetsperiod": {},
323     "ID": "36",
324     "Kod": "ET2",
325     "LarosateID": -1
326 },
327 {
328     "Benamning": {
329         "sv": "Farmaci",
330         "en": "Pharmacy"
331     },
332     "Beskrivning": {},
333     "Dolt": false,
334     "Giltighetsperiod": {},
335     "ID": "37",
336     "Kod": "FC1",
337     "LarosateID": -1
338 },
339 {
340     "Benamning": {
341         "sv": "F\u00f6retagsekonomi",
342         "en": "Business Administration"
343     },
344     "Beskrivning": {},
345     "Dolt": false,
346     "Giltighetsperiod": {},
347     "ID": "38",
348     "Kod": "FE1",
349     "LarosateID": -1
350 },
351 {
352     "Benamning": {
353         "sv": "F\u00f6rfattande",
354         "en": "Creative Writing"
355     },
356     "Beskrivning": {},
357     "Dolt": false,
358     "Giltighetsperiod": {},
359     "ID": "39",
360     "Kod": "FF1",
361     "LarosateID": -1

```

```

362     },
363     {
364         "Benamning": {
365             "sv": "Folkh\u00e4ls\u00f6vetskap",
366             "en": "Public Health"
367         },
368         "Beskrivning": {},
369         "Dolt": false,
370         "Giltighetsperiod": {},
371         "ID": "40",
372         "Kod": "FH1",
373         "LarosateID": -1
374     },
375     {
376         "Benamning": {
377             "sv": "Finska",
378             "en": "Finnish"
379         },
380         "Beskrivning": {},
381         "Dolt": false,
382         "Giltighetsperiod": {},
383         "ID": "41",
384         "Kod": "FI1",
385         "LarosateID": -1
386     },
387     {
388         "Benamning": {
389             "sv": "Filosofi",
390             "en": "Philosophy"
391         },
392         "Beskrivning": {},
393         "Dolt": false,
394         "Giltighetsperiod": {},
395         "ID": "42",
396         "Kod": "FI2",
397         "LarosateID": -1
398     },
399     {
400         "Benamning": {
401             "sv": "Farmakologi",
402             "en": "Pharmacology"
403         },
404         "Beskrivning": {},
405         "Dolt": false,
406         "Giltighetsperiod": {},
407         "ID": "43",
408         "Kod": "FK1",
409         "LarosateID": -1
410     },
411     {
412         "Benamning": {

```

```
413     "sv": "Fri konst",
414     "en": "Fine Art"
415 },
416 "Beskrivning": {},
417 "Dolt": false,
418 "Giltighetsperiod": {},
419 "ID": "44",
420 "Kod": "FK2",
421 "LarosateID": -1
422 },
423 {
424   "Benamning": {
425     "sv": "Flerspr\u00e5kigt inriktade \u00e4mnen",
426     "en": "Subjects with Multilingual Focus"
427   },
428   "Beskrivning": {},
429   "Dolt": false,
430   "Giltighetsperiod": {},
431   "ID": "45",
432   "Kod": "FL1",
433   "LarosateID": -1
434 },
435 {
436   "Benamning": {
437     "sv": "Film",
438     "en": "Film Production"
439   },
440   "Beskrivning": {},
441   "Dolt": false,
442   "Giltighetsperiod": {},
443   "ID": "46",
444   "Kod": "FM1",
445   "LarosateID": -1
446 },
447 {
448   "Benamning": {
449     "sv": "Fysisk planering",
450     "en": "Spatial Planning"
451   },
452   "Beskrivning": {},
453   "Dolt": false,
454   "Giltighetsperiod": {},
455   "ID": "47",
456   "Kod": "FP1",
457   "LarosateID": -1
458 },
459 {
460   "Benamning": {
461     "sv": "Franska",
462     "en": "French"
463   },
```



```

464     "Beskrivning": {},
465     "Dolt": false,
466     "Giltighetsperiod": {},
467     "ID": "48",
468     "Kod": "FR1",
469     "LarosateID": -1
470 },
471 {
472     "Benamning": {
473         "sv": "Farkostteknik",
474         "en": "Vehicle Engineering"
475     },
476     "Beskrivning": {},
477     "Dolt": false,
478     "Giltighetsperiod": {},
479     "ID": "49",
480     "Kod": "FT1",
481     "LarosateID": -1
482 },
483 {
484     "Benamning": {
485         "sv": "Freds- och utvecklingsstudier",
486         "en": "Peace and Development Research"
487     },
488     "Beskrivning": {},
489     "Dolt": false,
490     "Giltighetsperiod": {},
491     "ID": "50",
492     "Kod": "FU1",
493     "LarosateID": -1
494 },
495 {
496     "Benamning": {
497         "sv": "Filmvetenskap",
498         "en": "Film Studies"
499     },
500     "Beskrivning": {},
501     "Dolt": false,
502     "Giltighetsperiod": {},
503     "ID": "51",
504     "Kod": "FV1",
505     "LarosateID": -1
506 },
507 {
508     "Benamning": {
509         "sv": "Fiske och vattenbruk",
510         "en": "Fishery and Aquaculture"
511     },
512     "Beskrivning": {},
513     "Dolt": false,
514     "Giltighetsperiod": {},

```

```

515     "ID": "52",
516     "Kod": "FV2",
517     "LarosateID": -1
518 },
519 {
520     "Benamning": {
521         "sv": "Friskv\u00e5rd",
522         "en": "Physical Welfare"
523     },
524     "Beskrivning": {},
525     "Dolt": false,
526     "Giltighetsperiod": {},
527     "ID": "53",
528     "Kod": "FV3",
529     "LarosateID": -1
530 },
531 {
532     "Benamning": {
533         "sv": "Fysik",
534         "en": "Physics"
535     },
536     "Beskrivning": {},
537     "Dolt": false,
538     "Giltighetsperiod": {},
539     "ID": "54",
540     "Kod": "FY1",
541     "LarosateID": -1
542 },
543 {
544     "Benamning": {
545         "sv": "Geografisk informationsteknik och lantm\u00e4teri",
546         "en": "Geographic Information Technology and Surveying"
547     },
548     "Beskrivning": {},
549     "Dolt": false,
550     "Giltighetsperiod": {},
551     "ID": "55",
552     "Kod": "GI1",
553     "LarosateID": -1
554 },
555 {
556     "Benamning": {
557         "sv": "Geovetenskap och naturgeografi",
558         "en": "Earth Science and Physical Geography"
559     },
560     "Beskrivning": {},
561     "Dolt": false,
562     "Giltighetsperiod": {},
563     "ID": "56",
564     "Kod": "GN1",
565     "LarosateID": -1

```

```

566     },
567     {
568         "Benamning": {
569             "sv": "Grekiska",
570             "en": "Greek"
571         },
572         "Beskrivning": {},
573         "Dolt": false,
574         "Giltighetsperiod": {},
575         "ID": "57",
576         "Kod": "GR1",
577         "LarosateID": -1
578     },
579     {
580         "Benamning": {
581             "sv": "Genusstudier",
582             "en": "Gender Studies"
583         },
584         "Beskrivning": {},
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592         "Benamning": {
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594             "en": "Animal Science"
595         },
596         "Beskrivning": {},
597         "Dolt": false,
598         "Giltighetsperiod": {},
599         "ID": "59",
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604         "Benamning": {
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606             "en": "Hebrew"
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608         "Beskrivning": {},
609         "Dolt": false,
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613         "LarosateID": -1
614     },
615     {
616         "Benamning": {

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617     "sv": "\u00d6vrigt inom historisk-filosofiska \u00e4mnen",
618     "en": "Other Subjects within the Humanities"
619 },
620 "Beskrivning": {},
621 "Dolt": false,
622 "Giltighetsperiod": {},
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624 "Kod": "HF9",
625 "LarosateID": -1
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630     "en": "Hindi"
631   },
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633   "Dolt": false,
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635   "ID": "62",
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638 },
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640   "Benamning": {
641     "sv": "Historia",
642     "en": "History"
643   },
644   "Beskrivning": {},
645   "Dolt": false,
646   "Giltighetsperiod": {},
647   "ID": "63",
648   "Kod": "HI2",
649   "LarosateID": -1
650 },
651 {
652   "Benamning": {
653     "sv": "H\u00e4lsa- och sjukv\u00e5rdsutveckling",
654     "en": "Health and Society"
655   },
656   "Beskrivning": {},
657   "Dolt": false,
658   "Giltighetsperiod": {},
659   "ID": "64",
660   "Kod": "HS1",
661   "LarosateID": -1
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664   "Benamning": {
665     "sv": "Handikappvetenskap",
666     "en": "Disability Studies"
667   },
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668     "Beskrivning": {},
669     "Dolt": false,
670     "Giltighetsperiod": {},
671     "ID": "65",
672     "Kod": "HV1",
673     "LarosateID": -1
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676     "Benamning": {
677         "sv": "Idrott/idrottsvetenskap",
678         "en": "Sport Science"
679     },
680     "Beskrivning": {},
681     "Dolt": false,
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683     "ID": "66",
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688     "Benamning": {
689         "sv": "Industriell ekonomi och organisation",
690         "en": "Industrial Engineering and Management"
691     },
692     "Beskrivning": {},
693     "Dolt": false,
694     "Giltighetsperiod": {},
695     "ID": "67",
696     "Kod": "IE1",
697     "LarosateID": -1
698 },
699 {
700     "Benamning": {
701         "sv": "Informatik/data- och systemvetenskap",
702         "en": "Informatics/Computer and Systems Sciences"
703     },
704     "Beskrivning": {},
705     "Dolt": false,
706     "Giltighetsperiod": {},
707     "ID": "68",
708     "Kod": "IF1",
709     "LarosateID": -1
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712     "Benamning": {
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714         "en": "History of Science and Ideas/History of Ideas"
715     },
716     "Beskrivning": {},
717     "Dolt": false,
718     "Giltighetsperiod": {},

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722 },
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726         "en": "Indonesian"
727     },
728     "Beskrivning": {},
729     "Dolt": false,
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731     "ID": "70",
732     "Kod": "IN1",
733     "LarosateID": -1
734 },
735 {
736     "Benamning": {
737         "sv": "Indologi och sanskrit",
738         "en": "Indology and Sanskrit"
739     },
740     "Beskrivning": {},
741     "Dolt": false,
742     "Giltighetsperiod": {},
743     "ID": "71",
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750         "en": "Italian"
751     },
752     "Beskrivning": {},
753     "Dolt": false,
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755     "ID": "72",
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762         "en": "Japanese"
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767     "ID": "73",
768     "Kod": "JA1",
769     "LarosateID": -1

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774     "en": "Other Subjects within Journalism, Communication and Information"
775   },
776   "Beskrivning": {},
777   "Dolt": false,
778   "Giltighetsperiod": {},
779   "ID": "74",
780   "Kod": "JK9",
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785     "sv": "Journalistik",
786     "en": "Journalism"
787   },
788   "Beskrivning": {},
789   "Dolt": false,
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791   "ID": "75",
792   "Kod": "J01",
793   "LarosateID": -1
794 },
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796   "Benamning": {
797     "sv": "Juridik och r\u00e4ttsvetenskap",
798     "en": "Law and Legal Studies"
799   },
800   "Beskrivning": {},
801   "Dolt": false,
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811   },
812   "Beskrivning": {},
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818 },
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822         "en": "Craft"
823     },
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833         "sv": "Kinesiska",
834         "en": "Chinese"
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836     "Beskrivning": {},
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846         "en": "Korean"
847     },
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856     "Benamning": {
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858         "en": "Choreography"
859     },
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861     "Dolt": false,
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863     "ID": "81",
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871     },
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875     "ID": "91",
876     "Kod": "LA1",
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883     },
884     "Beskrivning": {},
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887     "ID": "92",
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894         "en": "Latvian"
895     },
896     "Beskrivning": {},
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905         "sv": "Luftfart",
906         "en": "Aviation"
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930         "en": "Country Knowledge/Country Studies"
931     },
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933     "Dolt": false,
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942         "en": "Food Science"
943     },
944     "Beskrivning": {},
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951 {
952     "Benamning": {
953         "sv": "Ledarskap, organisation och styrning",
954         "en": "Leadership, Organisation and Management"
955     },
956     "Beskrivning": {},
957     "Dolt": false,
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961     "LarosateID": -1
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965         "sv": "Litteraturvetenskap",
966         "en": "Comparative Literature"
967     },
968     "Beskrivning": {},
969     "Dolt": false,
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972     "Kod": "LV1",
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977         "sv": "Lantbruksvetenskap",
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979       },
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983       "ID": "100",
984       "Kod": "LV2",
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990         "en": "Mathematics"
991       },
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993       "Dolt": false,
994       "Giltighetsperiod": {},
995       "ID": "101",
996       "Kod": "MA1",
997       "LarosateID": -1
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1002         "en": "Materials Technology"
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1005       "Dolt": false,
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1007       "ID": "102",
1008       "Kod": "MA2",
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1013         "sv": "Medicinsk biologi",
1014         "en": "Medical Biology"
1015       },
1016       "Beskrivning": {},
1017       "Dolt": false,
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1026     "en": "Operatic Stagecraft and Characterization"
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1029 "Dolt": false,
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1038     "en": "Medicine"
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1050     "en": "Other Subjects within Medicine"
1051   },
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1053   "Dolt": false,
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1056   "Kod": "ME9",
1057   "LarosateID": -1
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1062     "en": "Culinary Arts and Home Economics Studies"
1063   },
1064   "Beskrivning": {},
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1074     "en": "Media and Communication Studies"
1075   },
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1099     },
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1101     "Dolt": false,
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1136     "Beskrivning": {},
1137     "Dolt": false,
1138     "Giltighetsperiod": {},
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1140     "Kod": "NU1",
1141     "LarosateID": -1
1142 },
1143 {
1144     "Benamning": {
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1146         "en": "Odontology"
1147     },
1148     "Beskrivning": {},
1149     "Dolt": false,
1150     "Giltighetsperiod": {},
1151     "ID": "123",
1152     "Kod": "OD1",
1153     "LarosateID": -1
1154 },
1155 {
1156     "Benamning": {
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1158         "en": "Nursing Science"
1159     },
1160     "Beskrivning": {},
1161     "Dolt": false,
1162     "Giltighetsperiod": {},
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1164     "Kod": "OM1",
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1166 },
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1168     "Benamning": {
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1170         "en": "Other Subjects within Nursing Science"
1171     },
1172     "Beskrivning": {},
1173     "Dolt": false,
1174     "Giltighetsperiod": {},
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1176     "Kod": "OM9",
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1182             "en": "Education"
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1184         "Beskrivning": {},
1185         "Dolt": false,
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1194             "en": "Russian"
1195         },
1196         "Beskrivning": {},
1197         "Dolt": false,
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1205             "sv": "Rymdteknik",
1206             "en": "Space Technology"
1207         },
1208         "Beskrivning": {},
1209         "Dolt": false,
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1218             "en": "Sami Languages"
1219         },
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1230     "en": "Other Subjects within Social Science"
1231 },
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1242     "en": "Civil and Environmental Engineering"
1243   },
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1252   "Benamning": {
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1254     "en": "Social Studies"
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1266     "en": "Shipping"
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1274 },
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1276   "Benamning": {
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1278     "en": "Forest Science"
1279   },

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1290         "en": "Performing Arts and Media"
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1302         "en": "Swahili"
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1309     "LarosateID": -1
1310 },
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1314         "en": "Student and Vocational Counselling"
1315     },
1316     "Beskrivning": {},
1317     "Dolt": false,
1318     "Giltighetsperiod": {},
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1320     "Kod": "SY1",
1321     "LarosateID": -1
1322 },
1323 {
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1325         "sv": "Tamil",
1326         "en": "Tamil Language"
1327     },
1328     "Beskrivning": {},
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1333     "LarosateID": -1
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1338         "en": "Sign Language"
1339     },
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1350         "en": "Other Subjects within Technology"
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1362         "en": "Engineering Physics"
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1374         "en": "Other Subjects within Performing Arts"
1375     },
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1482     "en": "Technology from a Social Perspective"
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1506         "en": "Tourism and Recreation Studies"
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1518         "en": "Library and Information Science"
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1545     "Dolt": false,
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1548     "Kod": "CI1",
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1554         "en": "Danish"
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1602     "en": "Computer Technology"
1603   },
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1614     "en": "Dance and Theatre Studies"
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1626     "en": "Other Subjects within Arts"
1627   },
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1650     "en": "Cultural and Social Geography"
1651   },
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1686     "en": "Conservation"
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1782         "en": "Mechanical Engineering"
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1806         "en": "Music"
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1818         "en": "Environmental Science"
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1830         "en": "Musicology"
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1866     "en": "Psychology"
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1938         "en": "Religious Studies"
1939     },
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1952     "Beskrivning": {},
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1962         "en": "Social Anthropology"
1963     },
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1974         "en": "Spanish"
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1986         "en": "Other Languages"
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1992     "Kod": "SP2",
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1998             "en": "Swedish as a Second Language"
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2010             "en": "Social Work and Social Welfare"
2011         },
2012         "Beskrivning": {},
2013         "Dolt": false,
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2022             "en": "Statistics"
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2047     },
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2070         "en": "Other Interdisciplinary Studies"
2071     },
2072     "Beskrivning": {},
2073     "Dolt": false,
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2080     "Benamning": {
2081         "sv": "Textilteknologi",
2082         "en": "Textile Technology"
2083     },
2084     "Beskrivning": {},
2085     "Dolt": false,
2086     "Giltighetsperiod": {},
2087     "ID": "174",
2088     "Kod": "TX1",
2089     "LarosateID": -1
2090 },
2091 {
2092     "Benamning": {
2093         "sv": "Tyska",
2094         "en": "German"
2095     },

```



```

2096     "Beskrivning": {},
2097     "Dolt": false,
2098     "Giltighetsperiod": {},
2099     "ID": "175",
2100     "Kod": "TY1",
2101     "LarosateID": -1
2102 },
2103 {
2104     "Benamning": {
2105         "sv": "Ungerska",
2106         "en": "Hungarian"
2107     },
2108     "Beskrivning": {},
2109     "Dolt": false,
2110     "Giltighetsperiod": {},
2111     "ID": "176",
2112     "Kod": "UN1",
2113     "LarosateID": -1
2114 },
2115 {
2116     "Benamning": {
2117         "sv": "Utbildningsvetenskap/didaktik allm\u00e4nt",
2118         "en": "Educational Sciences/General Didactics"
2119     },
2120     "Beskrivning": {},
2121     "Dolt": false,
2122     "Giltighetsperiod": {},
2123     "ID": "177",
2124     "Kod": "UV1",
2125     "LarosateID": -1
2126 },
2127 {
2128     "Benamning": {
2129         "sv": "Utbildningsvetenskap teoretiska \u00e4mnen",
2130         "en": "Educational Sciences/Theoretical Subjects"
2131     },
2132     "Beskrivning": {},
2133     "Dolt": false,
2134     "Giltighetsperiod": {},
2135     "ID": "178",
2136     "Kod": "UV2",
2137     "LarosateID": -1
2138 },
2139 {
2140     "Benamning": {
2141         "sv": "Utbildningsvetenskap praktisk-estetiska \u00e4mnen",
2142         "en": "Educational Sciences/Practical Subjects"
2143     },
2144     "Beskrivning": {},
2145     "Dolt": false,
2146     "Giltighetsperiod": {},

```

```

2147     "ID": "179",
2148     "Kod": "UV3",
2149     "LarosateID": -1
2150 },
2151 {
2152     "Benamning": {
2153         "sv": "Veterin\u00e4rmedicin",
2154         "en": "Veterinary Medicine"
2155     },
2156     "Beskrivning": {},
2157     "Dolt": false,
2158     "Giltighetsperiod": {},
2159     "ID": "180",
2160     "Kod": "VE1",
2161     "LarosateID": -1
2162 },
2163 {
2164     "Benamning": {
2165         "sv": "V\u00e4g- och vattenbyggnad",
2166         "en": "Civil Engineering"
2167     },
2168     "Beskrivning": {},
2169     "Dolt": false,
2170     "Giltighetsperiod": {},
2171     "ID": "181",
2172     "Kod": "VV1",
2173     "LarosateID": -1
2174 }
2175 ]
2176 }

```

20.15 studietakt_JSON

```

1075a <LadokSession data methods 126b>+=
# added by GQMJr
def studietakt_JSON(self):
    """
    Returns study paces.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url + '/kataloginformation/internal/grunddata/studietakt',
        headers=self.headers).json()
    return r

```

Let's add a test. This should return a dictionary.

```

1075b <test functions 126a>+=
def test_studietakt_JSON():
    r = ladok.studietakt_JSON()
    assert type(r) == dict

```

This code is used in chunk 121.

The output looks like this:

```

1  {
2    "Studietakt": [
3      {
4        "Benamning": {
5          "sv": "Tiondelsfart",
6          "en": "One-tenth-time"
7        },
8        "Beskrivning": {},
9        "Dolt": false,
10       "Giltighetsperiod": {},
11       "ID": "8",
12       "Kod": "10",
13       "LarosateID": -1,
14       "Takt": 10
15     },
16     {
17       "Benamning": {
18         "sv": "Helfart",
19         "en": "Full-time"
20       },
21       "Beskrivning": {},
22       "Dolt": false,
23       "Giltighetsperiod": {},
24       "ID": "1",
25       "Kod": "100",
26       "LarosateID": -1,
27       "Takt": 100
28     },
29     {
30       "Benamning": {
31         "sv": "\u00c5ttondelsfart",
32         "en": "One-eight-time"
33       },
34       "Beskrivning": {},
35       "Dolt": false,
36       "Giltighetsperiod": {},
37       "ID": "128190",
38       "Kod": "12",
39       "LarosateID": -1,
40       "Takt": 12
41     },
42     {
43       "Benamning": {
44         "sv": "Sj\u00e4ttedelsfart",
45         "en": "One-sixth-time"
46       },
47       "Beskrivning": {},
48       "Dolt": false,
49       "Giltighetsperiod": {},

```

```

50     "ID": "7",
51     "Kod": "17",
52     "LarosateID": -1,
53     "Takt": 17
54 },
55 {
56     "Benamning": {
57         "sv": "Kvartsfart",
58         "en": "One-quarter-time"
59     },
60     "Beskrivning": {},
61     "Dolt": false,
62     "Giltighetsperiod": {},
63     "ID": "6",
64     "Kod": "25",
65     "LarosateID": -1,
66     "Takt": 25
67 },
68 {
69     "Benamning": {
70         "sv": "Tredjedelsfart",
71         "en": "One-third-time"
72     },
73     "Beskrivning": {},
74     "Dolt": false,
75     "Giltighetsperiod": {},
76     "ID": "5",
77     "Kod": "33",
78     "LarosateID": -1,
79     "Takt": 33
80 },
81 {
82     "Benamning": {
83         "sv": "Halvfart",
84         "en": "Half-time"
85     },
86     "Beskrivning": {},
87     "Dolt": false,
88     "Giltighetsperiod": {},
89     "ID": "4",
90     "Kod": "50",
91     "LarosateID": -1,
92     "Takt": 50
93 },
94 {
95     "Benamning": {
96         "sv": "Tv\u00e5tredjedelsfart",
97         "en": "Two-thirds-time"
98     },
99     "Beskrivning": {
100         "sv": "\u00c4ndras till \"Tv\u00e5tredjedelsfart\" efter fullbordad produktionss\u00e4ttning."

```

```

101     },
102     "Dolt": false,
103     "Giltighetsperiod": {},
104     "ID": "3",
105     "Kod": "67",
106     "LarosateID": -1,
107     "Takt": 67
108 },
109 {
110     "Benamning": {
111         "sv": "Trekvartsfart",
112         "en": "Three-quarters-time"
113     },
114     "Beskrivning": {},
115     "Dolt": false,
116     "Giltighetsperiod": {},
117     "ID": "2",
118     "Kod": "75",
119     "LarosateID": -1,
120     "Takt": 75
121 },
122 {
123     "Benamning": {
124         "sv": "Noll",
125         "en": "- No translation available -"
126     },
127     "Beskrivning": {},
128     "Dolt": false,
129     "Giltighetsperiod": {
130         "Slutdatum": "2018-06-19"
131     },
132     "ID": "133268",
133     "Kod": "0",
134     "LarosateID": 29,
135     "Takt": 0
136 },
137 {
138     "Benamning": {
139         "sv": "Kvartstid",
140         "en": "One-quarter-time"
141     },
142     "Beskrivning": {},
143     "Dolt": false,
144     "Giltighetsperiod": {
145         "Slutdatum": "2018-06-19"
146     },
147     "ID": "133270",
148     "Kod": "1",
149     "LarosateID": 29,
150     "Takt": 1
151 },

```

```
152     {
153         "Benamning": {
154             "sv": "Kvartstid",
155             "en": "One-quarter-time"
156         },
157         "Beskrivning": {},
158         "Dolt": false,
159         "Giltighetsperiod": {
160             "Slutdatum": "2018-06-19"
161         },
162         "ID": "133282",
163         "Kod": "11",
164         "LarosateID": 29,
165         "Takt": 11
166     },
167     {
168         "Benamning": {
169             "sv": "Kvartstid",
170             "en": "One-quarter-time"
171         },
172         "Beskrivning": {},
173         "Dolt": false,
174         "Giltighetsperiod": {
175             "Slutdatum": "2018-06-19"
176         },
177         "ID": "133281",
178         "Kod": "13",
179         "LarosateID": 29,
180         "Takt": 13
181     },
182     {
183         "Benamning": {
184             "sv": "Kvartstid",
185             "en": "One-quarter-time"
186         },
187         "Beskrivning": {},
188         "Dolt": false,
189         "Giltighetsperiod": {
190             "Slutdatum": "2018-06-19"
191         },
192         "ID": "133278",
193         "Kod": "14",
194         "LarosateID": 29,
195         "Takt": 14
196     },
197     {
198         "Benamning": {
199             "sv": "Kvartstid",
200             "en": "One-quarter-time"
201         },
202         "Beskrivning": {},
```

```
203     "Dolt": false,
204     "Giltighetsperiod": {
205         "Slutdatum": "2018-06-19"
206     },
207     "ID": "133283",
208     "Kod": "15",
209     "LarosateID": 29,
210     "Takt": 15
211 },
212 {
213     "Benamning": {
214         "sv": "Kvartstid",
215         "en": "One-quarter-time"
216     },
217     "Beskrivning": {},
218     "Dolt": false,
219     "Giltighetsperiod": {
220         "Slutdatum": "2018-06-19"
221     },
222     "ID": "133280",
223     "Kod": "16",
224     "LarosateID": 29,
225     "Takt": 16
226 },
227 {
228     "Benamning": {
229         "sv": "Kvartstid",
230         "en": "One-quarter-time"
231     },
232     "Beskrivning": {},
233     "Dolt": false,
234     "Giltighetsperiod": {
235         "Slutdatum": "2018-06-19"
236     },
237     "ID": "133289",
238     "Kod": "18",
239     "LarosateID": 29,
240     "Takt": 18
241 },
242 {
243     "Benamning": {
244         "sv": "Kvartstid",
245         "en": "One-quarter-time"
246     },
247     "Beskrivning": {},
248     "Dolt": false,
249     "Giltighetsperiod": {
250         "Slutdatum": "2018-06-19"
251     },
252     "ID": "133279",
253     "Kod": "19",
```

```
254     "LarosateID": 29,
255     "Takt": 19
256 },
257 {
258     "Benamning": {
259         "sv": "Kvartstid",
260         "en": "One-quarter-time"
261     },
262     "Beskrivning": {},
263     "Dolt": false,
264     "Giltighetsperiod": {
265         "Slutdatum": "2018-06-19"
266     },
267     "ID": "133271",
268     "Kod": "2",
269     "LarosateID": 29,
270     "Takt": 2
271 },
272 {
273     "Benamning": {
274         "sv": "Kvartstid",
275         "en": "One-quarter-time"
276     },
277     "Beskrivning": {},
278     "Dolt": false,
279     "Giltighetsperiod": {
280         "Slutdatum": "2018-06-19"
281     },
282     "ID": "133285",
283     "Kod": "20",
284     "LarosateID": 29,
285     "Takt": 20
286 },
287 {
288     "Benamning": {
289         "sv": "Kvartstid",
290         "en": "One-quarter-time"
291     },
292     "Beskrivning": {},
293     "Dolt": false,
294     "Giltighetsperiod": {
295         "Slutdatum": "2018-06-19"
296     },
297     "ID": "133287",
298     "Kod": "21",
299     "LarosateID": 29,
300     "Takt": 21
301 },
302 {
303     "Benamning": {
304         "sv": "Kvartstid",
```



```
305         "en": "One-quarter-time"
306     },
307     "Beskrivning": {},
308     "Dolt": false,
309     "Giltighetsperiod": {
310         "Slutdatum": "2018-06-19"
311     },
312     "ID": "133290",
313     "Kod": "22",
314     "LarosateID": 29,
315     "Takt": 22
316 },
317 {
318     "Benamning": {
319         "sv": "Kvartstid",
320         "en": "One-quarter-time"
321     },
322     "Beskrivning": {},
323     "Dolt": false,
324     "Giltighetsperiod": {
325         "Slutdatum": "2018-06-19"
326     },
327     "ID": "133284",
328     "Kod": "23",
329     "LarosateID": 29,
330     "Takt": 23
331 },
332 {
333     "Benamning": {
334         "sv": "Kvartstid",
335         "en": "One-quarter-time"
336     },
337     "Beskrivning": {},
338     "Dolt": false,
339     "Giltighetsperiod": {
340         "Slutdatum": "2018-06-19"
341     },
342     "ID": "133286",
343     "Kod": "24",
344     "LarosateID": 29,
345     "Takt": 24
346 },
347 {
348     "Benamning": {
349         "sv": "Kvartstid",
350         "en": "One-quarter-time"
351     },
352     "Beskrivning": {},
353     "Dolt": false,
354     "Giltighetsperiod": {
355         "Slutdatum": "2018-06-19"
```

```
356     },
357     "ID": "133288",
358     "Kod": "26",
359     "LarosateID": 29,
360     "Takt": 26
361 },
362 {
363     "Benamning": {
364         "sv": "Kvartstid",
365         "en": "One-quarter-time"
366     },
367     "Beskrivning": {},
368     "Dolt": false,
369     "Giltighetsperiod": {
370         "Slutdatum": "2018-06-19"
371     },
372     "ID": "133291",
373     "Kod": "27",
374     "LarosateID": 29,
375     "Takt": 27
376 },
377 {
378     "Benamning": {
379         "sv": "Kvartstid",
380         "en": "One-quarter-time"
381     },
382     "Beskrivning": {},
383     "Dolt": false,
384     "Giltighetsperiod": {
385         "Slutdatum": "2018-06-19"
386     },
387     "ID": "133292",
388     "Kod": "28",
389     "LarosateID": 29,
390     "Takt": 28
391 },
392 {
393     "Benamning": {
394         "sv": "Kvartstid",
395         "en": "One-quarter-time"
396     },
397     "Beskrivning": {},
398     "Dolt": false,
399     "Giltighetsperiod": {
400         "Slutdatum": "2018-06-19"
401     },
402     "ID": "133294",
403     "Kod": "29",
404     "LarosateID": 29,
405     "Takt": 29
406 },
```

```
407     {
408         "Benamning": {
409             "sv": "Kvartstid",
410             "en": "One-quarter-time"
411         },
412         "Beskrivning": {},
413         "Dolt": false,
414         "Giltighetsperiod": {
415             "Slutdatum": "2018-06-19"
416         },
417         "ID": "133274",
418         "Kod": "3",
419         "LarosateID": 29,
420         "Takt": 3
421     },
422     {
423         "Benamning": {
424             "sv": "Kvartstid",
425             "en": "One-quarter-time"
426         },
427         "Beskrivning": {},
428         "Dolt": false,
429         "Giltighetsperiod": {
430             "Slutdatum": "2018-06-19"
431         },
432         "ID": "133293",
433         "Kod": "30",
434         "LarosateID": 29,
435         "Takt": 30
436     },
437     {
438         "Benamning": {
439             "sv": "Kvartstid",
440             "en": "One-quarter-time"
441         },
442         "Beskrivning": {},
443         "Dolt": false,
444         "Giltighetsperiod": {
445             "Slutdatum": "2018-06-19"
446         },
447         "ID": "133296",
448         "Kod": "31",
449         "LarosateID": 29,
450         "Takt": 31
451     },
452     {
453         "Benamning": {
454             "sv": "Kvartstid",
455             "en": "One-quarter-time"
456         },
457         "Beskrivning": {},
```

```
458     "Dolt": false,
459     "Giltighetsperiod": {
460         "Slutdatum": "2018-06-19"
461     },
462     "ID": "133295",
463     "Kod": "32",
464     "LarosateID": 29,
465     "Takt": 32
466 },
467 {
468     "Benamning": {
469         "sv": "Kvartstid",
470         "en": "One-quarter-time"
471     },
472     "Beskrivning": {},
473     "Dolt": false,
474     "Giltighetsperiod": {
475         "Slutdatum": "2018-06-19"
476     },
477     "ID": "133299",
478     "Kod": "34",
479     "LarosateID": 29,
480     "Takt": 34
481 },
482 {
483     "Benamning": {
484         "sv": "Kvartstid",
485         "en": "One-quarter-time"
486     },
487     "Beskrivning": {},
488     "Dolt": false,
489     "Giltighetsperiod": {
490         "Slutdatum": "2018-06-19"
491     },
492     "ID": "133298",
493     "Kod": "35",
494     "LarosateID": 29,
495     "Takt": 35
496 },
497 {
498     "Benamning": {
499         "sv": "Kvartstid",
500         "en": "One-quarter-time"
501     },
502     "Beskrivning": {},
503     "Dolt": false,
504     "Giltighetsperiod": {
505         "Slutdatum": "2018-06-19"
506     },
507     "ID": "133297",
508     "Kod": "36",
```

```
509     "LarosateID": 29,
510     "Takt": 36
511 },
512 {
513     "Benamning": {
514         "sv": "Kvartstid",
515         "en": "One-quarter-time"
516     },
517     "Beskrivning": {},
518     "Dolt": false,
519     "Giltighetsperiod": {
520         "Slutdatum": "2018-06-19"
521     },
522     "ID": "133307",
523     "Kod": "37",
524     "LarosateID": 29,
525     "Takt": 37
526 },
527 {
528     "Benamning": {
529         "sv": "Halvtid",
530         "en": "Halftime"
531     },
532     "Beskrivning": {},
533     "Dolt": false,
534     "Giltighetsperiod": {
535         "Slutdatum": "2018-06-19"
536     },
537     "ID": "133303",
538     "Kod": "38",
539     "LarosateID": 29,
540     "Takt": 38
541 },
542 {
543     "Benamning": {
544         "sv": "Halvtid",
545         "en": "Halftime"
546     },
547     "Beskrivning": {},
548     "Dolt": false,
549     "Giltighetsperiod": {
550         "Slutdatum": "2018-06-19"
551     },
552     "ID": "133300",
553     "Kod": "39",
554     "LarosateID": 29,
555     "Takt": 39
556 },
557 {
558     "Benamning": {
559         "sv": "Kvartstid",
```

```
560     "en": "One-quarter-time"
561   },
562   "Beskrivning": {},
563   "Dolt": false,
564   "Giltighetsperiod": {
565     "Slutdatum": "2018-06-19"
566   },
567   "ID": "133269",
568   "Kod": "4",
569   "LarosateID": 29,
570   "Takt": 4
571 },
572 {
573   "Benamning": {
574     "sv": "Halvtid",
575     "en": "Halftime"
576   },
577   "Beskrivning": {},
578   "Dolt": false,
579   "Giltighetsperiod": {
580     "Slutdatum": "2018-06-19"
581   },
582   "ID": "133302",
583   "Kod": "40",
584   "LarosateID": 29,
585   "Takt": 40
586 },
587 {
588   "Benamning": {
589     "sv": "Halvtid",
590     "en": "Halftime"
591   },
592   "Beskrivning": {},
593   "Dolt": false,
594   "Giltighetsperiod": {
595     "Slutdatum": "2018-06-19"
596   },
597   "ID": "133304",
598   "Kod": "41",
599   "LarosateID": 29,
600   "Takt": 41
601 },
602 {
603   "Benamning": {
604     "sv": "Halvtid",
605     "en": "Halftime"
606   },
607   "Beskrivning": {},
608   "Dolt": false,
609   "Giltighetsperiod": {
610     "Slutdatum": "2018-06-19"
```

```
611     },
612     "ID": "133305",
613     "Kod": "42",
614     "LarosateID": 29,
615     "Takt": 42
616 },
617 {
618     "Benamning": {
619         "sv": "Halvtid",
620         "en": "Halftime"
621     },
622     "Beskrivning": {},
623     "Dolt": false,
624     "Giltighetsperiod": {
625         "Slutdatum": "2018-06-19"
626     },
627     "ID": "133301",
628     "Kod": "43",
629     "LarosateID": 29,
630     "Takt": 43
631 },
632 {
633     "Benamning": {
634         "sv": "Halvtid",
635         "en": "Halftime"
636     },
637     "Beskrivning": {},
638     "Dolt": false,
639     "Giltighetsperiod": {
640         "Slutdatum": "2018-06-19"
641     },
642     "ID": "133312",
643     "Kod": "44",
644     "LarosateID": 29,
645     "Takt": 44
646 },
647 {
648     "Benamning": {
649         "sv": "Halvtid",
650         "en": "Halftime"
651     },
652     "Beskrivning": {},
653     "Dolt": false,
654     "Giltighetsperiod": {
655         "Slutdatum": "2018-06-19"
656     },
657     "ID": "133308",
658     "Kod": "45",
659     "LarosateID": 29,
660     "Takt": 45
661 },
```

```
662     {
663         "Benamning": {
664             "sv": "Halvtid",
665             "en": "Halftime"
666         },
667         "Beskrivning": {},
668         "Dolt": false,
669         "Giltighetsperiod": {
670             "Slutdatum": "2018-06-19"
671         },
672         "ID": "133306",
673         "Kod": "46",
674         "LarosateID": 29,
675         "Takt": 46
676     },
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1427     {
1428         "Benamning": {
1429             "sv": "N\u00e4stan heltid",
1430             "en": "Almost full-time"
1431         },
1432         "Beskrivning": {},
1433         "Dolt": false,
1434         "Giltighetsperiod": {
1435             "Slutdatum": "2018-06-19"
1436         },
1437         "ID": "133351",
1438         "Kod": "95",
1439         "LarosateID": 29,
1440         "Takt": 95
1441     },
1442     {
1443         "Benamning": {
1444             "sv": "N\u00e4stan heltid",
1445             "en": "Almost full-time"
1446         },
1447         "Beskrivning": {},
1448         "Dolt": false,
1449         "Giltighetsperiod": {
1450             "Slutdatum": "2018-06-19"
1451         },
1452         "ID": "133355",
1453         "Kod": "96",
1454         "LarosateID": 29,
1455         "Takt": 96
1456     },
1457     {
1458         "Benamning": {
1459             "sv": "N\u00e4stan heltid",
1460             "en": "Almost full-time"
1461         },
1462         "Beskrivning": {},
1463         "Dolt": false,
1464         "Giltighetsperiod": {
1465             "Slutdatum": "2018-06-19"
1466         },
1467         "ID": "133357",
1468         "Kod": "97",
1469         "LarosateID": 29,
1470         "Takt": 97
1471     },
1472     {
1473         "Benamning": {
1474             "sv": "N\u00e4stan heltid",
1475             "en": "Almost full-time"
1476         },
1477         "Beskrivning": {},
```

```

1478     "Dolt": false,
1479     "Giltighetsperiod": {
1480         "Slutdatum": "2018-06-19"
1481     },
1482     "ID": "133356",
1483     "Kod": "98",
1484     "LarosateID": 29,
1485     "Takt": 98
1486 },
1487 {
1488     "Benamning": {
1489         "sv": "N\u00e4stan heltid",
1490         "en": "Almost full-time"
1491     },
1492     "Beskrivning": {},
1493     "Dolt": false,
1494     "Giltighetsperiod": {
1495         "Slutdatum": "2018-06-19"
1496     },
1497     "ID": "133359",
1498     "Kod": "99",
1499     "LarosateID": 29,
1500     "Takt": 99
1501 }
1502 ]
1503 }

```

20.16 finansieringsform_JSON

```

1105a <LadokSession data methods 126b>+=
# added by GQMjr
def finansieringsform_JSON(self):
    """
    Returns forms of financing.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/finansieringsform',
        headers=self.headers).json()
    return r

```

Let's add a test. This should return a dictionary.

```

1105b <test functions 126a>+=
def test_finansieringsform_JSON():
    r = ladok.finansieringsform_JSON()
    assert type(r) == dict

```

This code is used in chunk 121.

The output looks like this:

```

1 {

```



```

2  "Finansieringsform": [
3    {
4      "Benamning": {
5        "sv": "Aspirantutbildning",
6        "en": "Bridging programme for graduates with foreign qualifications"
7      },
8      "Beskrivning": {},
9      "Dolt": true,
10     "Giltighetsperiod": {
11       "Slutdatum": "2016-06-30"
12     },
13     "ID": "102078",
14     "Kod": "A",
15     "LarosateID": -1
16   },
17   {
18     "Benamning": {
19       "sv": "Bas\u00e5rsutbildning",
20       "en": "Foundation year programme"
21     },
22     "Beskrivning": {},
23     "Dolt": false,
24     "Giltighetsperiod": {},
25     "ID": "102085",
26     "Kod": "B",
27     "LarosateID": -1
28   },
29   {
30     "Benamning": {
31       "sv": "Distanskonsortiekurs",
32       "en": "Distance consortium course"
33     },
34     "Beskrivning": {},
35     "Dolt": true,
36     "Giltighetsperiod": {
37       "Slutdatum": "2016-06-30"
38     },
39     "ID": "102080",
40     "Kod": "D",
41     "LarosateID": -1
42   },
43   {
44     "Benamning": {
45       "sv": "Fortbildningskurs f\u00f6r skolpersonal",
46       "en": "Continuing professional development course for teachers"
47     },
48     "Beskrivning": {},
49     "Dolt": true,
50     "Giltighetsperiod": {
51       "Slutdatum": "2016-06-30"
52     },

```

```

53     "ID": "102076",
54     "Kod": "F",
55     "LarosateID": -1
56 },
57 {
58     "Benamning": {
59         "sv": "Flexibla v\u00e4gar in i l\u00e4raryrket",
60         "en": "Flexible roads into the teaching profession"
61     },
62     "Beskrivning": {
63         "sv": "Regeringsuppdrag \u00e5t Ume\u00e5 universitet att leda ett arbete med att ta fram\u00e4t n\u00e4ringslivet",
64     },
65     "Dolt": true,
66     "Giltighetsperiod": {},
67     "ID": "149937",
68     "Kod": "FVI",
69     "LarosateID": -1
70 },
71 {
72     "Benamning": {
73         "sv": "Kombinationsutbildning",
74         "en": "Combined education"
75     },
76     "Beskrivning": {},
77     "Dolt": true,
78     "Giltighetsperiod": {
79         "Slutdatum": "2016-06-30"
80     },
81     "ID": "102077",
82     "Kod": "KB",
83     "LarosateID": -1
84 },
85 {
86     "Benamning": {
87         "sv": "Finansiering via KK-stiftelsen",
88         "en": "Funded by the Knowledge Foundation"
89     },
90     "Beskrivning": {},
91     "Dolt": true,
92     "Giltighetsperiod": {},
93     "ID": "136090",
94     "Kod": "KK",
95     "LarosateID": -1
96 },
97 {
98     "Benamning": {
99         "sv": "Kompletterande pedagogisk utbildning till grundl\u00e4r- eller \u00e4mnesl\u00e4rare",
100        "en": "Supplementary pedagogical education aiming to a degree in primary education or a degree in subject education",
101    },
102    "Beskrivning": {
103        "sv": "SFS 2021:1336 F\u00f6rskole\u00f6rskoleverksamhet med kompletterande pedagogisk utbildning som l\u00e4gger till grundf\u00f6rskola",

```

```

104     },
105     "Dolt": false,
106     "Giltighetsperiod": {},
107     "ID": "153256",
108     "Kod": "KPL",
109     "LarosateID": -1
110 },
111 {
112     "Benamning": {
113         "sv": "Livsl\u00e5ngt l\u00e5rande",
114         "en": "Life long learning"
115     },
116     "Beskrivning": {
117         "sv": "S\u00e4rskild satsning fr.o.m. 2021 enligt l\u00e5ros\u00e4ttens regleringsbrev"
118     },
119     "Dolt": false,
120     "Giltighetsperiod": {
121         "Startdatum": "2021-01-01"
122     },
123     "ID": "151411",
124     "Kod": "LL",
125     "LarosateID": -1
126 },
127 {
128     "Benamning": {
129         "sv": "NT/SVUX-utbildning",
130         "en": "Adult education in science and applied science"
131     },
132     "Beskrivning": {},
133     "Dolt": true,
134     "Giltighetsperiod": {
135         "Slutdatum": "2016-06-30"
136     },
137     "ID": "102075",
138     "Kod": "NT",
139     "LarosateID": -1
140 },
141 {
142     "Benamning": {
143         "sv": "N\u00e4tuniversitetet",
144         "en": "Net university course"
145     },
146     "Beskrivning": {},
147     "Dolt": true,
148     "Giltighetsperiod": {
149         "Slutdatum": "2016-06-30"
150     },
151     "ID": "102079",
152     "Kod": "NU",
153     "LarosateID": -1
154 },

```

```

155     {
156       "Benamning": {
157         "sv": "Ordinarie anslagsfinansiering",
158         "en": "Regular government funding"
159       },
160       "Beskrivning": {},
161       "Dolt": false,
162       "Giltighetsperiod": {},
163       "ID": "101050",
164       "Kod": "ORD",
165       "LarosateID": -1
166     },
167     {
168       "Benamning": {
169         "sv": "Sommarkurs",
170         "en": "Summer course"
171       },
172       "Beskrivning": {},
173       "Dolt": true,
174       "Giltighetsperiod": {},
175       "ID": "102074",
176       "Kod": "S",
177       "LarosateID": -1
178     },
179     {
180       "Benamning": {
181         "sv": "S\u00e4rskild utbildningssatsning 2020",
182         "en": "Special effort on education 2020"
183       },
184       "Beskrivning": {
185         "sv": "S\u00e4rskild satsning p\u00e5 sommarkurser och beh\u00f6righetsgivande utbildning 2020"
186       },
187       "Dolt": true,
188       "Giltighetsperiod": {
189         "Slutdatum": "2021-06-30",
190         "Startdatum": "2020-01-01"
191       },
192       "ID": "150163",
193       "Kod": "S20",
194       "LarosateID": -1
195     },
196     {
197       "Benamning": {
198         "sv": "S\u00e4rskild satsning p\u00e5 sommarkurser 2021",
199         "en": "Special effort on summer courses 2021"
200       },
201       "Beskrivning": {
202         "sv": "S\u00e4rskild satsning p\u00e5 sommarkurser 2021 (Regeringens proposition 2020/21:99)"
203       },
204       "Dolt": true,
205       "Giltighetsperiod": {

```

```

206         "Startdatum": "2021-01-01"
207     },
208     "ID": "151754",
209     "Kod": "S21",
210     "LarosateID": -1
211 },
212 {
213     "Benamning": {
214         "sv": "Sommarkurser inom l\u00e4raromr\u00e5det f\u00f6r examen, beh\u00f6righet och kompetensutveckling",
215         "en": "Sommer courses within the education area aiming to qualification and competence development"
216     },
217     "Beskrivning": {
218         "sv": "Regeringsbeslut U2019/04118/UH. Ers\u00e4tter uppdraget att anordna fler relevanta sommarkurser",
219     },
220     "Dolt": true,
221     "Giltighetsperiod": {
222         "Startdatum": "2020-01-01"
223     },
224     "ID": "154263",
225     "Kod": "SSL",
226     "LarosateID": -1
227 },
228 {
229     "Benamning": {
230         "sv": "Vetenskap utan gr\u00e4nser",
231         "en": "Science without borders"
232     },
233     "Beskrivning": {
234         "sv": "Se regleringsbrev"
235     },
236     "Dolt": true,
237     "Giltighetsperiod": {},
238     "ID": "102083",
239     "Kod": "SWB",
240     "LarosateID": -1
241 },
242 {
243     "Benamning": {
244         "sv": "S\u00e4rskild l\u00e4rarutbildning",
245         "en": "Special education for teachers in vocational subjects"
246     },
247     "Beskrivning": {
248         "sv": "SFS 2005:568 S\u00e4rskild utbildning av l\u00e4rare i yrkes\u00e4mnen"
249     },
250     "Dolt": true,
251     "Giltighetsperiod": {
252         "Slutdatum": "2010-01-01",
253         "Startdatum": "2005-08-01"
254     },
255     "ID": "102084",
256     "Kod": "S\u00c4L",

```

```

257     "LarosateID": -1
258 },
259 {
260     "Benamning": {
261         "sv": "Uppdragsutbildning",
262         "en": "Contract education"
263     },
264     "Beskrivning": {
265         "sv": "Anv\u00e4nds i Ladok f\u00f6r all uppdragsutbildning som inte s\u00e4rskiljs genom annan
266     },
267     "Dolt": true,
268     "Giltighetsperiod": {},
269     "ID": "102042",
270     "Kod": "U",
271     "LarosateID": -1
272 },
273 {
274     "Benamning": {
275         "sv": "Kompletterande utbildning f\u00f6r personer med utl\u00e4ndsk examen",
276         "en": "Complementary education for persons with foreign degrees"
277     },
278     "Beskrivning": {
279         "sv": "SFS 2008:1101 H\u00f6gskoleutbildning som kompletterar avslutad utl\u00e4ndsk utbildning
280     },
281     "Dolt": true,
282     "Giltighetsperiod": {
283         "Startdatum": "2009-01-15"
284     },
285     "ID": "106370",
286     "Kod": "UKU",
287     "LarosateID": -1
288 },
289 {
290     "Benamning": {
291         "sv": "Utlandsutbildade l\u00e4rares vidareutbildning",
292         "en": "Complementary education for foreign teachers"
293     },
294     "Beskrivning": {
295         "sv": "Best\u00e4lld utbildning fr\u00f6m Stockholms universitet (tidigare L\u00e4rarh\u00f6gsk
296     },
297     "Dolt": true,
298     "Giltighetsperiod": {},
299     "ID": "102081",
300     "Kod": "ULV",
301     "LarosateID": -1
302 },
303 {
304     "Benamning": {
305         "sv": "Uppdragsutbildning polis",
306         "en": "Contract education - Police education"
307     },

```

```

308     "Beskrivning": {},
309     "Dolt": true,
310     "Giltighetsperiod": {},
311     "ID": "143695",
312     "Kod": "UPU",
313     "LarosateID": -1
314 },
315 {
316     "Benamning": {
317         "sv": "Vidareutbildning av obeh\u00f6riga l\u00e4rare",
318         "en": "Complementary education for unqualified teachers"
319     },
320     "Beskrivning": {
321         "sv": "SFS 2011:689"
322     },
323     "Dolt": true,
324     "Giltighetsperiod": {},
325     "ID": "102082",
326     "Kod": "VAL",
327     "LarosateID": -1
328 },
329 {
330     "Benamning": {
331         "sv": "X Anv\u00e4nds ej",
332         "en": "X Anv\u00e4nds ej"
333     },
334     "Beskrivning": {},
335     "Dolt": true,
336     "Giltighetsperiod": {},
337     "ID": "153396",
338     "Kod": "XXX",
339     "LarosateID": -1
340 },
341 {
342     "Benamning": {
343         "sv": "Alumn, med examen fr KTH (ej HST-HPR)",
344         "en": "- No translation available -"
345     },
346     "Beskrivning": {},
347     "Dolt": true,
348     "Giltighetsperiod": {},
349     "ID": "131704",
350     "Kod": "ALU",
351     "LarosateID": 29
352 },
353 {
354     "Benamning": {
355         "sv": "Best\u00e4lld utbildning f\u00f6r externa doktorander (ej HST-HPR)",
356         "en": "Contracted course for external doctoral students (ej HST-HPR)"
357     },
358     "Beskrivning": {},

```

```

359     "Dolt": false,
360     "Giltighetsperiod": {
361         "Startdatum": "2020-08-01"
362     },
363     "ID": "150896",
364     "Kod": "BDR",
365     "LarosateID": 29
366 },
367 {
368     "Benamning": {
369         "sv": "zzzz Best\u00e4lld utbildning f\u00f6r externa doktorander",
370         "en": "zzzz Contracted course for external doctoral students"
371     },
372     "Beskrivning": {
373         "sv": "BDR ers\u00e4tter denna"
374     },
375     "Dolt": true,
376     "Giltighetsperiod": {
377         "Slutdatum": "2020-08-01",
378         "Startdatum": "2020-08-01"
379     },
380     "ID": "150875",
381     "Kod": "BESTUTBDOKT",
382     "LarosateID": 29
383 },
384 {
385     "Benamning": {
386         "sv": "Beijing Jiaotong Technical University",
387         "en": "-- No translation available --"
388     },
389     "Beskrivning": {},
390     "Dolt": true,
391     "Giltighetsperiod": {
392         "Slutdatum": "2018-06-19"
393     },
394     "ID": "131708",
395     "Kod": "BJT",
396     "LarosateID": 29
397 },
398 {
399     "Benamning": {
400         "sv": "Tekniskt bas\u00e5r NT-SVUX",
401         "en": "-- No translation available --"
402     },
403     "Beskrivning": {},
404     "Dolt": true,
405     "Giltighetsperiod": {
406         "Slutdatum": "2018-06-19"
407     },
408     "ID": "131712",
409     "Kod": "BNT",

```



```

410     "LarosateID": 29
411 },
412 {
413     "Benamning": {
414         "sv": "Best\u00e4lld utbildning Chalmers (ej HST-HPR)",
415         "en": "- No translation available -"
416     },
417     "Beskrivning": {},
418     "Dolt": true,
419     "Giltighetsperiod": {},
420     "ID": "131703",
421     "Kod": "CTH",
422     "LarosateID": 29
423 },
424 {
425     "Benamning": {
426         "sv": "EIT-InnoEnergy (vissa p\u00e5 distans \u00e5r 2, ej KTH)",
427         "en": "EIT-InnoEnergy"
428     },
429     "Beskrivning": {
430         "sv": "MJ2504 \u00e4r en obligatorisk kurs f\u00f6r \u00e5r 2 p\u00e5 programmet TMESM, student
431     },
432     "Dolt": false,
433     "Giltighetsperiod": {
434         "Startdatum": "2017-08-01"
435     },
436     "ID": "148345",
437     "Kod": "EIS",
438     "LarosateID": 29
439 },
440 {
441     "Benamning": {
442         "sv": "EJ HST/HPR",
443         "en": "EJ HST/HPR"
444     },
445     "Beskrivning": {
446         "sv": "F\u00f6r \u00e5taganden och kurstillf\u00e4llen som ej ska generera HST/HPR, tex f\u00f6r
447     },
448     "Dolt": false,
449     "Giltighetsperiod": {
450         "Startdatum": "2024-01-01"
451     },
452     "ID": "159831",
453     "Kod": "EJH",
454     "LarosateID": 29
455 },
456 {
457     "Benamning": {
458         "sv": "Erasmus M Utresa KTH koord (ej HST-HPR)",
459         "en": "- No translation available -"
460     },

```

```

461     "Beskrivning": {},
462     "Dolt": true,
463     "Giltighetsperiod": {},
464     "ID": "131709",
465     "Kod": "EMK",
466     "LarosateID": 29
467 },
468 {
469     "Benamning": {
470         "sv": "Examensarb. utomlands (ej HST-HPR)",
471         "en": "- No translation available -"
472     },
473     "Beskrivning": {},
474     "Dolt": false,
475     "Giltighetsperiod": {},
476     "ID": "131707",
477     "Kod": "EXA",
478     "LarosateID": 29
479 },
480 {
481     "Benamning": {
482         "sv": "\u00d6verbryggande kurs",
483         "en": "- No translation available -"
484     },
485     "Beskrivning": {},
486     "Dolt": true,
487     "Giltighetsperiod": {
488         "Slutdatum": "2018-06-19"
489     },
490     "ID": "131705",
491     "Kod": "FB",
492     "LarosateID": 29
493 },
494 {
495     "Benamning": {
496         "sv": "Fortbildningskurser f\u00f6r gymnasiet\u00e4rare",
497         "en": "- No translation available -"
498     },
499     "Beskrivning": {},
500     "Dolt": true,
501     "Giltighetsperiod": {
502         "Slutdatum": "2018-06-19"
503     },
504     "ID": "131710",
505     "Kod": "FBL",
506     "LarosateID": 29
507 },
508 {
509     "Benamning": {
510         "sv": "KI-student, deltar i FOV-kurs",
511         "en": "- No translation available -"

```

```

512     },
513     "Beskrivning": {},
514     "Dolt": true,
515     "Giltighetsperiod": {
516         "Slutdatum": "2018-06-19"
517     },
518     "ID": "131706",
519     "Kod": "FKI",
520     "LarosateID": 29
521 },
522 {
523     "Benamning": {
524         "sv": "\u00d6verbryggande n\u00e4tkurs",
525         "en": "- No translation available -"
526     },
527     "Beskrivning": {},
528     "Dolt": true,
529     "Giltighetsperiod": {
530         "Slutdatum": "2018-06-19"
531     },
532     "ID": "131711",
533     "Kod": "FN\u00c4",
534     "LarosateID": 29
535 },
536 {
537     "Benamning": {
538         "sv": "Forsk.stud.kurser utb. niv\u00e5 1 och 2",
539         "en": "- No translation available -"
540     },
541     "Beskrivning": {},
542     "Dolt": false,
543     "Giltighetsperiod": {},
544     "ID": "131716",
545     "Kod": "FOA",
546     "LarosateID": 29
547 },
548 {
549     "Benamning": {
550         "sv": "Forskarkurs (ej HST-HPR)",
551         "en": "Phd course (ej HST-HPR)"
552     },
553     "Beskrivning": {},
554     "Dolt": false,
555     "Giltighetsperiod": {},
556     "ID": "131713",
557     "Kod": "FOR",
558     "LarosateID": 29
559 },
560 {
561     "Benamning": {
562         "sv": "Fortbildning och vidareutbildning",

```

```

563     "en": "- No translation available -"
564 },
565     "Beskrivning": {},
566     "Dolt": true,
567     "Giltighetsperiod": {},
568     "ID": "131717",
569     "Kod": "FOV",
570     "LarosateID": 29
571 },
572 {
573     "Benamning": {
574         "sv": "F\u00e4ltstudie i Palestina (ABE-skolan, V12)",
575         "en": "- No translation available -"
576     },
577     "Beskrivning": {},
578     "Dolt": true,
579     "Giltighetsperiod": {
580         "Slutdatum": "2018-06-19"
581     },
582     "ID": "131714",
583     "Kod": "FPA",
584     "LarosateID": 29
585 },
586 {
587     "Benamning": {
588         "sv": "F\u00f6rberedandekurs - f\u00f6r SFINX studenter",
589         "en": "- No translation available -"
590     },
591     "Beskrivning": {},
592     "Dolt": true,
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1287     "Benamning": {
1288         "sv": "Kurs ers\u00e4ttat en avvecklad kurs (EJ HST)",
1289         "en": "Kurs ers\u00e4ttat en avvecklad kurs (EJ HST)"
1290     },
1291     "Beskrivning": {
1292         "sv": "Fin.form anv\u00e4nds f\u00f6r den ers\u00e4ttande kursens kurstillf\u00e4llen, d\u00e4r"
1293     },
1294     "Dolt": false,
1295     "Giltighetsperiod": {
1296         "Startdatum": "2021-07-01"
1297     },
1298     "ID": "152681",
1299     "Kod": "XER",
1300     "LarosateID": 29
1301 },
1302 {
1303     "Benamning": {
1304         "sv": "Examensarbete frist\u00e5ende kurs",
1305         "en": "-- No translation available --"
1306     },
1307     "Beskrivning": {},
1308     "Dolt": true,
1309     "Giltighetsperiod": {},
1310     "ID": "131766",
1311     "Kod": "XEX",
1312     "LarosateID": 29
1313 },
1314 {
1315     "Benamning": {
1316         "sv": "Ex.arb 12 p forts\u00e4ttat till 20 p",
1317         "en": "-- No translation available --"
1318     },
1319     "Beskrivning": {},
1320     "Dolt": true,
1321     "Giltighetsperiod": {
1322         "Slutdatum": "2018-06-19"
1323     },
1324     "ID": "131764",
1325     "Kod": "XII",
1326     "LarosateID": 29
1327 },

```

```

1328     {
1329         "Benamning": {
1330             "sv": "\u00d6verbryggande kurs (ej HST-HPR)",
1331             "en": "- No translation available -"
1332         },
1333         "Beskrivning": {},
1334         "Dolt": true,
1335         "Giltighetsperiod": {},
1336         "ID": "131765",
1337         "Kod": "\u00d6B",
1338         "LarosateID": 29
1339     },
1340     {
1341         "Benamning": {
1342             "sv": "\u00d6verbryggande n\u00e4tkurs (ej HST-HPR)",
1343             "en": "- No translation available -"
1344         },
1345         "Beskrivning": {},
1346         "Dolt": true,
1347         "Giltighetsperiod": {},
1348         "ID": "131769",
1349         "Kod": "\u00d6N\u00c4",
1350         "LarosateID": 29
1351     },
1352     {
1353         "Benamning": {
1354             "sv": "F\u00f6rberedandekurs SFINX stud.(ej HST-HPR)",
1355             "en": "- No translation available -"
1356         },
1357         "Beskrivning": {},
1358         "Dolt": true,
1359         "Giltighetsperiod": {},
1360         "ID": "131770",
1361         "Kod": "\u00d6SF",
1362         "LarosateID": 29
1363     }
1364 ]
1365 }

```

20.17 utbildningsomrade_JSON

```

1132 <LadokSession data methods 126b>+=
    # added by GQMJr
    def utbildningsomrade_JSON(self):
        """
        Returns subject areas.
        """
        r = self.session.get(
            url=self.base_gui_proxy_url +
              '/kataloginformation/internal/grunddata/utbildningsomrade',

```

```
headers=self.headers).json()
return r
```

Let's add a test. This should return a dictionary.

```
1133 <test functions 126a>+=
def test_utbildningsomrade_JSON():
    r = ladok.utbildningsomrade_JSON()
    assert type(r) == dict
```

This code is used in chunk 121.

The output looks like this:

```
1 {
2   "Utbildningsomrade": [
3     {
4       "Benamning": {
5         "sv": "Designomr\u00e5det",
6         "en": "Design"
7       },
8       "Beskrivning": {
9         "sv": "Inf\u00f6rdes fr\u00e5n budget\u00e5ret 1994/95. Tidigare fanns bara ett konstn\u00e4rli
10      },
11      "Dolt": false,
12      "Giltighetsperiod": {
13        "Startdatum": "1994-07-01"
14      },
15      "ID": "2",
16      "Kod": "DE",
17      "LarosateID": -1
18    },
19    {
20      "Benamning": {
21        "sv": "Operaomr\u00e5det",
22        "en": "Opera"
23      },
24      "Beskrivning": {
25        "sv": "Inf\u00f6rdes fr\u00e5n budget\u00e5ret 1994/95. Tidigare fanns bara ett konstn\u00e4rli
26      },
27      "Dolt": true,
28      "Giltighetsperiod": {
29        "Startdatum": "1994-07-01"
30      },
31      "ID": "15",
32      "Kod": "OP",
33      "LarosateID": -1
34    },
35    {
36      "Benamning": {
37        "sv": "Teateromr\u00e5det",
38        "en": "Theatre"
39      },
40      "Beskrivning": {
```

```

41     "sv": "Inf\u00f6rdes fr\u00e5n budget\u00e5ret 1994/95. Tidigare fanns bara ett konstn\u00e4rli
42 },
43 "Dolt": true,
44 "Giltighetsperiod": {
45     "Startdatum": "1994-07-01"
46 },
47 "ID": "18",
48 "Kod": "TA",
49 "LarosateID": -1
50 },
51 {
52     "Benamning": {
53         "sv": "Teologiska omr\u00e5det",
54         "en": "Theology"
55     },
56     "Beskrivning": {},
57     "Dolt": true,
58     "Giltighetsperiod": {
59         "Startdatum": "1993-07-01"
60     },
61     "ID": "20",
62     "Kod": "TL",
63     "LarosateID": -1
64 },
65 {
66     "Benamning": {
67         "sv": "V\u00e4rdomr\u00e5det",
68         "en": "Health care"
69     },
70     "Beskrivning": {},
71     "Dolt": true,
72     "Giltighetsperiod": {
73         "Startdatum": "1993-07-01"
74     },
75     "ID": "22",
76     "Kod": "V\u00c5",
77     "LarosateID": -1
78 },
79 {
80     "Benamning": {
81         "sv": "Dansomr\u00e5det",
82         "en": "Dance"
83     },
84     "Beskrivning": {
85         "sv": "Inf\u00f6rdes fr\u00e5n budget\u00e5ret 1994/95. Tidigare fanns bara ett konstn\u00e4rli
86     },
87     "Dolt": true,
88     "Giltighetsperiod": {
89         "Startdatum": "1994-07-01"
90     },
91     "ID": "1",

```

```

92     "Kod": "DA",
93     "LarosateID": -1
94 },
95 {
96     "Benamning": {
97         "sv": "Farmaceutiska omr\u00e5det",
98         "en": "Pharmacy"
99     },
100    "Beskrivning": {},
101    "Dolt": true,
102    "Giltighetsperiod": {
103        "Startdatum": "1993-07-01"
104    },
105    "ID": "3",
106    "Kod": "FA",
107    "LarosateID": -1
108 },
109 {
110     "Benamning": {
111         "sv": "Humanistiska omr\u00e5det",
112         "en": "Humanities"
113     },
114     "Beskrivning": {},
115     "Dolt": false,
116     "Giltighetsperiod": {
117         "Startdatum": "1993-07-01"
118     },
119     "ID": "4",
120     "Kod": "HU",
121     "LarosateID": -1
122 },
123 {
124     "Benamning": {
125         "sv": "Idrottsliga omr\u00e5det",
126         "en": "Sports"
127     },
128     "Beskrivning": {},
129     "Dolt": true,
130     "Giltighetsperiod": {
131         "Startdatum": "1993-07-01"
132     },
133     "ID": "5",
134     "Kod": "ID",
135     "LarosateID": -1
136 },
137 {
138     "Benamning": {
139         "sv": "Juridiska omr\u00e5det",
140         "en": "Law"
141     },
142     "Beskrivning": {},

```

```

143     "Dolt": false,
144     "Giltighetsperiod": {
145         "Startdatum": "1993-07-01"
146     },
147     "ID": "6",
148     "Kod": "JU",
149     "LarosateID": -1
150 },
151 {
152     "Benamning": {
153         "sv": "Konstomr\u00e5det",
154         "en": "Fine arts"
155     },
156     "Beskrivning": {
157         "sv": "Inf\u00f6rdes fr\u00e5n budget\u00e5ret 1994/95. Tidigare fanns bara ett konstn\u00e4rli
158     },
159     "Dolt": true,
160     "Giltighetsperiod": {
161         "Startdatum": "1994-07-01"
162     },
163     "ID": "7",
164     "Kod": "KO",
165     "LarosateID": -1
166 },
167 {
168     "Benamning": {
169         "sv": "Undervisningsomr\u00e5det",
170         "en": "Education"
171     },
172     "Beskrivning": {
173         "sv": "Avser utbildning inom det allm\u00e4nna utbildningsomr\u00e5det och den utbildningsveten
174     },
175     "Dolt": false,
176     "Giltighetsperiod": {
177         "Startdatum": "1993-07-01"
178     },
179     "ID": "9",
180     "Kod": "LU",
181     "LarosateID": -1
182 },
183 {
184     "Benamning": {
185         "sv": "Medicinska omr\u00e5det",
186         "en": "Medicine"
187     },
188     "Beskrivning": {},
189     "Dolt": false,
190     "Giltighetsperiod": {
191         "Startdatum": "1993-07-01"
192     },
193     "ID": "10",

```

```

194     "Kod": "ME",
195     "LarosateID": -1
196 },
197 {
198     "Benamning": {
199         "sv": "Mediaomr\u00e5det",
200         "en": "Media"
201     },
202     "Beskrivning": {
203         "sv": "Inf\u00f6rdes fr\u00e5n budget\u00e5ret 1994/95. Tidigare fanns bara ett konstn\u00e4rli
204     },
205     "Dolt": false,
206     "Giltighetsperiod": {
207         "Startdatum": "1994-07-01"
208     },
209     "ID": "11",
210     "Kod": "MM",
211     "LarosateID": -1
212 },
213 {
214     "Benamning": {
215         "sv": "Musikomr\u00e5det",
216         "en": "Music"
217     },
218     "Beskrivning": {
219         "sv": "Inf\u00f6rdes fr\u00e5n budget\u00e5ret 1994/95. Tidigare fanns bara ett konstn\u00e4rli
220     },
221     "Dolt": false,
222     "Giltighetsperiod": {
223         "Startdatum": "1994-07-01"
224     },
225     "ID": "12",
226     "Kod": "MU",
227     "LarosateID": -1
228 },
229 {
230     "Benamning": {
231         "sv": "Naturvetenskapliga omr\u00e5det",
232         "en": "Natural sciences"
233     },
234     "Beskrivning": {},
235     "Dolt": false,
236     "Giltighetsperiod": {
237         "Startdatum": "1993-07-01"
238     },
239     "ID": "13",
240     "Kod": "NA",
241     "LarosateID": -1
242 },
243 {
244     "Benamning": {

```



```

245     "sv": "Odontologiska omr\u00e5det",
246     "en": "Dentistry"
247 },
248 "Beskrivning": {},
249 "Dolt": true,
250 "Giltighetsperiod": {
251     "Startdatum": "1993-07-01"
252 },
253 "ID": "14",
254 "Kod": "OD",
255 "LarosateID": -1
256 },
257 {
258     "Benamning": {
259         "sv": "Samh\u00e4llsvetenskapliga omr\u00e5det",
260         "en": "Social sciences"
261     },
262     "Beskrivning": {},
263     "Dolt": false,
264     "Giltighetsperiod": {
265         "Startdatum": "1993-07-01"
266     },
267     "ID": "16",
268     "Kod": "SA",
269     "LarosateID": -1
270 },
271 {
272     "Benamning": {
273         "sv": "Tekniska omr\u00e5det",
274         "en": "Technology"
275     },
276     "Beskrivning": {},
277     "Dolt": false,
278     "Giltighetsperiod": {
279         "Startdatum": "1993-07-01"
280     },
281     "ID": "19",
282     "Kod": "TE",
283     "LarosateID": -1
284 },
285 {
286     "Benamning": {
287         "sv": "Verksamhetsf\u00f6rlagd utbildning",
288         "en": "Placement"
289     },
290     "Beskrivning": {
291         "sv": "Avser verksamhetsf\u00f6rlagd utbildning inom l\u00e4rar- och f\u00f6rskoll\u00e4rart\u00f6r",
292     },
293     "Dolt": false,
294     "Giltighetsperiod": {
295         "Startdatum": "2013-01-01"

```

```

296     },
297     "ID": "25",
298     "Kod": "VU",
299     "LarosateID": -1
300 },
301 {
302     "Benamning": {
303         "sv": "Information saknas",
304         "en": "Information missing"
305     },
306     "Beskrivning": {},
307     "Dolt": true,
308     "Giltighetsperiod": {},
309     "ID": "23",
310     "Kod": "XX",
311     "LarosateID": -1
312 },
313 {
314     "Benamning": {
315         "sv": "\u00d6vriga omr\u00e5den",
316         "en": "Other fields"
317     },
318     "Beskrivning": {
319         "sv": "Avser journalist- och bibliotekarieutbildningar samt praktiska och estetiska kurser inom
320     },
321     "Dolt": false,
322     "Giltighetsperiod": {
323         "Startdatum": "1993-07-01"
324     },
325     "ID": "24",
326     "Kod": "\u00d6V",
327     "LarosateID": -1
328 }
329 ]
330 }

```

20.18 kravpatidigarestudier_JSON

```

1139 <LadokSession data methods 126b>+=
# added by GQMJr
def kravpatidigarestudier_JSON(self):
    """
    Returns requirements for earlier studies.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/kravpatidigarestudier',
        headers=self.headers).json()
    return r

```

Let's add a test. This should return a dictionary.

```
1140 <test functions 126a>+=
def test_kravpatidigarestudier_JSON():
    r = ladok.kravpatidigarestudier_JSON()
    assert type(r) == dict
```

This code is used in chunk 121.

The output looks like this:

```
1 {
2   "KravPaTidigareStudier": [
3     {
4       "Benamning": {
5         "sv": "Tidigare h\u00f6gskolestudier kr\u00e4vs",
6         "en": "University studies required"
7       },
8       "Beskrivning": {},
9       "Dolt": false,
10      "Emilvarde": "uh",
11      "Giltighetsperiod": {},
12      "ID": "1",
13      "Kod": "UH",
14      "LarosateID": -1
15    },
16    {
17      "Benamning": {
18        "sv": "Inga tidigare h\u00f6gskolestudier kr\u00e4vs",
19        "en": "Upper secondary or equivalent"
20      },
21      "Beskrivning": {},
22      "Dolt": false,
23      "Emilvarde": "grundläggande",
24      "Giltighetsperiod": {},
25      "ID": "2",
26      "Kod": "GR",
27      "LarosateID": -1
28    },
29    {
30      "Benamning": {
31        "sv": "Ingen grundl\u00e4ggande beh\u00f6righet kr\u00e4vs",
32        "en": "No general entry requirements needed"
33      },
34      "Beskrivning": {},
35      "Dolt": false,
36      "Emilvarde": "inga",
37      "Giltighetsperiod": {},
38      "ID": "3",
39      "Kod": "IN",
40      "LarosateID": -1
41    }
42  ]
43 }
```

20.19 studieordning_JSON

1141a `<LadokSession data methods 126b>+=`

```
# added by GQMJr
def studieordning_JSON(self):
    """
    Returns study regulations.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/studieordning',
        headers=self.headers).json()
    return r
```

Let's add a test. This should return a dictionary.

1141b `<test functions 126a>+=`

```
def test_studieordning_JSON():
    r = ladok.studieordning_JSON()
    assert type(r) == dict
```

This code is used in chunk 121.

The output looks like this:

```
1 {
2   "Studieordning": [
3     {
4       "Benamning": {
5         "sv": "H\u00f6gskoleutbildning, 1993 \u00e5rs studieordning",
6         "en": "Higher education, study regulation of 1993"
7       },
8       "Beskrivning": {
9         "sv": "Avser i Ladok 1993 \u00e5rs studieordning inklusive dess f\u00f6reg\u00e5ngare"
10      },
11      "Dolt": false,
12      "EnhetID": 9,
13      "Giltighetsperiod": {},
14      "ID": "2",
15      "Kod": "H\u00d6693",
16      "LarosateID": -1,
17      "UtbildningsformID": 1
18    },
19    {
20      "Benamning": {
21        "sv": "H\u00f6gskoleutbildning, 2007 \u00e5rs studieordning",
22        "en": "Higher education, study regulation of 2007"
23      },
24      "Beskrivning": {},
25      "Dolt": false,
26      "EnhetID": 2,
27      "Giltighetsperiod": {
28        "Startdatum": "2007-07-01"
29      },
30    }
31  ]
32 }
```

```

30     "ID": "1",
31     "Kod": "H\u00d607",
32     "LarosateID": -1,
33     "UtbildningsformID": 1
34 },
35 {
36     "Benamning": {
37         "sv": "Beh\u00f6righetsgivande f\u00f6rutbildning (timmar)",
38         "en": "Access education (hours)"
39     },
40     "Beskrivning": {},
41     "Dolt": false,
42     "EnhetID": 5,
43     "Giltighetsperiod": {},
44     "ID": "12",
45     "Kod": "\u00d6VBT",
46     "LarosateID": -1,
47     "UtbildningsformID": 100970
48 },
49 {
50     "Benamning": {
51         "sv": "Beh\u00f6righetsgivande f\u00f6rutbildning (po\u00e4ng)",
52         "en": "Access education (fup)"
53     },
54     "Beskrivning": {
55         "sv": "Utbildning enligt f\u00f6rordning (2018:1519) om beh\u00f6righetsgivande och h\u00f6gsko
56     },
57     "Dolt": false,
58     "EnhetID": 4,
59     "Giltighetsperiod": {},
60     "ID": "3",
61     "Kod": "F\u00d6P0",
62     "LarosateID": -1,
63     "UtbildningsformID": 2
64 },
65 {
66     "Benamning": {
67         "sv": "Beh\u00f6righetsgivande f\u00f6rutbildning (veckor)",
68         "en": "Access education (weeks)"
69     },
70     "Beskrivning": {
71         "sv": "Utbildning enligt f\u00f6rordning (2018:1519) om beh\u00f6righetsgivande och h\u00f6gsko
72     },
73     "Dolt": false,
74     "EnhetID": 1,
75     "Giltighetsperiod": {},
76     "ID": "4",
77     "Kod": "F\u00d6VE",
78     "LarosateID": -1,
79     "UtbildningsformID": 2
80 },

```

```

81  {
82    "Benamning": {
83      "sv": "H\u00f6gskoleintern utbildning (ORU)",
84      "en": "Internal education (ORU)"
85    },
86    "Beskrivning": {
87      "sv": "Intern utbildning vid \u00d6rebro universitet"
88    },
89    "Dolt": false,
90    "EnhetID": 6,
91    "Giltighetsperiod": {
92      "Slutdatum": "2007-06-30",
93      "Startdatum": "2004-01-01"
94    },
95    "ID": "15",
96    "Kod": "\u00d6VHI",
97    "LarosateID": -1,
98    "UtbildningsformID": 100970
99  },
100 {
101   "Benamning": {
102     "sv": "\u00c4ldre utbildning vid F\u00f6rsvarsh\u00f6gskolan",
103     "en": "Older defence education"
104   },
105   "Beskrivning": {
106     "sv": "Utbildning enligt f\u00f6rordningen (1996:1476) med instruktion f\u00f6r F\u00f6rsvarsh\u00f6gskolan"
107   },
108   "Dolt": false,
109   "EnhetID": 10,
110   "Giltighetsperiod": {
111     "Slutdatum": "2007-12-31"
112   },
113   "ID": "16",
114   "Kod": "\u00d6VFU",
115   "LarosateID": -1,
116   "UtbildningsformID": 100970
117 },
118 {
119   "Benamning": {
120     "sv": "Kvalificerad yrkesutbildning",
121     "en": "Post-secondary vocational education and training"
122   },
123   "Beskrivning": {
124     "sv": "Utbildning enligt f\u00f6rordningen (2001:1131) om kvalificerad yrkesutbildning (upph\u00f6r\n"
125   },
126   "Dolt": false,
127   "EnhetID": 7,
128   "Giltighetsperiod": {
129     "Slutdatum": "2013-12-31"
130   },
131   "ID": "13",

```

```

132     "Kod": "KY02",
133     "LarosateID": -1,
134     "UtbildningsformID": 100968
135 },
136 {
137     "Benamning": {
138         "sv": "Preparandutbildning",
139         "en": "Preparatory education"
140     },
141     "Beskrivning": {
142         "sv": "Utbildning enligt f\u00f6rordningen (1985:681) om preparandutbildning i svenska (upph\u00f6r\n1993-06-30)",
143     },
144     "Dolt": false,
145     "EnhetID": 6,
146     "Giltighetsperiod": {
147         "Slutdatum": "1993-06-30"
148     },
149     "ID": "14",
150     "Kod": "\u00d6VPR",
151     "LarosateID": -1,
152     "UtbildningsformID": 100970
153 },
154 {
155     "Benamning": {
156         "sv": "Yrkesh\u00f6gskoleutbildning",
157         "en": "Higher vocational education"
158     },
159     "Beskrivning": {
160         "sv": "Utbildning enligt f\u00f6rordning (2009:130) om yrkesh\u00f6gskolan"
161     },
162     "Dolt": false,
163     "EnhetID": 8,
164     "Giltighetsperiod": {
165         "Startdatum": "2009-07-01"
166     },
167     "ID": "5",
168     "Kod": "YH09",
169     "LarosateID": -1,
170     "UtbildningsformID": 4
171 },
172 {
173     "Benamning": {
174         "sv": "Uppdragsutbildning (h\u00f6gskolepo\u00e4ng)",
175         "en": "Contract education (credits)"
176     },
177     "Beskrivning": {},
178     "Dolt": false,
179     "EnhetID": 2,
180     "Giltighetsperiod": {
181         "Startdatum": "2007-07-01"
182     },

```

```
183     "ID": "17",
184     "Kod": "UPHP",
185     "LarosateID": -1,
186     "UtbildningsformID": 100928
187 },
188 {
189     "Benamning": {
190         "sv": "Uppdragsutbildning (veckor)",
191         "en": "Contract education (weeks)"
192     },
193     "Beskrivning": {},
194     "Dolt": false,
195     "EnhetID": 1,
196     "Giltighetsperiod": {},
197     "ID": "18",
198     "Kod": "UPVE",
199     "LarosateID": -1,
200     "UtbildningsformID": 100928
201 },
202 {
203     "Benamning": {
204         "sv": "Polisutbildning",
205         "en": "Police education"
206     },
207     "Beskrivning": {
208         "sv": "Polisutbildning som ej uppfyller alla kvalitetskrav f\u00f6r h\u00f6gskoleutbildning."
209     },
210     "Dolt": false,
211     "EnhetID": 2,
212     "Giltighetsperiod": {},
213     "ID": "109831",
214     "Kod": "PU99",
215     "LarosateID": -1,
216     "UtbildningsformID": 100969
217 },
218 {
219     "Benamning": {
220         "sv": "Polisutbildning, motsvarande h\u00f6gskoleutbildning",
221         "en": "Police education, equal to Higher education"
222     },
223     "Beskrivning": {
224         "sv": "Polisutbildning som uppfyller kvalitetskraven f\u00f6r h\u00f6gskoleutbildning"
225     },
226     "Dolt": false,
227     "EnhetID": 2,
228     "Giltighetsperiod": {
229         "Startdatum": "2018-07-01"
230     },
231     "ID": "135370",
232     "Kod": "PU18",
233     "LarosateID": -1,
```



```

234     "UtbildningsformID": 100969
235 },
236 {
237     "Benamning": {
238         "sv": "\u00d6-Fel",
239         "en": "\u00d6-Fel"
240     },
241     "Beskrivning": {},
242     "Dolt": false,
243     "EnhetID": 1,
244     "Giltighetsperiod": {
245         "Slutdatum": "1900-01-01"
246     },
247     "ID": "138710",
248     "Kod": "FEL",
249     "LarosateID": -1,
250     "UtbildningsformID": 100970
251 },
252 {
253     "Benamning": {
254         "sv": "Uppdragsutbildning (timmar)",
255         "en": "Contract education (hours)"
256     },
257     "Beskrivning": {},
258     "Dolt": false,
259     "EnhetID": 5,
260     "Giltighetsperiod": {
261         "Startdatum": "2019-01-01"
262     },
263     "ID": "147898",
264     "Kod": "UPTI",
265     "LarosateID": -1,
266     "UtbildningsformID": 100928
267 },
268 {
269     "Benamning": {
270         "sv": "Samverkansutbildning",
271         "en": "Collaborative education"
272     },
273     "Beskrivning": {
274         "sv": "Utbildning som bedrivs i samverkan mellan h\u00f6gskola och folkh\u00f6gskola."
275     },
276     "Dolt": false,
277     "EnhetID": 1,
278     "Giltighetsperiod": {},
279     "ID": "161480",
280     "Kod": "PISU",
281     "LarosateID": -1,
282     "UtbildningsformID": 161479
283 },
284 {

```

```

285     "Benamning": {
286         "sv": "Pastoralteologisk utbildning",
287         "en": "Pastoral education"
288     },
289     "Beskrivning": {},
290     "Dolt": false,
291     "EnhetID": 1,
292     "Giltighetsperiod": {},
293     "ID": "162110",
294     "Kod": "PIPT",
295     "LarosateID": -1,
296     "UtbildningsformID": 161479
297 },
298 {
299     "Benamning": {
300         "sv": "Uppdragsutbildning, \u00d6vrig utbildning (timmar)",
301         "en": "Contract education (hours)"
302     },
303     "Beskrivning": {},
304     "Dolt": false,
305     "EnhetID": 5,
306     "Giltighetsperiod": {
307         "Slutdatum": "2018-12-31"
308     },
309     "ID": "9",
310     "Kod": "\u00d6VUT",
311     "LarosateID": -1,
312     "UtbildningsformID": 100970
313 }
314 ]
315 }

```

20.20 enhet_JSON

```

1147a <LadokSession data methods 126b>+=
# added by GQMJr
def enhet_JSON(self):
    """
    Returns credit units.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url + '/kataloginformation/internal/grunddata/enhet',
        headers=self.headers).json()
    return r

```

Let's add a test. This should return a dictionary.

```

1147b <test functions 126a>+=
def test_enhet_JSON():
    r = ladok.enhet_JSON()
    assert type(r) == dict

```

This code is used in chunk 121.

The output looks like this:

```

1  {
2    "Enhet": [
3      {
4        "Benamning": {
5          "sv": "Po\u00e4ng (\u00d6vrig utbildning)",
6          "en": "Credit points"
7        },
8        "Beskrivning": {},
9        "Dolt": false,
10       "Giltighetsperiod": {
11         "Slutdatum": "2018-01-01"
12       },
13       "Helarsvarde": 40,
14       "ID": "6",
15       "Kod": "AUP",
16       "LarosateID": -1
17     },
18     {
19       "Benamning": {
20         "sv": "F\u00f6rutbildningspo\u00e4ng",
21         "en": "Pre-education credits"
22       },
23       "Beskrivning": {},
24       "Dolt": false,
25       "Giltighetsperiod": {},
26       "Helarsvarde": 60,
27       "ID": "4",
28       "Kod": "FUP",
29       "LarosateID": -1
30     },
31     {
32       "Benamning": {
33         "sv": "H\u00f6gskolepo\u00e4ng",
34         "en": "Credits"
35       },
36       "Beskrivning": {
37         "sv": "\u00d6versattes 2007-2010 med Higher education credits"
38       },
39       "Dolt": false,
40       "Giltighetsperiod": {
41         "Startdatum": "2007-07-01"
42       },
43       "Helarsvarde": 60,
44       "ID": "2",
45       "Kod": "HP",
46       "LarosateID": -1
47     },
48     {
49       "Benamning": {

```

```

50     "sv": "Konverterade h\u00f6gskolepo\u00e4ng",
51     "en": "Converted credits"
52 },
53 "Beskrivning": {
54     "sv": "Enheten po\u00e4ng konverterades till h\u00f6gskolepo\u00e4ng i Ladok f\u00f6r 1993 \u00f6r 2007",
55 },
56 "Dolt": false,
57 "Giltighetsperiod": {
58     "Slutdatum": "2007-06-30"
59 },
60 "Helarsvarde": 60,
61 "ID": "9",
62 "Kod": "HP-K",
63 "LarosateID": -1
64 },
65 {
66     "Benamning": {
67         "sv": "Interna po\u00e4ng",
68         "en": "Internal credits"
69     },
70     "Beskrivning": {
71         "sv": "Har enbart anv\u00e4nts av F\u00f6rsvarsh\u00f6gskolan"
72     },
73     "Dolt": false,
74     "Giltighetsperiod": {
75         "Slutdatum": "2016-07-01"
76     },
77     "Helarsvarde": 60,
78     "ID": "10",
79     "Kod": "IP",
80     "LarosateID": -1
81 },
82 {
83     "Benamning": {
84         "sv": "KY-po\u00e4ng",
85         "en": "KY credits"
86     },
87     "Beskrivning": {},
88     "Dolt": false,
89     "Giltighetsperiod": {
90         "Slutdatum": "2013-12-31",
91         "Startdatum": "2002-01-01"
92     },
93     "Helarsvarde": 40,
94     "ID": "7",
95     "Kod": "KYP",
96     "LarosateID": -1
97 },
98 {
99     "Benamning": {
100         "sv": "Timm\u00e5r",

```

```

101         "en": "Hours"
102     },
103     "Beskrivning": {},
104     "Dolt": false,
105     "Giltighetsperiod": {},
106     "Helarsvarde": 1600,
107     "ID": "5",
108     "Kod": "T",
109     "LarosateID": -1
110 },
111 {
112     "Benamning": {
113         "sv": "Veckor",
114         "en": "Weeks"
115     },
116     "Beskrivning": {},
117     "Dolt": false,
118     "Giltighetsperiod": {},
119     "Helarsvarde": 40,
120     "ID": "1",
121     "Kod": "V",
122     "LarosateID": -1
123 },
124 {
125     "Benamning": {
126         "sv": "Yrkesh\u00f6gskolepo\u00e4ng",
127         "en": "HVE credits"
128     },
129     "Beskrivning": {},
130     "Dolt": false,
131     "Giltighetsperiod": {
132         "Startdatum": "2009-07-01"
133     },
134     "Helarsvarde": 200,
135     "ID": "8",
136     "Kod": "YHP",
137     "LarosateID": -1
138 }
139 ]
140 }

```

20.21 studielokalisering_JSON

```

1150 <LadokSession data methods 126b>+=
    # added by GQMJr
    def studielokalisering_JSON(self):
        """
        Returns study locations.
        """
        r = self.session.get(

```

```

url=self.base_gui_proxy_url +
    '/kataloginformation/internal/grunddata/studielokalisering',
headers=self.headers).json()
return r

```

Let's add a test. This should return a dictionary.

```

1151 <test functions 126a>+=
def test_studielokalisering_JSON():
    r = ladok.studielokalisering_JSON()
    assert type(r) == dict

```

This code is used in chunk 121.

The output looks like this:

```

1  {
2  "Studielokalisering": [
3  {
4      "Benamning": {
5          "sv": "J\u00e4rf\u00e4lla",
6          "en": "J\u00e4rf\u00e4lla"
7      },
8      "Beskrivning": {},
9      "Dolt": true,
10     "Giltighetsperiod": {
11         "Slutdatum": "1996-06-30",
12         "Startdatum": "1994-08-01"
13     },
14     "ID": "131775",
15     "Kod": "0123",
16     "LarosateID": 29,
17     "OrtID": 5
18 },
19 {
20     "Benamning": {
21         "sv": "Huddinge",
22         "en": "Huddinge"
23     },
24     "Beskrivning": {},
25     "Dolt": true,
26     "Giltighetsperiod": {
27         "Slutdatum": "2019-01-14",
28         "Startdatum": "2002-01-01"
29     },
30     "ID": "131779",
31     "Kod": "0126",
32     "LarosateID": 29,
33     "OrtID": 109830
34 },
35 {
36     "Benamning": {
37         "sv": "Botkyrka",
38         "en": "Botkyrka"

```

```

39     },
40     "Beskrivning": {},
41     "Dolt": true,
42     "Giltighetsperiod": {
43         "Slutdatum": "1997-12-31",
44         "Startdatum": "1997-08-01"
45     },
46     "ID": "131772",
47     "Kod": "0127",
48     "LarosateID": 29,
49     "OrtID": 110990
50 },
51 {
52     "Benamning": {
53         "sv": "Haninge",
54         "en": "Haninge"
55     },
56     "Beskrivning": {},
57     "Dolt": true,
58     "Giltighetsperiod": {
59         "Slutdatum": "2016-06-30",
60         "Startdatum": "1994-08-01"
61     },
62     "ID": "131773",
63     "Kod": "0136",
64     "LarosateID": 29,
65     "OrtID": 110991
66 },
67 {
68     "Benamning": {
69         "sv": "S\u00f6dert\u00e4lje",
70         "en": "S\u00f6dert\u00e4lje"
71     },
72     "Beskrivning": {},
73     "Dolt": true,
74     "Giltighetsperiod": {
75         "Slutdatum": "2019-01-14",
76         "Startdatum": "1987-01-01"
77     },
78     "ID": "131771",
79     "Kod": "0181",
80     "LarosateID": 29,
81     "OrtID": 20
82 },
83 {
84     "Benamning": {
85         "sv": "Norrt\u00e4lje",
86         "en": "Norrt\u00e4lje"
87     },
88     "Beskrivning": {},
89     "Dolt": true,

```

```
90     "Giltighetsperiod": {
91         "Slutdatum": "2005-06-30",
92         "Startdatum": "1997-08-01"
93     },
94     "ID": "131776",
95     "Kod": "0188",
96     "LarosateID": 29,
97     "OrtID": 28
98 },
99 {
100     "Benamning": {
101         "sv": "Nyk\u00f6ping",
102         "en": "Nyk\u00f6ping"
103     },
104     "Beskrivning": {},
105     "Dolt": true,
106     "Giltighetsperiod": {
107         "Slutdatum": "2005-06-30",
108         "Startdatum": "2005-01-01"
109     },
110     "ID": "131777",
111     "Kod": "0480",
112     "LarosateID": 29,
113     "OrtID": 44
114 },
115 {
116     "Benamning": {
117         "sv": "Valdemarsvik",
118         "en": "Valdemarsvik"
119     },
120     "Beskrivning": {},
121     "Dolt": true,
122     "Giltighetsperiod": {
123         "Slutdatum": "1999-12-31",
124         "Startdatum": "1900-01-01"
125     },
126     "ID": "131780",
127     "Kod": "0563",
128     "LarosateID": 29,
129     "OrtID": 60
130 },
131 {
132     "Benamning": {
133         "sv": "Visby",
134         "en": "Visby"
135     },
136     "Beskrivning": {},
137     "Dolt": true,
138     "Giltighetsperiod": {
139         "Slutdatum": "2000-12-31",
140         "Startdatum": "1991-08-01"
```



```

141     },
142     "ID": "131781",
143     "Kod": "0980",
144     "LarosateID": 29,
145     "OrtID": 108
146 },
147 {
148     "Benamning": {
149         "sv": "\u00c4ngelholm",
150         "en": "\u00c4ngelholm"
151     },
152     "Beskrivning": {},
153     "Dolt": true,
154     "Giltighetsperiod": {
155         "Slutdatum": "1997-12-31",
156         "Startdatum": "1997-12-31"
157     },
158     "ID": "131782",
159     "Kod": "1292",
160     "LarosateID": 29,
161     "OrtID": 154
162 },
163 {
164     "Benamning": {
165         "sv": "\u00d6rebro",
166         "en": "\u00d6rebro"
167     },
168     "Beskrivning": {},
169     "Dolt": true,
170     "Giltighetsperiod": {
171         "Slutdatum": "1998-06-30",
172         "Startdatum": "1996-08-01"
173     },
174     "ID": "131786",
175     "Kod": "1880",
176     "LarosateID": 29,
177     "OrtID": 237
178 },
179 {
180     "Benamning": {
181         "sv": "V\u00e4ster\u00e5s",
182         "en": "V\u00e4ster\u00e5s"
183     },
184     "Beskrivning": {},
185     "Dolt": true,
186     "Giltighetsperiod": {
187         "Slutdatum": "1999-12-31",
188         "Startdatum": "1994-08-01"
189     },
190     "ID": "131783",
191     "Kod": "1980",

```

```

192     "LarosateID": 29,
193     "OrtID": 248
194 },
195 {
196     "Benamning": {
197         "sv": "Falun",
198         "en": "Falun"
199     },
200     "Beskrivning": {},
201     "Dolt": true,
202     "Giltighetsperiod": {
203         "Slutdatum": "1998-12-31",
204         "Startdatum": "1994-08-01"
205     },
206     "ID": "131787",
207     "Kod": "2080",
208     "LarosateID": 29,
209     "OrtID": 263
210 },
211 {
212     "Benamning": {
213         "sv": "G\u00e4vle",
214         "en": "G\u00e4vle"
215     },
216     "Beskrivning": {},
217     "Dolt": true,
218     "Giltighetsperiod": {
219         "Slutdatum": "1998-12-31",
220         "Startdatum": "1997-08-01"
221     },
222     "ID": "131784",
223     "Kod": "2180",
224     "LarosateID": 29,
225     "OrtID": 273
226 },
227 {
228     "Benamning": {
229         "sv": "AlbaNova",
230         "en": "AlbaNova"
231     },
232     "Beskrivning": {},
233     "Dolt": false,
234     "Giltighetsperiod": {
235         "Startdatum": "2018-06-20"
236     },
237     "ID": "135190",
238     "Kod": "ALBANOVA",
239     "LarosateID": 29,
240     "OrtID": 18
241 },
242 {

```

```
243     "Benamning": {
244       "sv": "\u00c5re",
245       "en": "\u00c5re"
246     },
247     "Beskrivning": {},
248     "Dolt": false,
249     "Giltighetsperiod": {
250       "Startdatum": "2024-01-13"
251     },
252     "ID": "157819",
253     "Kod": "ARE",
254     "LarosateID": 29,
255     "OrtID": 290
256   },
257   {
258     "Benamning": {
259       "sv": "KTH Flemingsberg",
260       "en": "KTH Flemingsberg"
261     },
262     "Beskrivning": {
263       "sv": "\"campus\" Flemingsberg"
264     },
265     "Dolt": false,
266     "Giltighetsperiod": {
267       "Startdatum": "2018-06-20"
268     },
269     "ID": "135198",
270     "Kod": "FLEMINGSB",
271     "LarosateID": 29,
272     "OrtID": 7
273   },
274   {
275     "Benamning": {
276       "sv": "G\u00e4llivare",
277       "en": "G\u00e4llivare"
278     },
279     "Beskrivning": {},
280     "Dolt": false,
281     "Giltighetsperiod": {
282       "Startdatum": "2024-01-13"
283     },
284     "ID": "157820",
285     "Kod": "GALLIVARE",
286     "LarosateID": 29,
287     "OrtID": 320
288   },
289   {
290     "Benamning": {
291       "sv": "KI Flemingsberg",
292       "en": "KI Flemingsberg"
293     },
```

```

294     "Beskrivning": {},
295     "Dolt": false,
296     "Giltighetsperiod": {
297         "Startdatum": "2018-06-20"
298     },
299     "ID": "135192",
300     "Kod": "KI_FLEMINGS",
301     "LarosateID": 29,
302     "OrtID": 7
303 },
304 {
305     "Benamning": {
306         "sv": "KI Solna",
307         "en": "KI Solna"
308     },
309     "Beskrivning": {},
310     "Dolt": false,
311     "Giltighetsperiod": {
312         "Startdatum": "2018-06-20"
313     },
314     "ID": "135193",
315     "Kod": "KI_SOLNA",
316     "LarosateID": 29,
317     "OrtID": 25
318 },
319 {
320     "Benamning": {
321         "sv": "Kiruna",
322         "en": "Kiruna"
323     },
324     "Beskrivning": {},
325     "Dolt": false,
326     "Giltighetsperiod": {
327         "Startdatum": "2024-01-13"
328     },
329     "ID": "157822",
330     "Kod": "KIRUNA",
331     "LarosateID": 29,
332     "OrtID": 326
333 },
334 {
335     "Benamning": {
336         "sv": "KTH Kista",
337         "en": "KTH Kista"
338     },
339     "Beskrivning": {
340         "sv": "\"Campus\" Kista"
341     },
342     "Dolt": false,
343     "Giltighetsperiod": {
344         "Startdatum": "2018-06-20"

```

```
345     },
346     "ID": "135194",
347     "Kod": "KISTA",
348     "LarosateID": 29,
349     "OrtID": 18
350   },
351   {
352     "Benamning": {
353       "sv": "Nyk\u00f6ping",
354       "en": "Nyk\u00f6ping"
355     },
356     "Beskrivning": {},
357     "Dolt": false,
358     "Giltighetsperiod": {
359       "Startdatum": "2024-01-13"
360     },
361     "ID": "157827",
362     "Kod": "NYKOPING",
363     "LarosateID": 29,
364     "OrtID": 44
365   },
366   {
367     "Benamning": {
368       "sv": "Nyn\u00e4shamn",
369       "en": "Nyn\u00e4shamn"
370     },
371     "Beskrivning": {
372       "sv": "Fr\u00e5n HT26, L\u00e4rcentrum Tekniskt bas\u00e4r"
373     },
374     "Dolt": false,
375     "Giltighetsperiod": {
376       "Startdatum": "2024-01-13"
377     },
378     "ID": "157818",
379     "Kod": "NYNASHAMN",
380     "LarosateID": 29,
381     "OrtID": 32
382   },
383   {
384     "Benamning": {
385       "sv": "\u00d6rns\u00f6lde",
386       "en": "\u00d6rns\u00f6lde"
387     },
388     "Beskrivning": {},
389     "Dolt": false,
390     "Giltighetsperiod": {
391       "Startdatum": "2024-01-13"
392     },
393     "ID": "157828",
394     "Kod": "ORNSKOLDSVI",
395     "LarosateID": 29,
```

```

396     "OrtID": 284
397   },
398   {
399     "Benamning": {
400       "sv": "Oskarshamn",
401       "en": "Oskarshamn"
402     },
403     "Beskrivning": {},
404     "Dolt": false,
405     "Giltighetsperiod": {
406       "Startdatum": "2024-01-13"
407     },
408     "ID": "157826",
409     "Kod": "OSKARSHAMN",
410     "LarosateID": 29,
411     "OrtID": 103
412   },
413   {
414     "Benamning": {
415       "sv": "Stockholms universitet",
416       "en": "Stockholm University"
417     },
418     "Beskrivning": {},
419     "Dolt": false,
420     "Giltighetsperiod": {
421       "Startdatum": "2018-06-20"
422     },
423     "ID": "135197",
424     "Kod": "SU",
425     "LarosateID": 29,
426     "OrtID": 18
427   },
428   {
429     "Benamning": {
430       "sv": "S\u00f6dert\u00e4lje",
431       "en": "S\u00f6dert\u00e4lje"
432     },
433     "Beskrivning": {
434       "sv": "L\u00e4rcentrum, Teknisk bas\u00e5r"
435     },
436     "Dolt": false,
437     "Giltighetsperiod": {
438       "Startdatum": "2025-02-18"
439     },
440     "ID": "161537",
441     "Kod": "TALJE",
442     "LarosateID": 29,
443     "OrtID": 20
444   },
445   {
446     "Benamning": {

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447     "sv": "Sundsvall",
448     "en": "Sundsvall"
449 },
450 "Beskrivning": {},
451 "Dolt": true,
452 "Giltighetsperiod": {
453     "Slutdatum": "1997-12-31",
454     "Startdatum": "1996-08-01"
455 },
456 "ID": "131785",
457 "Kod": "2281",
458 "LarosateID": 29,
459 "OrtID": 281
460 },
461 {
462     "Benamning": {
463         "sv": "\u00d6rns\u00f6ldsvik",
464         "en": "\u00d6rns\u00f6ldsvik"
465     },
466     "Beskrivning": {},
467     "Dolt": true,
468     "Giltighetsperiod": {
469         "Slutdatum": "1997-12-31",
470         "Startdatum": "1997-01-01"
471     },
472     "ID": "131788",
473     "Kod": "2284",
474     "LarosateID": 29,
475     "OrtID": 284
476 },
477 {
478     "Benamning": {
479         "sv": "Ludvika",
480         "en": "Ludvika"
481     },
482     "Beskrivning": {},
483     "Dolt": false,
484     "Giltighetsperiod": {
485         "Startdatum": "2024-01-13"
486     },
487     "ID": "157824",
488     "Kod": "LUDVIKA",
489     "LarosateID": 29,
490     "OrtID": 267
491 },
492 {
493     "Benamning": {
494         "sv": "Norrt\u00e4lje",
495         "en": "Norrt\u00e4lje"
496     },
497     "Beskrivning": {

```

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498     "sv": "L\u00e4rcentrum, Tekniskt bas\u00e5r"
499 },
500 "Dolt": false,
501 "Giltighetsperiod": {
502     "Startdatum": "2025-02-18"
503 },
504 "ID": "161536",
505 "Kod": "NORRTAN",
506 "LarosateID": 29,
507 "OrtID": 28
508 },
509 {
510     "Benamning": {
511         "sv": "Pajala",
512         "en": "Pajala"
513     },
514     "Beskrivning": {},
515     "Dolt": false,
516     "Giltighetsperiod": {
517         "Startdatum": "2024-01-13"
518     },
519     "ID": "157823",
520     "Kod": "PAJALA",
521     "LarosateID": 29,
522     "OrtID": 319
523 },
524 {
525     "Benamning": {
526         "sv": "KTH Solna",
527         "en": "KTH Solna"
528     },
529     "Beskrivning": {
530         "sv": "SciLife Labs, Solna",
531         "en": "SciLife Labs, Solna"
532     },
533     "Dolt": false,
534     "Giltighetsperiod": {
535         "Startdatum": "2018-06-18"
536     },
537     "ID": "135610",
538     "Kod": "SCILIFELAB",
539     "LarosateID": 29,
540     "OrtID": 25
541 },
542 {
543     "Benamning": {
544         "sv": "T\u00e4by",
545         "en": "T\u00e4by"
546     },
547     "Beskrivning": {},
548     "Dolt": true,

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549     "Giltighetsperiod": {
550         "Slutdatum": "1999-12-31",
551         "Startdatum": "1900-01-01"
552     },
553     "ID": "131774",
554     "Kod": "0160",
555     "LarosateID": 29,
556     "OrtID": 14
557 },
558 {
559     "Benamning": {
560         "sv": "Stockholm",
561         "en": "Stockholm"
562     },
563     "Beskrivning": {},
564     "Dolt": true,
565     "Giltighetsperiod": {
566         "Slutdatum": "2019-01-14",
567         "Startdatum": "1917-10-19"
568     },
569     "ID": "131778",
570     "Kod": "0180",
571     "LarosateID": 29,
572     "OrtID": 18
573 },
574 {
575     "Benamning": {
576         "sv": "Handelsh\u00f6gskolan",
577         "en": "Stockholm School of Economics"
578     },
579     "Beskrivning": {},
580     "Dolt": false,
581     "Giltighetsperiod": {
582         "Startdatum": "2018-06-20"
583     },
584     "ID": "135191",
585     "Kod": "HANDELS",
586     "LarosateID": 29,
587     "OrtID": 18
588 },
589 {
590     "Benamning": {
591         "sv": "Jokkmokk",
592         "en": "Jokkmokk"
593     },
594     "Beskrivning": {},
595     "Dolt": false,
596     "Giltighetsperiod": {
597         "Startdatum": "2024-01-13"
598     },
599     "ID": "157821",

```

```
600     "Kod": "JOKKMOKK",
601     "LarosateID": 29,
602     "OrtID": 315
603 },
604 {
605     "Benamning": {
606         "sv": "Konstfack",
607         "en": "University of Arts, Crafts and Design"
608     },
609     "Beskrivning": {},
610     "Dolt": false,
611     "Giltighetsperiod": {
612         "Startdatum": "2018-08-27"
613     },
614     "ID": "147750",
615     "Kod": "KONSTFACK",
616     "LarosateID": 29,
617     "OrtID": 18
618 },
619 {
620     "Benamning": {
621         "sv": "KTH Campus",
622         "en": "KTH Campus"
623     },
624     "Beskrivning": {
625         "sv": "\"Campus\" Valhallav\u00e4gen"
626     },
627     "Dolt": false,
628     "Giltighetsperiod": {
629         "Startdatum": "2018-06-20"
630     },
631     "ID": "135195",
632     "Kod": "KTHCAMPUS",
633     "LarosateID": 29,
634     "OrtID": 18
635 },
636 {
637     "Benamning": {
638         "sv": "Smedjebacken",
639         "en": "Smedjebacken"
640     },
641     "Beskrivning": {},
642     "Dolt": false,
643     "Giltighetsperiod": {
644         "Startdatum": "2024-01-13"
645     },
646     "ID": "157825",
647     "Kod": "SMEDJEBACK",
648     "LarosateID": 29,
649     "OrtID": 260
650 },
```

```

651     {
652         "Benamning": {
653             "sv": "KTH S\u00f6dert\u00e4lje",
654             "en": "KTH S\u00f6dert\u00e4lje"
655         },
656         "Beskrivning": {
657             "sv": "\"Campus\" S\u00f6dert\u00e4lje"
658         },
659         "Dolt": false,
660         "Giltighetsperiod": {
661             "Startdatum": "2018-06-20"
662         },
663         "ID": "135196",
664         "Kod": "SODERTALJE",
665         "LarosateID": 29,
666         "OrtID": 20
667     }
668 ]
669 }

```

20.22 antagningsomgang_JSON

1164a *<LadokSession data methods 126b>+≡*

```

# added by GQMJr
def antagningsomgang_JSON(self):
    """
    Returns the admission round.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/antagningsomgang',
        headers=self.headers).json()
    return r

```

Let's add a test. This should return a dictionary.

1164b *<test functions 126a>+≡*

```

def test_antagningsomgang_JSON():
    r = ladok.antagningsomgang_JSON()
    assert type(r) == dict

```

This code is used in chunk 121.

The output looks like this:

```

1  {
2      "Antagningsomgang": [
3          {
4              "Benamning": {
5                  "sv": "Antagning till kurs inom program KTH VT2020",
6                  "en": "Application to courses within programme at KTH VT2020"
7              },
8              "Beskrivning": {},

```

```

9      "Dolt": true,
10     "Giltighetsperiod": {},
11     "ID": "149508",
12     "Kod": "29AKPVT20",
13     "LarosateID": 29,
14     "SistaAnmalningsdag": "2019-11-15",
15     "SistaAnnonseringsdag": "2019-12-31",
16     "Studieavgiftsbelagd": true
17 },
18 {
19     "Benamning": {
20         "sv": "Antagning till kurs inom program VT2021",
21         "en": "Application to courses within programme VT2021"
22     },
23     "Beskrivning": {},
24     "Dolt": true,
25     "Giltighetsperiod": {},
26     "ID": "150872",
27     "Kod": "29AKPVT21",
28     "LarosateID": 29,
29     "SistaAnmalningsdag": "2020-11-16",
30     "SistaAnnonseringsdag": "2020-12-31",
31     "Studieavgiftsbelagd": true
32 },
33 {
34     "Benamning": {
35         "sv": "Anm\u00e4lan till kurs inom program VT2024",
36         "en": "Application to courses within programme spring term 2024"
37     },
38     "Beskrivning": {},
39     "Dolt": false,
40     "Giltighetsperiod": {},
41     "ID": "156506",
42     "Kod": "29AKPVT24",
43     "LarosateID": 29,
44     "SistaAnmalningsdag": "2023-11-15",
45     "SistaAnnonseringsdag": "2024-05-15",
46     "Studieavgiftsbelagd": true
47 },
48 {
49     "Benamning": {
50         "sv": "Anm\u00e4lan till kurs inom program VT2025",
51         "en": "Application to courses within programme spring term 2025"
52     },
53     "Beskrivning": {},
54     "Dolt": false,
55     "Giltighetsperiod": {},
56     "ID": "160413",
57     "Kod": "29AKPVT25",
58     "LarosateID": 29,
59     "SistaAnmalningsdag": "2024-11-15",

```

```

60     "SistaAnnonseringsdag": "2025-05-15",
61     "Studieavgiftsbelagd": true
62 },
63 {
64     "Benamning": {
65         "sv": "Masterval f\u00f6r civilingenj\u00f6rer p\u00e5 KTH",
66         "en": "Masterval f\u00f6r civilingenj\u00f6rer p\u00e5 KTH"
67     },
68     "Beskrivning": {},
69     "Dolt": false,
70     "Giltighetsperiod": {},
71     "ID": "161990",
72     "Kod": "29MASVAL25",
73     "LarosateID": 29,
74     "SistaAnmalningsdag": "2025-05-15",
75     "SistaAnnonseringsdag": "2025-05-15",
76     "Studieavgiftsbelagd": true
77 },
78 {
79     "Benamning": {
80         "sv": "H\u00f6stterminen 2018",
81         "en": "Autumn semester 2018"
82     },
83     "Beskrivning": {},
84     "Dolt": true,
85     "Giltighetsperiod": {},
86     "ID": "135280",
87     "Kod": "HT2018",
88     "LarosateID": 29,
89     "SistaAnmalningsdag": "2018-04-16",
90     "SistaAnnonseringsdag": "2019-04-16",
91     "Studieavgiftsbelagd": true
92 },
93 {
94     "Benamning": {
95         "sv": "Internationella kurser och program h\u00f6stterminen 2025",
96         "en": "International Courses and Programmes Autumn Semester 2025"
97     },
98     "Beskrivning": {},
99     "Dolt": false,
100     "Giltighetsperiod": {},
101     "ID": "161941",
102     "Kod": "MASTERHT26",
103     "LarosateID": 29,
104     "SistaAnmalningsdag": "2026-01-15",
105     "SistaAnnonseringsdag": "2026-05-15",
106     "Studieavgiftsbelagd": true
107 },
108 {
109     "Benamning": {
110         "sv": "Skolverket L\u00e4rlyftet HT2026",

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```

111     "en": "Skolverket L\u00e4rarlyftet HT2026"
112 },
113 "Beskrivning": {},
114 "Dolt": false,
115 "Giltighetsperiod": {},
116 "ID": "164430",
117 "Kod": "SKOLHT2026",
118 "LarosateID": 29,
119 "SistaAnmalningsdag": "2026-04-15",
120 "SistaAnnonseringsdag": "2026-09-30",
121 "Studieavgiftsbelagd": false
122 },
123 {
124   "Benamning": {
125     "sv": "Sommarterminen 2025",
126     "en": "Summer Session 2025"
127   },
128   "Beskrivning": {},
129   "Dolt": false,
130   "Giltighetsperiod": {},
131   "ID": "161290",
132   "Kod": "ST2025",
133   "LarosateID": 29,
134   "SistaAnmalningsdag": "2025-03-17",
135   "SistaAnnonseringsdag": "2025-08-19",
136   "Studieavgiftsbelagd": true
137 },
138 {
139   "Benamning": {
140     "sv": "Sommarterminen 2026",
141     "en": "Summer Session 2026"
142   },
143   "Beskrivning": {},
144   "Dolt": false,
145   "Giltighetsperiod": {},
146   "ID": "161942",
147   "Kod": "ST2026",
148   "LarosateID": 29,
149   "SistaAnmalningsdag": "2026-03-16",
150   "SistaAnnonseringsdag": "2025-08-19",
151   "Studieavgiftsbelagd": true
152 },
153 {
154   "Benamning": {
155     "sv": "V\u00e4rterminen 2025",
156     "en": "Spring Semester 2025"
157   },
158   "Beskrivning": {},
159   "Dolt": false,
160   "Giltighetsperiod": {},
161   "ID": "160016",

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```

162     "Kod": "VT2025",
163     "LarosateID": 29,
164     "SistaAnmalningsdag": "2024-10-15",
165     "SistaAnnonseringsdag": "2025-06-09",
166     "Studieavgiftsbelagd": true
167 },
168 {
169     "Benamning": {
170         "sv": "V\u00e5rterminen 2026",
171         "en": "Spring Semester 2026"
172     },
173     "Beskrivning": {},
174     "Dolt": false,
175     "Giltighetsperiod": {},
176     "ID": "161945",
177     "Kod": "VT2026",
178     "LarosateID": 29,
179     "SistaAnmalningsdag": "2025-10-15",
180     "SistaAnnonseringsdag": "2026-06-09",
181     "Studieavgiftsbelagd": true
182 },
183 {
184     "Benamning": {
185         "sv": "Anm\u00e4lan till kurs inom program p\u00e5 KTH HT2020",
186         "en": "Application to courses within programme at KTH HT2020"
187     },
188     "Beskrivning": {},
189     "Dolt": true,
190     "Giltighetsperiod": {},
191     "ID": "150233",
192     "Kod": "29AKPHT20",
193     "LarosateID": 29,
194     "SistaAnmalningsdag": "2020-05-15",
195     "SistaAnnonseringsdag": "2021-05-15",
196     "Studieavgiftsbelagd": true
197 },
198 {
199     "Benamning": {
200         "sv": "Anm\u00e4lan till kurs inom program HT2021",
201         "en": "Application to courses within programme HT2021"
202     },
203     "Beskrivning": {},
204     "Dolt": true,
205     "Giltighetsperiod": {},
206     "ID": "151634",
207     "Kod": "29AKPHT21",
208     "LarosateID": 29,
209     "SistaAnmalningsdag": "2021-05-17",
210     "SistaAnnonseringsdag": "2021-05-17",
211     "Studieavgiftsbelagd": true
212 },

```

```

213 {
214   "Benamning": {
215     "sv": "Anm\u00e4lan till kurs inom program VT2026",
216     "en": "Application to courses within programme spring term 2026"
217   },
218   "Beskrivning": {},
219   "Dolt": false,
220   "Giltighetsperiod": {},
221   "ID": "163385",
222   "Kod": "29AKPVT26",
223   "LarosateID": 29,
224   "SistaAnmalningsdag": "2025-11-17",
225   "SistaAnnonseringsdag": "2026-05-15",
226   "Studieavgiftsbelagd": true
227 },
228 {
229   "Benamning": {
230     "sv": "Civilingenj\u00f6rsval f\u00f6r studenter p\u00e5 civilingenj\u00f6r \u00f6ppen ing\u00f6ring",
231     "en": "Civilingenj\u00f6rsval f\u00f6r studenter p\u00e5 civilingenj\u00f6r \u00f6ppen ing\u00f6ring"
232   },
233   "Beskrivning": {},
234   "Dolt": false,
235   "Giltighetsperiod": {},
236   "ID": "159484",
237   "Kod": "29COPEN24",
238   "LarosateID": 29,
239   "SistaAnmalningsdag": "2024-05-27",
240   "SistaAnnonseringsdag": "2024-05-27",
241   "Studieavgiftsbelagd": true
242 },
243 {
244   "Benamning": {
245     "sv": "H\u00f6stterminen 2025",
246     "en": "Autumn Semester 2025"
247   },
248   "Beskrivning": {},
249   "Dolt": false,
250   "Giltighetsperiod": {},
251   "ID": "160017",
252   "Kod": "HT2025",
253   "LarosateID": 29,
254   "SistaAnmalningsdag": "2025-04-15",
255   "SistaAnnonseringsdag": "2026-01-09",
256   "Studieavgiftsbelagd": true
257 },
258 {
259   "Benamning": {
260     "sv": "H\u00f6stterminen 2026",
261     "en": "Autumn Semester 2026"
262   },
263   "Beskrivning": {},

```



```

264     "Dolt": false,
265     "Giltighetsperiod": {},
266     "ID": "161944",
267     "Kod": "HT2026",
268     "LarosateID": 29,
269     "SistaAnmalningsdag": "2026-04-15",
270     "SistaAnnonseringsdag": "2026-01-09",
271     "Studieavgiftsbelagd": true
272 },
273 {
274     "Benamning": {
275         "sv": "Internationella kurser och program h\u00f6stterminen 2024",
276         "en": "International Courses and Programmes Autumn Semester 2024"
277     },
278     "Beskrivning": {},
279     "Dolt": false,
280     "Giltighetsperiod": {},
281     "ID": "158393",
282     "Kod": "IKHT24",
283     "LarosateID": 29,
284     "SistaAnmalningsdag": "2024-01-15",
285     "SistaAnnonseringsdag": "2023-05-15",
286     "Studieavgiftsbelagd": true
287 },
288 {
289     "Benamning": {
290         "sv": "Internationella kurser och program h\u00f6stterminen 2025",
291         "en": "International Courses and Programmes Autumn Semester 2025"
292     },
293     "Beskrivning": {},
294     "Dolt": false,
295     "Giltighetsperiod": {},
296     "ID": "160018",
297     "Kod": "IKHT25",
298     "LarosateID": 29,
299     "SistaAnmalningsdag": "2025-01-15",
300     "SistaAnnonseringsdag": "2024-03-15",
301     "Studieavgiftsbelagd": true
302 },
303 {
304     "Benamning": {
305         "sv": "Sommarterminen 2022",
306         "en": "Summer session 2022"
307     },
308     "Beskrivning": {},
309     "Dolt": true,
310     "Giltighetsperiod": {},
311     "ID": "152328",
312     "Kod": "ST2022",
313     "LarosateID": 29,
314     "SistaAnmalningsdag": "2022-03-15",

```

```
315     "SistaAnnonseringsdag": "2022-08-19",
316     "Studieavgiftsbelagd": true
317 },
318 {
319     "Benamning": {
320         "sv": "Sommarterminen 2024",
321         "en": "Summer Session 2024"
322     },
323     "Beskrivning": {},
324     "Dolt": false,
325     "Giltighetsperiod": {},
326     "ID": "158394",
327     "Kod": "ST2024",
328     "LarosateID": 29,
329     "SistaAnmalningsdag": "2024-03-15",
330     "SistaAnnonseringsdag": "2024-08-19",
331     "Studieavgiftsbelagd": true
332 },
333 {
334     "Benamning": {
335         "sv": "V\u00e5rterminen 2023",
336         "en": "Spring Semester 2023"
337     },
338     "Beskrivning": {},
339     "Dolt": true,
340     "Giltighetsperiod": {},
341     "ID": "154117",
342     "Kod": "VT2023",
343     "LarosateID": 29,
344     "SistaAnmalningsdag": "2022-10-17",
345     "SistaAnnonseringsdag": "2023-06-09",
346     "Studieavgiftsbelagd": true
347 },
348 {
349     "Benamning": {
350         "sv": "V\u00e5rterminen 2024",
351         "en": "Spring Semester 2024"
352     },
353     "Beskrivning": {},
354     "Dolt": false,
355     "Giltighetsperiod": {},
356     "ID": "156324",
357     "Kod": "VT2024",
358     "LarosateID": 29,
359     "SistaAnmalningsdag": "2023-10-16",
360     "SistaAnnonseringsdag": "2024-06-09",
361     "Studieavgiftsbelagd": true
362 },
363 {
364     "Benamning": {
365         "sv": "Anm\u00e4lan till kurs inom program HT2024",
```

```

366     "en": "Application to courses within programme autumn term 2024"
367 },
368     "Beskrivning": {},
369     "Dolt": false,
370     "Giltighetsperiod": {},
371     "ID": "159238",
372     "Kod": "29AKPHT24",
373     "LarosateID": 29,
374     "SistaAnmalningsdag": "2024-05-15",
375     "SistaAnnonseringsdag": "2024-05-15",
376     "Studieavgiftsbelagd": true
377 },
378 {
379     "Benamning": {
380         "sv": "Anm\u00e4lan till kurs inom program HT2025",
381         "en": "Application to courses within programme autumn term 2025"
382     },
383     "Beskrivning": {},
384     "Dolt": false,
385     "Giltighetsperiod": {},
386     "ID": "161940",
387     "Kod": "29AKPHT25",
388     "LarosateID": 29,
389     "SistaAnmalningsdag": "2025-05-15",
390     "SistaAnnonseringsdag": "2025-05-15",
391     "Studieavgiftsbelagd": true
392 },
393 {
394     "Benamning": {
395         "sv": "Anm\u00e4lan till kurs inom program HT2026",
396         "en": "Application to courses within programme autumn term 2026"
397     },
398     "Beskrivning": {},
399     "Dolt": false,
400     "Giltighetsperiod": {},
401     "ID": "164627",
402     "Kod": "29AKPHT26",
403     "LarosateID": 29,
404     "SistaAnmalningsdag": "2026-05-18",
405     "SistaAnnonseringsdag": "2026-05-18",
406     "Studieavgiftsbelagd": true
407 },
408 {
409     "Benamning": {
410         "sv": "Antagning till kurs inom program KTH VT2019",
411         "en": "Application to courses within programme at KTH VT2019"
412     },
413     "Beskrivning": {},
414     "Dolt": true,
415     "Giltighetsperiod": {},
416     "ID": "142134",

```

```

417     "Kod": "29AKPVT19",
418     "LarosateID": 29,
419     "SistaAnmalningsdag": "2018-11-15",
420     "SistaAnnonseringsdag": "2019-02-28",
421     "Studieavgiftsbelagd": true
422 },
423 {
424     "Benamning": {
425         "sv": "Anm\u00e4lan till kurs inom program VT2022",
426         "en": "Application to courses within programme VT2022"
427     },
428     "Beskrivning": {},
429     "Dolt": true,
430     "Giltighetsperiod": {},
431     "ID": "152554",
432     "Kod": "29AKPVT22",
433     "LarosateID": 29,
434     "SistaAnmalningsdag": "2021-11-15",
435     "SistaAnnonseringsdag": "2022-04-30",
436     "Studieavgiftsbelagd": true
437 },
438 {
439     "Benamning": {
440         "sv": "Anm\u00e4lan till kurs inom program VT2023",
441         "en": "Application to courses within programme spring term 2023"
442     },
443     "Beskrivning": {},
444     "Dolt": true,
445     "Giltighetsperiod": {},
446     "ID": "154230",
447     "Kod": "29AKPVT23",
448     "LarosateID": 29,
449     "SistaAnmalningsdag": "2022-11-15",
450     "SistaAnnonseringsdag": "2023-04-30",
451     "Studieavgiftsbelagd": true
452 },
453 {
454     "Benamning": {
455         "sv": "Civilingenj\u00f6rsval f\u00f6r studenter p\u00e5 civilingenj\u00f6r \u00f6ppen ing\u00f6ring",
456         "en": "Civilingenj\u00f6rsval f\u00f6r studenter p\u00e5 civilingenj\u00f6r \u00f6ppen ing\u00f6ring"
457     },
458     "Beskrivning": {},
459     "Dolt": false,
460     "Giltighetsperiod": {},
461     "ID": "161991",
462     "Kod": "29COPEN25",
463     "LarosateID": 29,
464     "SistaAnmalningsdag": "2025-05-26",
465     "SistaAnnonseringsdag": "2025-05-26",
466     "Studieavgiftsbelagd": true
467 },

```

```

468 {
469   "Benamning": {
470     "sv": "Masterval f\u00f6r civilingenj\u00f6rer p\u00e5 KTH",
471     "en": "Masterval f\u00f6r civilingenj\u00f6rer p\u00e5 KTH"
472   },
473   "Beskrivning": {},
474   "Dolt": false,
475   "Giltighetsperiod": {},
476   "ID": "159485",
477   "Kod": "29MASVAL24",
478   "LarosateID": 29,
479   "SistaAnmalningsdag": "2024-05-15",
480   "SistaAnnonseringsdag": "2024-05-15",
481   "Studieavgiftsbelagd": true
482 },
483 {
484   "Benamning": {
485     "sv": "H\u00f6stterminen 2019",
486     "en": "Autumn Semester 2019"
487   },
488   "Beskrivning": {
489     "sv": "Prelimin\u00e4r sista anm\u00e4lningsdag"
490   },
491   "Dolt": true,
492   "Giltighetsperiod": {},
493   "ID": "138495",
494   "Kod": "HT2019",
495   "LarosateID": 29,
496   "SistaAnmalningsdag": "2019-04-15",
497   "SistaAnnonseringsdag": "2020-01-10",
498   "Studieavgiftsbelagd": true
499 },
500 {
501   "Benamning": {
502     "sv": "H\u00f6stterminen 2022",
503     "en": "Autumn semester 2022"
504   },
505   "Beskrivning": {},
506   "Dolt": true,
507   "Giltighetsperiod": {},
508   "ID": "152327",
509   "Kod": "HT2022",
510   "LarosateID": 29,
511   "SistaAnmalningsdag": "2022-04-19",
512   "SistaAnnonseringsdag": "2023-01-10",
513   "Studieavgiftsbelagd": true
514 },
515 {
516   "Benamning": {
517     "sv": "H\u00f6stterminen 2023",
518     "en": "Autumn Semester 2023"

```

```
519     },
520     "Beskrivning": {},
521     "Dolt": false,
522     "Giltighetsperiod": {},
523     "ID": "154250",
524     "Kod": "HT2023",
525     "LarosateID": 29,
526     "SistaAnmalningsdag": "2023-04-17",
527     "SistaAnnonseringsdag": "2023-01-09",
528     "Studieavgiftsbelagd": true
529   },
530   {
531     "Benamning": {
532       "sv": "H\u00f6stterminen 2024",
533       "en": "Autumn Semester 2024"
534     },
535     "Beskrivning": {},
536     "Dolt": false,
537     "Giltighetsperiod": {},
538     "ID": "157807",
539     "Kod": "HT2024",
540     "LarosateID": 29,
541     "SistaAnmalningsdag": "2024-04-15",
542     "SistaAnnonseringsdag": "2025-01-09",
543     "Studieavgiftsbelagd": true
544   },
545   {
546     "Benamning": {
547       "sv": "H\u00f6stterminen 2027",
548       "en": "Autumn Semester 2027"
549     },
550     "Beskrivning": {},
551     "Dolt": false,
552     "Giltighetsperiod": {},
553     "ID": "164431",
554     "Kod": "HT2027",
555     "LarosateID": 29,
556     "SistaAnmalningsdag": "2027-04-15",
557     "SistaAnnonseringsdag": "2027-01-29",
558     "Studieavgiftsbelagd": true
559   },
560   {
561     "Benamning": {
562       "sv": "Internationella kurser och program h\u00f6stterminen 2018",
563       "en": "International Courses and Programmes Autumn Semester 2018"
564     },
565     "Beskrivning": {},
566     "Dolt": true,
567     "Giltighetsperiod": {},
568     "ID": "135281",
569     "Kod": "IKHT18",
```

```

570     "LarosateID": 29,
571     "SistaAnmalningsdag": "2018-01-15",
572     "SistaAnnonseringsdag": "2019-01-15",
573     "Studieavgiftsbelagd": true
574 },
575 {
576     "Benamning": {
577         "sv": "Internationella kurser och program h\u00f6stterminen 2019",
578         "en": "International Courses and Programmes Autumn Semester 2019"
579     },
580     "Beskrivning": {},
581     "Dolt": true,
582     "Giltighetsperiod": {},
583     "ID": "138496",
584     "Kod": "IKHT19",
585     "LarosateID": 29,
586     "SistaAnmalningsdag": "2019-01-15",
587     "SistaAnnonseringsdag": "2019-01-15",
588     "Studieavgiftsbelagd": true
589 },
590 {
591     "Benamning": {
592         "sv": "Internationella kurser och program h\u00f6stterminen 2022",
593         "en": "International Courses and Programmes Autumn Semester 2022"
594     },
595     "Beskrivning": {},
596     "Dolt": true,
597     "Giltighetsperiod": {},
598     "ID": "152329",
599     "Kod": "IKHT22",
600     "LarosateID": 29,
601     "SistaAnmalningsdag": "2022-01-17",
602     "SistaAnnonseringsdag": "2023-01-10",
603     "Studieavgiftsbelagd": true
604 },
605 {
606     "Benamning": {
607         "sv": "Internationella kurser och program h\u00f6stterminen 2026",
608         "en": "International Courses and Programmes Autumn Semester 2026"
609     },
610     "Beskrivning": {},
611     "Dolt": false,
612     "Giltighetsperiod": {},
613     "ID": "161943",
614     "Kod": "IKHT26",
615     "LarosateID": 29,
616     "SistaAnmalningsdag": "2026-01-15",
617     "SistaAnnonseringsdag": "2024-03-15",
618     "Studieavgiftsbelagd": true
619 },
620 {

```

```

621     "Benamning": {
622       "sv": "Internationella masterprogram h\u00f6stterminen 2019",
623       "en": "International Master Programmes Autumn Semester 2019"
624     },
625     "Beskrivning": {},
626     "Dolt": true,
627     "Giltighetsperiod": {},
628     "ID": "135951",
629     "Kod": "MASTERHT19",
630     "LarosateID": 29,
631     "SistaAnmalningsdag": "2019-01-15",
632     "SistaAnnonseringsdag": "2020-01-14",
633     "Studieavgiftsbelagd": true
634   },
635   {
636     "Benamning": {
637       "sv": "Internationella masterprogram h\u00f6stterminen 2024",
638       "en": "International Master\u2019s Programmes Autumn Semester 2024"
639     },
640     "Beskrivning": {},
641     "Dolt": false,
642     "Giltighetsperiod": {},
643     "ID": "158395",
644     "Kod": "MASTERHT24",
645     "LarosateID": 29,
646     "SistaAnmalningsdag": "2024-01-15",
647     "SistaAnnonseringsdag": "2024-05-15",
648     "Studieavgiftsbelagd": true
649   },
650   {
651     "Benamning": {
652       "sv": "Internationella masterprogram h\u00f6stterminen 2025",
653       "en": "International Master's Programmes Autumn Semester 2025"
654     },
655     "Beskrivning": {},
656     "Dolt": false,
657     "Giltighetsperiod": {},
658     "ID": "160052",
659     "Kod": "MASTERHT25",
660     "LarosateID": 29,
661     "SistaAnmalningsdag": "2025-01-15",
662     "SistaAnnonseringsdag": "2025-05-15",
663     "Studieavgiftsbelagd": true
664   },
665   {
666     "Benamning": {
667       "sv": "V\u00e5rterminen 2019",
668       "en": "Spring Semester 2019"
669     },
670     "Beskrivning": {
671       "sv": "Prelimin\u00e4r sista anm\u00e4lningsdag"

```



```

672     },
673     "Dolt": true,
674     "Giltighetsperiod": {},
675     "ID": "135893",
676     "Kod": "VT2019",
677     "LarosateID": 29,
678     "SistaAnmalningsdag": "2018-10-15",
679     "SistaAnnonseringsdag": "2019-06-30",
680     "Studieavgiftsbelagd": true
681 },
682 {
683     "Benamning": {
684         "sv": "V\u00e5rterminen 2022",
685         "en": "Spring Semester 2022"
686     },
687     "Beskrivning": {},
688     "Dolt": true,
689     "Giltighetsperiod": {},
690     "ID": "152326",
691     "Kod": "VT2022",
692     "LarosateID": 29,
693     "SistaAnmalningsdag": "2021-10-15",
694     "SistaAnnonseringsdag": "2022-06-10",
695     "Studieavgiftsbelagd": true
696 },
697 {
698     "Benamning": {
699         "sv": "Anm\u00e4lan till kurs inom program p\u00e5 KTH HT2018",
700         "en": "Anm\u00e4lan till kurs inom program p\u00e5 KTH HT2018"
701     },
702     "Beskrivning": {},
703     "Dolt": true,
704     "Giltighetsperiod": {},
705     "ID": "135279",
706     "Kod": "29AKPHT18",
707     "LarosateID": 29,
708     "SistaAnmalningsdag": "2018-05-15",
709     "SistaAnnonseringsdag": "2019-05-15",
710     "Studieavgiftsbelagd": true
711 },
712 {
713     "Benamning": {
714         "sv": "Anm\u00e4lan till kurs inom program p\u00e5 KTH HT2019",
715         "en": "Application to courses within programme at KTH HT2019"
716     },
717     "Beskrivning": {},
718     "Dolt": true,
719     "Giltighetsperiod": {},
720     "ID": "148458",
721     "Kod": "29AKPHT19",
722     "LarosateID": 29,

```

```

723     "SistaAnmalningsdag": "2019-05-15",
724     "SistaAnnonseringsdag": "2020-05-15",
725     "Studieavgiftsbelagd": true
726 },
727 {
728     "Benamning": {
729         "sv": "Anm\u00e4lan till kurs inom program HT2022",
730         "en": "Application to courses within programme HT2022"
731     },
732     "Beskrivning": {},
733     "Dolt": true,
734     "Giltighetsperiod": {},
735     "ID": "153586",
736     "Kod": "29AKPHT22",
737     "LarosateID": 29,
738     "SistaAnmalningsdag": "2022-05-16",
739     "SistaAnnonseringsdag": "2022-05-16",
740     "Studieavgiftsbelagd": true
741 },
742 {
743     "Benamning": {
744         "sv": "Anm\u00e4lan till kurs inom program HT2023",
745         "en": "Application to courses within programme autumn term 2023"
746     },
747     "Beskrivning": {},
748     "Dolt": true,
749     "Giltighetsperiod": {},
750     "ID": "155258",
751     "Kod": "29AKPHT23",
752     "LarosateID": 29,
753     "SistaAnmalningsdag": "2023-05-15",
754     "SistaAnnonseringsdag": "2023-05-15",
755     "Studieavgiftsbelagd": true
756 }
757 ]
758 }

```

20.23 utbildningstyp_JSON

```

1179 <LadokSession data methods 126b>+=
    # added by GQMJr
    def utbildningstyp_JSON(self):
        """
        Returns types of education.

        For information about these, see

        https://ladok.se/wp-content/uploads/2018/01/Funktionsbeskrivning_095.pdf
        """
        r = self.session.get(

```

```

url=self.base_gui_proxy_url +
    '/kataloginformation/internal/grunddata/utbildningstyp',
headers=self.headers).json()
return r

```

Let's add a test. This should return a dictionary.

```

1180 <test functions 126a>+=
def test_utbildningstyp_JSON():
    r = ladok.utbildningstyp_JSON()
    assert type(r) == dict

```

This code is used in chunk 121.

The output looks like this:

```

1  {
2    "Utbildningstyp": [
3      {
4        "AvserTillfalle": false,
5        "Benamning": {
6          "sv": "Modul utan omfattning",
7          "en": "Module without scope"
8        },
9        "Beskrivning": {},
10       "Dolt": false,
11       "Giltighetsperiod": {},
12       "Grundtyp": "MODUL",
13       "ID": "3",
14       "Kod": "2007MUO",
15       "LarosateID": -1,
16       "Regelverk": {
17         "Regelvarden": [
18           {
19             "Regelnamn": "commons.domain.regel.har.omfattning",
20             "Uid": "d31a4082-e80a-11e8-b1f1-65de97d74aa5",
21             "Varde": "false"
22           },
23           {
24             "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
25             "Uid": "d31a4081-e80a-11e8-b1f1-65de97d74aa5",
26             "Varde": "grupp.for.utsokning.grundavanceradniva"
27           },
28           {
29             "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
30             "Uid": "d31a4085-e80a-11e8-b1f1-65de97d74aa5",
31             "Varde": "true"
32           },
33           {
34             "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
35             "Uid": "d31a4084-e80a-11e8-b1f1-65de97d74aa5",
36             "Varde": "true"
37           },
38         ]

```

```

39         "Regelnamn": "commons.domain.regel.sjalvstandig",
40         "Uid": "d31a4086-e80a-11e8-b1f1-65de97d74aa5",
41         "Varde": "false"
42     },
43     {
44         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
45         "Uid": "d31a4080-e80a-11e8-b1f1-65de97d74aa5",
46         "Varde": "true"
47     },
48     {
49         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
50         "Uid": "d31a196f-e80a-11e8-b1f1-65de97d74aa5",
51         "Varde": "grupp.for.utsokning.forskarniva"
52     },
53     {
54         "Regelnamn": "commons.domain.regel.versionshanteras",
55         "Uid": "d31a4083-e80a-11e8-b1f1-65de97d74aa5",
56         "Varde": "false"
57     }
58 ],
59 "Uid": "0441f5ba-1b3f-11e6-aff0-464044604cb6"
60 },
61 "Sorteringsordning": 50,
62 "StudieordningID": 1,
63 "TillfalleInomUtbildningstyper": [],
64 "UtbildningstyperInomUtbildningstyp": []
65 },
66 {
67     "AvserTillfalle": false,
68     "Benamning": {
69         "sv": "Modul",
70         "en": "Module"
71     },
72     "Beskrivning": {},
73     "Dolt": false,
74     "Giltighetsperiod": {},
75     "Grundtyp": "MODUL",
76     "ID": "4",
77     "Kod": "2007MOD",
78     "LarosateID": -1,
79     "Regelverk": {
80         "Regelvarden": [
81             {
82                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
83                 "Uid": "b18301bb-e80a-11e8-b1f1-65de97d74aa5",
84                 "Varde": "true"
85             },
86             {
87                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
88                 "Uid": "b18301bd-e80a-11e8-b1f1-65de97d74aa5",
89                 "Varde": "grupp.for.utsokning.grundavanceradniva"

```

```

90     },
91     {
92       "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
93       "Uid": "b18301c1-e80a-11e8-b1f1-65de97d74aa5",
94       "Varde": "true"
95     },
96     {
97       "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
98       "Uid": "b18301c0-e80a-11e8-b1f1-65de97d74aa5",
99       "Varde": "grupp.for.utsokning.forskarniva"
100    },
101    {
102      "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
103      "Uid": "b18301bc-e80a-11e8-b1f1-65de97d74aa5",
104      "Varde": "true"
105    },
106    {
107      "Regelnamn": "commons.domain.regel.sjalvstandig",
108      "Uid": "b18301bf-e80a-11e8-b1f1-65de97d74aa5",
109      "Varde": "false"
110    },
111    {
112      "Regelnamn": "commons.domain.regel.versionshanteras",
113      "Uid": "b18301be-e80a-11e8-b1f1-65de97d74aa5",
114      "Varde": "false"
115    }
116  ],
117  "Uid": "0461b2c4-1b3f-11e6-aff0-464044604cb6"
118 },
119 "Sorteringsordning": 50,
120 "StudieordningID": 1,
121 "TillfalleInomUtbildningstyper": [],
122 "UtbildningstyperInomUtbildningstyp": []
123 },
124 {
125   "AvserTillfalle": false,
126   "Benamning": {
127     "sv": "Kurs, grundniv\u00e5",
128     "en": "Course, First-cycle"
129   },
130   "Beskrivning": {},
131   "Dolt": false,
132   "Giltighetsperiod": {},
133   "Grundtyp": "KURS",
134   "ID": "22",
135   "Kod": "2007GKURS",
136   "LarosateID": -1,
137   "NivaInomStudieordningID": 1,
138   "Regelverk": {
139     "Regelvarde": [
140       {

```

```

141     "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
142     "Uid": "cd705d5c-eef3-11ed-8ea0-65f2d2a34a25",
143     "Varde": "true"
144 },
145 {
146     "Regelnamn": "commons.domain.regel.avbrottsregel",
147     "Uid": "cd705d60-eef3-11ed-8ea0-65f2d2a34a25",
148     "Varde": "20"
149 },
150 {
151     "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
152     "Uid": "cd705d5e-eef3-11ed-8ea0-65f2d2a34a25",
153     "Varde": "true"
154 },
155 {
156     "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
157     "Uid": "cd705d5f-eef3-11ed-8ea0-65f2d2a34a25",
158     "Varde": "true"
159 },
160 {
161     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
162     "Uid": "cd705d5d-eef3-11ed-8ea0-65f2d2a34a25",
163     "Varde": "true"
164 },
165 {
166     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
167     "Uid": "cd705d5b-eef3-11ed-8ea0-65f2d2a34a25",
168     "Varde": "grupp.for.utsokning.grundavanceradniva"
169 },
170 {
171     "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
172     "Uid": "cd705d61-eef3-11ed-8ea0-65f2d2a34a25",
173     "Varde": "true"
174 }
175 ],
176 "Uid": "047c3fad-1b3f-11e6-aff0-464044604cb6"
177 },
178 "Sorteringsordning": 1,
179 "StudieordningID": 1,
180 "TillfalleInomUtbildningstyper": [],
181 "UtbildningstyperInomUtbildningstyp": [
182     3,
183     4
184 ]
185 },
186 {
187     "AvserTillfalle": false,
188     "Benamning": {
189         "sv": "Kurs, avancerad niv\u00e5",
190         "en": "Course, Second-cycle"
191     },

```

```

192     "Beskrivning": {},
193     "Dolt": false,
194     "Giltighetsperiod": {},
195     "Grundtyp": "KURS",
196     "ID": "24",
197     "Kod": "2007AKURS",
198     "LarosateID": -1,
199     "NivaInomStudieordningID": 2,
200     "Regelverk": {
201       "Regelvarden": [
202         {
203           "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
204           "Uid": "e15c283f-eef3-11ed-8ea0-65f2d2a34a25",
205           "Varde": "true"
206         },
207         {
208           "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
209           "Uid": "e15c2842-eef3-11ed-8ea0-65f2d2a34a25",
210           "Varde": "true"
211         },
212         {
213           "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
214           "Uid": "e15c2841-eef3-11ed-8ea0-65f2d2a34a25",
215           "Varde": "true"
216         },
217         {
218           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
219           "Uid": "e15c283e-eef3-11ed-8ea0-65f2d2a34a25",
220           "Varde": "grupp.for.utsokning.grundavanceradniva"
221         },
222         {
223           "Regelnamn": "commons.domain.regel.avbrottsregel",
224           "Uid": "e15c2843-eef3-11ed-8ea0-65f2d2a34a25",
225           "Varde": "20"
226         },
227         {
228           "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
229           "Uid": "e15c2840-eef3-11ed-8ea0-65f2d2a34a25",
230           "Varde": "true"
231         },
232         {
233           "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
234           "Uid": "e15c2844-eef3-11ed-8ea0-65f2d2a34a25",
235           "Varde": "true"
236         }
237       ],
238       "Uid": "0491c386-1b3f-11e6-aff0-464044604cb6"
239     },
240     "Sorteringsordning": 2,
241     "StudieordningID": 1,
242     "TillfalleInomUtbildningstyper": [],

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243     "UtbildningstyperInomUtbildningstyp": [
244         3,
245         4
246     ]
247 },
248 {
249     "AvserTillfalle": true,
250     "Benamning": {
251         "sv": "Kurstillf\u00e4lle",
252         "en": "Course instance"
253     },
254     "Beskrivning": {},
255     "Dolt": false,
256     "Giltighetsperiod": {},
257     "Grundtyp": "KURS",
258     "ID": "52",
259     "Kod": "2007KTF",
260     "LarosateID": -1,
261     "Regelverk": {
262         "Regelvarden": [
263             {
264                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
265                 "Uid": "6e4cc1b0-b803-11ed-8cb2-324fb1124949",
266                 "Varde": "true"
267             },
268             {
269                 "Regelnamn": "commons.domain.regel.kan.utannonseras",
270                 "Uid": "6e4cc1b2-b803-11ed-8cb2-324fb1124949",
271                 "Varde": "true"
272             },
273             {
274                 "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
275                 "Uid": "6e4cc1b3-b803-11ed-8cb2-324fb1124949",
276                 "Varde": "varning"
277             },
278             {
279                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
280                 "Uid": "6e4cc1b1-b803-11ed-8cb2-324fb1124949",
281                 "Varde": "true"
282             },
283             {
284                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
285                 "Uid": "6e4c9a9f-b803-11ed-8cb2-324fb1124949",
286                 "Varde": "grupp.for.utsokning.grundavanceradniva"
287             }
288         ],
289         "Uid": "04abdb3c-1b3f-11e6-aff0-464044604cb6"
290     },
291     "Sorteringsordning": 1,
292     "StudieordningID": 1,
293     "TillfalleInomUtbildningstyper": [

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294         22,
295         24
296     ],
297     "UtbildningstyperInomUtbildningstyp": [],
298 },
299 {
300     "AvserTillfalle": false,
301     "Benamning": {
302         "sv": "Program",
303         "en": "Programme"
304     },
305     "Beskrivning": {},
306     "Dolt": false,
307     "Giltighetsperiod": {},
308     "Grundtyp": "KURSPAKETERING",
309     "ID": "78",
310     "Kod": "2007PRG",
311     "LarosateID": -1,
312     "Regelverk": {
313         "Regelvarden": [
314             {
315                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
316                 "Uid": "28074798-5350-11f0-91e2-3ba1697c4b13",
317                 "Varde": "grupp.for.utsokning.grundavanceradniva"
318             },
319             {
320                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
321                 "Uid": "28072086-5350-11f0-91e2-3ba1697c4b13",
322                 "Varde": "true"
323             },
324             {
325                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
326                 "Uid": "28074797-5350-11f0-91e2-3ba1697c4b13",
327                 "Varde": "true"
328             },
329             {
330                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
331                 "Uid": "28074799-5350-11f0-91e2-3ba1697c4b13",
332                 "Varde": "true"
333             }
334         ],
335         "Uid": "04b37c62-1b3f-11e6-aff0-464044604cb6"
336     },
337     "Sorteringsordning": 4,
338     "StudieordningID": 1,
339     "TillfalleInomUtbildningstyper": [],
340     "UtbildningstyperInomUtbildningstyp": [
341         101291,
342         162240,
343         22,
344         101270,

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345         24,
346         101375
347     ]
348 },
349 {
350     "AvserTillfalle": true,
351     "Benamning": {
352         "sv": "Programtillf\u00e4lle",
353         "en": "Programme instance"
354     },
355     "Beskrivning": {},
356     "Dolt": false,
357     "Giltighetsperiod": {},
358     "Grundtyp": "KURSPAKETERING",
359     "ID": "94",
360     "Kod": "2007PRGTF",
361     "LarosateID": -1,
362     "Regelverk": {
363         "Regelvarden": [
364             {
365                 "Regelnamn": "commons.domain.regel.kan.utannonseras",
366                 "Uid": "3f1debe9-5350-11f0-91e2-3ba1697c4b13",
367                 "Varde": "true"
368             },
369             {
370                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
371                 "Uid": "3f1debe8-5350-11f0-91e2-3ba1697c4b13",
372                 "Varde": "true"
373             },
374             {
375                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
376                 "Uid": "3f1debea-5350-11f0-91e2-3ba1697c4b13",
377                 "Varde": "grupp.for.utsokning.grundavanceradniva"
378             },
379             {
380                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
381                 "Uid": "3f1debe7-5350-11f0-91e2-3ba1697c4b13",
382                 "Varde": "true"
383             },
384             {
385                 "Regelnamn": "commons.domain.regel.atgard_vid_orimligt_omfattningsvarde",
386                 "Uid": "3f1debe6-5350-11f0-91e2-3ba1697c4b13",
387                 "Varde": "varning"
388             }
389         ],
390         "Uid": "04ba5a38-1b3f-11e6-aff0-464044604cb6"
391     },
392     "Sorteringsordning": 50,
393     "StudieordningID": 1,
394     "TillfalleInomUtbildningstyper": [
395         78

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396     ],
397     "UtbildningstyperInomUtbildningstyp": [
398         101291,
399         105632,
400         52,
401         22,
402         101382,
403         101378,
404         101381,
405         152635,
406         162242,
407         152633,
408         101375,
409         101290,
410         101374,
411         101292,
412         162240,
413         101270,
414         101377,
415         101961,
416         24,
417         152634
418     ]
419 },
420 {
421     "AvserTillfalle": true,
422     "Benamning": {
423         "sv": "Programtillf\u00e4lle",
424         "en": "Programme instance"
425     },
426     "Beskrivning": {},
427     "Dolt": false,
428     "Giltighetsperiod": {},
429     "Grundtyp": "KURSPAKETERING",
430     "ID": "101373",
431     "Kod": "1993PRGTF",
432     "LarosateID": -1,
433     "Regelverk": {
434         "Regelvarden": [
435             {
436                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
437                 "Uid": "9873168b-c48c-11f0-896c-18af8e4c4a04",
438                 "Varde": "true"
439             },
440             {
441                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
442                 "Uid": "9872ef7a-c48c-11f0-896c-18af8e4c4a04",
443                 "Varde": "grupp.for.utsokning.grundavanceradniva"
444             }
445         ],
446         "Uid": "2fb0819c-0ae3-11e7-9666-bc4d0f6c4981"

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447     },
448     "Sorteringsordning": 50,
449     "StudieordningID": 2,
450     "TillfalleInomUtbildningstyper": [
451         101372
452     ],
453     "UtbildningstyperInomUtbildningstyp": [
454         101965,
455         101374,
456         105632,
457         52,
458         101382,
459         101966,
460         101381,
461         101961,
462         138460
463     ]
464 },
465 {
466     "AvserTillfalle": true,
467     "Benamning": {
468         "sv": "Kurstillf\u00e4lle, grundutbildning",
469         "en": "Course instance, Undergraduate"
470     },
471     "Beskrivning": {},
472     "Dolt": false,
473     "Giltighetsperiod": {},
474     "Grundtyp": "KURS",
475     "ID": "101374",
476     "Kod": "1993GKTF",
477     "LarosateID": -1,
478     "Regelverk": {
479         "Regelvarden": [
480             {
481                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
482                 "Uid": "acbe75b7-e80a-11e8-b1f1-65de97d74aa5",
483                 "Varde": "true"
484             },
485             {
486                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
487                 "Uid": "acbe75b8-e80a-11e8-b1f1-65de97d74aa5",
488                 "Varde": "grupp.for.utsokning.grundavanceradniva"
489             }
490         ],
491         "Uid": "ba8d0d32-7a4f-11e6-8419-0812bb95460f"
492     },
493     "Sorteringsordning": 50,
494     "StudieordningID": 2,
495     "TillfalleInomUtbildningstyper": [
496         101370
497     ],

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498     "UtbildningstyperInomUtbildningstyp": []
499 },
500 {
501     "AvserTillfalle": false,
502     "Benamning": {
503         "sv": "Utbytesavtal",
504         "en": "Exchange agreement"
505     },
506     "Beskrivning": {},
507     "Dolt": false,
508     "Giltighetsperiod": {},
509     "Grundtyp": "KURSPAKETERING",
510     "ID": "101375",
511     "Kod": "2007UA",
512     "LarosateID": -1,
513     "Regelverk": {
514         "Regelvarden": [
515             {
516                 "Regelnamn": "commons.domain.regel.har.omfattning",
517                 "Uid": "fa69a5ba-6f95-11eb-998b-eb07df7e45d0",
518                 "Varde": "false"
519             },
520             {
521                 "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
522                 "Uid": "fa69a5bb-6f95-11eb-998b-eb07df7e45d0",
523                 "Varde": "true"
524             }
525         ],
526         "Uid": "25beca02-7a58-11e6-8419-0812bb95460f"
527     },
528     "Sorteringsordning": 7,
529     "StudieordningID": 1,
530     "TillfalleInomUtbildningstyper": [],
531     "UtbildningstyperInomUtbildningstyp": [
532         101291,
533         22,
534         78,
535         151503,
536         24,
537         101954
538     ]
539 },
540 {
541     "AvserTillfalle": true,
542     "Benamning": {
543         "sv": "Utbytestillf\u00e4lle, inresande",
544         "en": "Exchange instance, incoming students"
545     },
546     "Beskrivning": {},
547     "Dolt": false,
548     "Giltighetsperiod": {},

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549     "Grundtyp": "KURSPAKETERING",
550     "ID": "101376",
551     "Kod": "2007UTFI",
552     "LarosateID": -1,
553     "Regelverk": {
554         "Regelvarden": [
555             {
556                 "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
557                 "UId": "b96fb46b-fb9f-11ec-8340-1c3a6877401a",
558                 "Varde": "true"
559             },
560             {
561                 "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
562                 "UId": "b972256e-fb9f-11ec-8340-1c3a6877401a",
563                 "Varde": "true"
564             },
565             {
566                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.inresande",
567                 "UId": "b972256d-fb9f-11ec-8340-1c3a6877401a",
568                 "Varde": "true"
569             }
570         ],
571         "UId": "d66d0f7a-ed35-11e6-9e0c-466dbe4e475f"
572     },
573     "Sorteringsordning": 50,
574     "StudieordningID": 1,
575     "TillfalleInomUtbildningstyper": [
576         101375
577     ],
578     "UtbildningstyperInomUtbildningstyp": [
579         101291,
580         52,
581         22,
582         101382,
583         101378,
584         106390,
585         94,
586         101381,
587         152635,
588         148962,
589         152633,
590         101380,
591         101954,
592         101292,
593         151504,
594         101951,
595         78,
596         107510,
597         101955,
598         101950,
599         151503,

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600         24
601     ]
602 },
603 {
604     "AvserTillfalle": true,
605     "Benamning": {
606         "sv": "Utbytestillf\u00e4lle, utresande",
607         "en": "Exchange instance, outgoing students"
608     },
609     "Beskrivning": {},
610     "Dolt": false,
611     "Giltighetsperiod": {},
612     "Grundtyp": "KURSPAKETERING",
613     "ID": "101377",
614     "Kod": "2007UTFU",
615     "LarosateID": -1,
616     "Regelverk": {
617         "Regelvarden": [
618             {
619                 "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
620                 "Uid": "cc81188f-ee40-11e8-9270-17395ad8480f",
621                 "Varde": "true"
622             },
623             {
624                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.utresande",
625                 "Uid": "cc811890-ee40-11e8-9270-17395ad8480f",
626                 "Varde": "true"
627             },
628             {
629                 "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
630                 "Uid": "cc811891-ee40-11e8-9270-17395ad8480f",
631                 "Varde": "true"
632             }
633         ],
634         "Uid": "b0f22e0a-7a5c-11e6-8419-0812bb95460f"
635     },
636     "Sorteringsordning": 50,
637     "StudieordningID": 1,
638     "TillfalleInomUtbildningstyper": [
639         101375
640     ],
641     "UtbildningstyperInomUtbildningstyp": [
642         117019,
643         101959,
644         101731
645     ]
646 },
647 {
648     "AvserTillfalle": false,
649     "Benamning": {
650         "sv": "Kurs",

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651     "en": "Course"
652 },
653 "Beskrivning": {},
654 "Dolt": false,
655 "Giltighetsperiod": {},
656 "Grundtyp": "KURS",
657 "ID": "101378",
658 "Kod": "FUPKURS",
659 "LarosateID": -1,
660 "Regelverk": {
661     "Regelvarden": [
662         {
663             "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
664             "UId": "b42333b5-e0de-11ec-bb44-ad608ddd4f32",
665             "Varde": "grupp.for.utsokning.forutbildning"
666         },
667         {
668             "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
669             "UId": "b42333ba-e0de-11ec-bb44-ad608ddd4f32",
670             "Varde": "true"
671         },
672         {
673             "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
674             "UId": "b42333b7-e0de-11ec-bb44-ad608ddd4f32",
675             "Varde": "true"
676         },
677         {
678             "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
679             "UId": "b42333b6-e0de-11ec-bb44-ad608ddd4f32",
680             "Varde": "true"
681         },
682         {
683             "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
684             "UId": "b42333b9-e0de-11ec-bb44-ad608ddd4f32",
685             "Varde": "true"
686         },
687         {
688             "Regelnamn": "commons.domain.regel.avbrottsregel",
689             "UId": "b42333b8-e0de-11ec-bb44-ad608ddd4f32",
690             "Varde": "20"
691         }
692     ],
693     "UId": "e4ca44d7-8622-11e6-89f6-efd50fc84e85"
694 },
695 "Sorteringsordning": 1,
696 "StudieordningID": 3,
697 "TillfalleInomUtbildningstyper": [],
698 "UtbildningstyperInomUtbildningstyp": [
699     101976,
700     101379
701 ]

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702     },
703     {
704         "AvserTillfalle": false,
705         "Benamning": {
706             "sv": "Modul",
707             "en": "Module"
708         },
709         "Beskrivning": {},
710         "Dolt": false,
711         "Giltighetsperiod": {},
712         "Grundtyp": "MODUL",
713         "ID": "101379",
714         "Kod": "FUPMOD",
715         "LarosateID": -1,
716         "Regelverk": {
717             "Regelvarden": [
718                 {
719                     "Regelnamn": "commons.domain.regel.versionshanteras",
720                     "Uid": "b5e0dded-e80a-11e8-b1f1-65de97d74aa5",
721                     "Varde": "false"
722                 },
723                 {
724                     "Regelnamn": "commons.domain.regel.sjalvstandig",
725                     "Uid": "b5e0dde9-e80a-11e8-b1f1-65de97d74aa5",
726                     "Varde": "false"
727                 },
728                 {
729                     "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
730                     "Uid": "b5e0dddec-e80a-11e8-b1f1-65de97d74aa5",
731                     "Varde": "true"
732                 },
733                 {
734                     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
735                     "Uid": "b5e0ddea-e80a-11e8-b1f1-65de97d74aa5",
736                     "Varde": "grupp.for.utsokning.forutbildning"
737                 },
738                 {
739                     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
740                     "Uid": "b5e0ddeb-e80a-11e8-b1f1-65de97d74aa5",
741                     "Varde": "true"
742                 }
743             ],
744             "Uid": "46d086da-7a67-11e6-8419-0812bb95460f"
745         },
746         "Sorteringsordning": 50,
747         "StudieordningID": 3,
748         "TillfalleInomUtbildningstyper": [],
749         "UtbildningstyperInomUtbildningstyp": []
750     },
751     {
752         "AvserTillfalle": false,

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753     "Benamning": {
754         "sv": "Forskningsarbete",
755         "en": "Research project"
756     },
757     "Beskrivning": {
758         "sv": "Vetenskaplig avhandling (doktorsavhandling), vetenskaplig uppsats (f\u00f6r licentiatexa
759     },
760     "Dolt": false,
761     "Giltighetsperiod": {},
762     "Grundtyp": "KURS",
763     "ID": "101952",
764     "Kod": "2007VF",
765     "LarosateID": -1,
766     "NivaInomStudieordningID": 3,
767     "Regelverk": {
768         "Regelvarden": [
769             {
770                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
771                 "Uid": "de9fbc7a-e809-11e8-b1f1-65de97d74aa5",
772                 "Varde": "grupp.for.utsokning.forskarniva"
773             },
774             {
775                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
776                 "Uid": "de9fbc79-e809-11e8-b1f1-65de97d74aa5",
777                 "Varde": "true"
778             }
779         ],
780         "Uid": "98daf2d7-ec60-11e6-8a84-352cf9f6431e"
781     },
782     "Sorteringsordning": 8,
783     "StudieordningID": 1,
784     "TillfalleInomUtbildningstyper": [],
785     "UtbildningstyperInomUtbildningstyp": [
786         3,
787         4
788     ]
789 },
790 {
791     "AvserTillfalle": true,
792     "Benamning": {
793         "sv": "Tillf\u00e4lle f\u00f6r forskningsarbete",
794         "en": "Research project instance"
795     },
796     "Beskrivning": {},
797     "Dolt": false,
798     "Giltighetsperiod": {},
799     "Grundtyp": "KURS",
800     "ID": "101953",
801     "Kod": "2007VFTF",
802     "LarosateID": -1,
803     "Regelverk": {

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804     "Regelvarden": [
805       {
806         "Regelnamn": "commons.domain.regel.studieperiod.kan.laggas.till",
807         "Uid": "0249354f-a963-11ea-8eca-41686c5c4a35",
808         "Varde": "true"
809       },
810       {
811         "Regelnamn": "commons.domain.regel.individuell",
812         "Uid": "0249354d-a963-11ea-8eca-41686c5c4a35",
813         "Varde": "true"
814       },
815       {
816         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
817         "Uid": "02490e3c-a963-11ea-8eca-41686c5c4a35",
818         "Varde": "grupp.for.utsokning.forskarniva"
819       },
820       {
821         "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
822         "Uid": "0249354e-a963-11ea-8eca-41686c5c4a35",
823         "Varde": "true"
824       }
825     ],
826     "Uid": "fb862c6d-a752-11e6-bc5d-3b8bbccc4a18"
827   },
828   "Sorteringsordning": 50,
829   "StudieordningID": 1,
830   "TillfalleInomUtbildningstyper": [
831     101952,
832     110915
833   ],
834   "UtbildningstyperInomUtbildningstyp": []
835 },
836 {
837   "AvserTillfalle": false,
838   "Benamning": {
839     "sv": "Kurs, forskarniv\u00e5",
840     "en": "Course, Third-cycle"
841   },
842   "Beskrivning": {},
843   "Dolt": false,
844   "Giltighetsperiod": {},
845   "Grundtyp": "KURS",
846   "ID": "101954",
847   "Kod": "2007FKURS",
848   "LarosateID": -1,
849   "NivaInomStudieordningID": 3,
850   "Regelverk": {
851     "Regelvarden": [
852       {
853         "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
854         "Uid": "d3910ebc-87fc-11ec-a845-a8ad71444c99",

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855         "Varde": "true"
856     },
857     {
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859         "UId": "d390e7ab-87fc-11ec-a845-a8ad71444c99",
860         "Varde": "grupp.for.utsokning.forskarniva"
861     },
862     {
863         "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
864         "UId": "d3910ebd-87fc-11ec-a845-a8ad71444c99",
865         "Varde": "true"
866     },
867     {
868         "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
869         "UId": "d3910ebe-87fc-11ec-a845-a8ad71444c99",
870         "Varde": "true"
871     }
872 ],
873 "UId": "0a468d21-ec60-11e6-8a84-352cf9f6431e"
874 },
875 "Sorteringsordning": 3,
876 "StudieordningID": 1,
877 "TillfalleInomUtbildningstyper": [],
878 "UtbildningstyperInomUtbildningstyp": [
879     3,
880     4
881 ]
882 },
883 {
884     "AvserTillfalle": true,
885     "Benamning": {
886         "sv": "Kurstillf\u00e4lle, forskarniv\u00e5",
887         "en": "Course instance, Third-cycle"
888     },
889     "Beskrivning": {},
890     "Dolt": false,
891     "Giltighetsperiod": {},
892     "Grundtyp": "KURS",
893     "ID": "101955",
894     "Kod": "2007FKTF",
895     "LarosateID": -1,
896     "Regelverk": {
897         "Regelvarden": [
898             {
899                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
900                 "UId": "a6abbd1e-e80a-11e8-b1f1-65de97d74aa5",
901                 "Varde": "true"
902             },
903             {
904                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
905                 "UId": "a6abbd1d-e80a-11e8-b1f1-65de97d74aa5",

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906         "Varde": "grupp.for.utsokning.forskarniva"
907     }
908 ],
909     "UId": "c845e104-f0bc-11e7-b9b4-407caefe466f"
910 },
911     "Sorteringsordning": 50,
912     "StudieordningID": 1,
913     "TillfalleInomUtbildningstyper": [
914         101954
915     ],
916     "UtbildningstyperInomUtbildningstyp": []
917 },
918 {
919     "AvserTillfalle": false,
920     "Benamning": {
921         "sv": "\u00c4mne, forskarniv\u00e5",
922         "en": "Subject, Third-cycle"
923     },
924     "Beskrivning": {},
925     "Dolt": false,
926     "Giltighetsperiod": {},
927     "Grundtyp": "KURSPAKETERING",
928     "ID": "101956",
929     "Kod": "2007FA",
930     "LarosateID": -1,
931     "NivaInomStudieordningID": 3,
932     "Regelverk": {
933         "Regelvarden": [
934             {
935                 "Regelnamn": "commons.domain.regel.forvald.omfattning",
936                 "UId": "5431339d-ecf4-11ee-831e-9a115c0740fa",
937                 "Varde": "240"
938             },
939             {
940                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
941                 "UId": "5431339e-ecf4-11ee-831e-9a115c0740fa",
942                 "Varde": "grupp.for.utsokning.forskarniva"
943             },
944             {
945                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
946                 "UId": "543133a0-ecf4-11ee-831e-9a115c0740fa",
947                 "Varde": "true"
948             },
949             {
950                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
951                 "UId": "5431339f-ecf4-11ee-831e-9a115c0740fa",
952                 "Varde": "true"
953             }
954         ],
955         "UId": "4dccc624-ec60-11e6-8a84-352cf9f6431e"
956     },

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957     "Sorteringsordning": 6,
958     "StudieordningID": 1,
959     "TillfalleInomUtbildningstyper": [],
960     "UtbildningstyperInomUtbildningstyp": [
961         101952,
962         151503,
963         101375,
964         101954
965     ]
966 },
967 {
968     "AvserTillfalle": true,
969     "Benamning": {
970         "sv": "\u00c4mnestillf\u00e4lle, forskarniv\u00e5",
971         "en": "Subject instance, Third-cycle"
972     },
973     "Beskrivning": {},
974     "Dolt": false,
975     "Giltighetsperiod": {},
976     "Grundtyp": "KURSPAKETERING",
977     "ID": "101957",
978     "Kod": "2007FATF",
979     "LarosateID": -1,
980     "Regelverk": {
981         "Regelvarden": [
982             {
983                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
984                 "Uid": "50893ff9-4b7d-11ec-944c-5226fb2c461c",
985                 "Varde": "grupp.for.utsokning.forskarniva"
986             },
987             {
988                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
989                 "Uid": "5089b52a-4b7d-11ec-944c-5226fb2c461c",
990                 "Varde": "true"
991             }
992         ],
993         "Uid": "347544fd-2bf2-11e7-8421-d64931f94928"
994     },
995     "Sorteringsordning": 50,
996     "StudieordningID": 1,
997     "TillfalleInomUtbildningstyper": [
998         101956
999     ],
1000     "UtbildningstyperInomUtbildningstyp": [
1001         101953,
1002         101967,
1003         101952,
1004         138461,
1005         152632,
1006         101375,
1007         110915,

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1008         101954,
1009         101968,
1010         151504,
1011         101951,
1012         107510,
1013         101955,
1014         101377,
1015         151503,
1016         152631
1017     ]
1018 },
1019 {
1020     "AvserTillfalle": false,
1021     "Benamning": {
1022         "sv": "Individuellt utbytes\u00e5tagande, forskarniv\u00e5, utresande",
1023         "en": "Individual exchange load, outgoing third-cycle student"
1024     },
1025     "Beskrivning": {},
1026     "Dolt": false,
1027     "Giltighetsperiod": {},
1028     "Grundtyp": "KURS",
1029     "ID": "101958",
1030     "Kod": "2007FUAT",
1031     "LarosateID": -1,
1032     "NivaInomStudieordningID": 3,
1033     "Regelverk": {
1034         "Regelvarden": [
1035             {
1036                 "Regelnamn": "commons.domain.regel.individuell",
1037                 "Uid": "d54fe9e0-ee3d-11e8-9270-17395ad8480f",
1038                 "Varde": "true"
1039             },
1040             {
1041                 "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
1042                 "Uid": "d54fe9dd-ee3d-11e8-9270-17395ad8480f",
1043                 "Varde": "true"
1044             },
1045             {
1046                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1047                 "Uid": "d54fe9dc-ee3d-11e8-9270-17395ad8480f",
1048                 "Varde": "grupp.for.utsokning.forskarniva"
1049             },
1050             {
1051                 "Regelnamn": "commons.domain.regel.versionshanteras",
1052                 "Uid": "d54fe9df-ee3d-11e8-9270-17395ad8480f",
1053                 "Varde": "false"
1054             },
1055             {
1056                 "Regelnamn": "commons.domain.regel.resultat",
1057                 "Uid": "d54fe9de-ee3d-11e8-9270-17395ad8480f",
1058                 "Varde": "false"

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1059     }
1060   ],
1061   "Uid": "06449ba8-a75f-11e6-bc5d-3b8bbccc4a18"
1062 },
1063 "Sorteringsordning": 12,
1064 "StudieordningID": 1,
1065 "TillfalleInomUtbildningstyper": [],
1066 "UtbildningstyperInomUtbildningstyp": []
1067 },
1068 {
1069   "AvserTillfalle": true,
1070   "Benamning": {
1071     "sv": "Utbytestillf\u00e4lle, inresande",
1072     "en": "Exchange instance, incoming students"
1073   },
1074   "Beskrivning": {},
1075   "Dolt": false,
1076   "Giltighetsperiod": {},
1077   "Grundtyp": "KURSPAKETERING",
1078   "ID": "101966",
1079   "Kod": "1993UTFI",
1080   "LarosateID": -1,
1081   "Regelverk": {
1082     "Regelvarden": [
1083       {
1084         "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
1085         "Uid": "ceea0adb-17b5-11f1-8e84-bc7cdac0401f",
1086         "Varde": "true"
1087       },
1088       {
1089         "Regelnamn": "commons.domain.regel.ingar.i.grupp.inresande",
1090         "Uid": "cee9bcba-17b5-11f1-8e84-bc7cdac0401f",
1091         "Varde": "true"
1092       },
1093       {
1094         "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
1095         "Uid": "ceea0adc-17b5-11f1-8e84-bc7cdac0401f",
1096         "Varde": "true"
1097       }
1098     ],
1099     "Uid": "f14c33ac-a764-11e6-bc5d-3b8bbccc4a18"
1100   },
1101   "Sorteringsordning": 50,
1102   "StudieordningID": 2,
1103   "TillfalleInomUtbildningstyper": [
1104     101964
1105   ],
1106   "UtbildningstyperInomUtbildningstyp": [
1107     101374,
1108     52,
1109     101963

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1110     ]
1111 },
1112 {
1113     "AvserTillfalle": false,
1114     "Benamning": {
1115         "sv": "Kurs, forskarutbildning",
1116         "en": "Course, doctoral studies"
1117     },
1118     "Beskrivning": {},
1119     "Dolt": false,
1120     "Giltighetsperiod": {},
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1122     "ID": "101967",
1123     "Kod": "1993FKURS",
1124     "LarosateID": -1,
1125     "NivaInomStudieordningID": 5,
1126     "Regelverk": {
1127         "Regelvarden": [
1128             {
1129                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
1130                 "Uid": "58c9b121-e80a-11e8-b1f1-65de97d74aa5",
1131                 "Varde": "true"
1132             },
1133             {
1134                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1135                 "Uid": "58c9b122-e80a-11e8-b1f1-65de97d74aa5",
1136                 "Varde": "grupp.for.utsokning.forskarniva"
1137             }
1138         ],
1139         "Uid": "0f0f38cb-ec60-11e6-8a84-352cf9f6431e"
1140     },
1141     "Sorteringsordning": 3,
1142     "StudieordningID": 2,
1143     "TillfalleInomUtbildningstyper": [],
1144     "UtbildningstyperInomUtbildningstyp": []
1145 },
1146 {
1147     "AvserTillfalle": true,
1148     "Benamning": {
1149         "sv": "Kurstillf\u00e4lle, forskarutbildning",
1150         "en": "Course instance, doctoral studies"
1151     },
1152     "Beskrivning": {},
1153     "Dolt": false,
1154     "Giltighetsperiod": {},
1155     "Grundtyp": "KURS",
1156     "ID": "101968",
1157     "Kod": "1993FKTF",
1158     "LarosateID": -1,
1159     "Regelverk": {
1160         "Regelvarden": [

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1161     {
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1163         "Uid": "aacb305d-e80a-11e8-b1f1-65de97d74aa5",
1164         "Varde": "true"
1165     },
1166     {
1167         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1168         "Uid": "aacb305e-e80a-11e8-b1f1-65de97d74aa5",
1169         "Varde": "grupp.for.utsokning.forskarniva"
1170     }
1171 ],
1172 "Uid": "0bcbe850-f0bc-11e7-b9b4-407caefe466f"
1173 },
1174 "Sorteringsordning": 50,
1175 "StudieordningID": 2,
1176 "TillfalleInomUtbildningstyper": [
1177     101967
1178 ],
1179 "UtbildningstyperInomUtbildningstyp": []
1180 },
1181 {
1182     "AvserTillfalle": false,
1183     "Benamning": {
1184         "sv": "\u00c4mne, forskarutbildning",
1185         "en": "Subject, doctoral studies"
1186     },
1187     "Beskrivning": {},
1188     "Dolt": false,
1189     "Giltighetsperiod": {},
1190     "Grundtyp": "KURSPAKETERING",
1191     "ID": "101969",
1192     "Kod": "1993FA",
1193     "LarosateID": -1,
1194     "NivaInomStudieordningID": 5,
1195     "Regelverk": {
1196         "Regelvarden": [
1197             {
1198                 "Regelnamn": "commons.domain.regel.forvald.omfattning",
1199                 "Uid": "24c93335-e80b-11e8-b1f1-65de97d74aa5",
1200                 "Varde": "240"
1201             },
1202             {
1203                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1204                 "Uid": "24c93336-e80b-11e8-b1f1-65de97d74aa5",
1205                 "Varde": "grupp.for.utsokning.forskarniva"
1206             },
1207             {
1208                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
1209                 "Uid": "24c93337-e80b-11e8-b1f1-65de97d74aa5",
1210                 "Varde": "true"
1211             }

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1212     ],
1213     "UId": "558eb4e2-ec60-11e6-8a84-352cf9f6431e"
1214 },
1215 "Sorteringsordning": 6,
1216 "StudieordningID": 2,
1217 "TillfalleInomUtbdningstyper": [],
1218 "UtbdningstyperInomUtbdningstyp": []
1219 },
1220 {
1221     "AvserTillfalle": true,
1222     "Benamning": {
1223         "sv": "\u00c4mnestillf\u00e4lle, forskarutbildning",
1224         "en": "Subject instance, doctoral studies"
1225     },
1226     "Beskrivning": {},
1227     "Dolt": false,
1228     "Giltighetsperiod": {},
1229     "Grundtyp": "KURSPAKETERING",
1230     "ID": "101970",
1231     "Kod": "1993FATF",
1232     "LarosateID": -1,
1233     "Regelverk": {
1234         "Regelvarden": [
1235             {
1236                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1237                 "UId": "1fa82eed-e80b-11e8-b1f1-65de97d74aa5",
1238                 "Varde": "grupp.for.utsokning.forskarniva"
1239             },
1240             {
1241                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
1242                 "UId": "1fa82eec-e80b-11e8-b1f1-65de97d74aa5",
1243                 "Varde": "true"
1244             }
1245         ],
1246         "UId": "1a0ee0cb-f0bc-11e7-b9b4-407caefe466f"
1247     },
1248     "Sorteringsordning": 50,
1249     "StudieordningID": 2,
1250     "TillfalleInomUtbdningstyper": [
1251         101969
1252     ],
1253     "UtbdningstyperInomUtbdningstyp": [
1254         101953,
1255         101968,
1256         101951,
1257         107510,
1258         101377,
1259         101955
1260     ]
1261 },
1262 {

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1263     "AvserTillfalle": false,
1264     "Benamning": {
1265         "sv": "Program",
1266         "en": "Programme"
1267     },
1268     "Beskrivning": {},
1269     "Dolt": false,
1270     "Giltighetsperiod": {},
1271     "Grundtyp": "KURSPAKETERING",
1272     "ID": "101971",
1273     "Kod": "FUPPRG",
1274     "LarosateID": -1,
1275     "Regelverk": {
1276         "Regelvarden": [
1277             {
1278                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1279                 "Uid": "103685d1-e0df-11ec-bb44-ad608ddd4f32",
1280                 "Varde": "grupp.for.utsokning.forutbildning"
1281             },
1282             {
1283                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
1284                 "Uid": "103685d4-e0df-11ec-bb44-ad608ddd4f32",
1285                 "Varde": "true"
1286             },
1287             {
1288                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
1289                 "Uid": "103685d3-e0df-11ec-bb44-ad608ddd4f32",
1290                 "Varde": "true"
1291             },
1292             {
1293                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
1294                 "Uid": "103685d2-e0df-11ec-bb44-ad608ddd4f32",
1295                 "Varde": "true"
1296             }
1297         ],
1298         "Uid": "d1417ad9-a76a-11e6-bc5d-3b8bbccc4a18"
1299     },
1300     "Sorteringsordning": 4,
1301     "StudieordningID": 3,
1302     "TillfalleInomUtbildningstyper": [],
1303     "UtbildningstyperInomUtbildningstyp": [
1304         101973,
1305         22,
1306         101378
1307     ]
1308 },
1309 {
1310     "AvserTillfalle": true,
1311     "Benamning": {
1312         "sv": "Programtillf\u00e4lle",
1313         "en": "Programme instance"

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1314 },
1315 "Beskrivning": {},
1316 "Dolt": false,
1317 "Giltighetsperiod": {},
1318 "Grundtyp": "KURSPAKETERING",
1319 "ID": "101972",
1320 "Kod": "FUPPRGTF",
1321 "LarosateID": -1,
1322 "Regelverk": {
1323   "Regelvarden": [
1324     {
1325       "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
1326       "Uid": "a24cdb13-e4b3-11f0-b251-01189c9f465b",
1327       "Varde": "true"
1328     },
1329     {
1330       "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1331       "Uid": "a24cdb14-e4b3-11f0-b251-01189c9f465b",
1332       "Varde": "grupp.for.utsokning.forutbildning"
1333     },
1334     {
1335       "Regelnamn": "commons.domain.regel.atgard_vid_orimligt_omfattningsvarde",
1336       "Uid": "a24cdb11-e4b3-11f0-b251-01189c9f465b",
1337       "Varde": "varning"
1338     },
1339     {
1340       "Regelnamn": "commons.domain.regel.kan.utannonseras",
1341       "Uid": "a24cdb12-e4b3-11f0-b251-01189c9f465b",
1342       "Varde": "true"
1343     },
1344     {
1345       "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
1346       "Uid": "a24cdb10-e4b3-11f0-b251-01189c9f465b",
1347       "Varde": "true"
1348     }
1349   ],
1350   "Uid": "e67221cf-a76a-11e6-bc5d-3b8bbccc4a18"
1351 },
1352 "Sorteringsordning": 50,
1353 "StudieordningID": 3,
1354 "TillfalleInomUtbildningstyper": [
1355   101971
1356 ],
1357 "UtbildningstyperInomUtbildningstyp": [
1358   101973,
1359   52,
1360   22,
1361   101382,
1362   101378,
1363   148155,
1364   164114,

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1365         101974,
1366         164115
1367     ]
1368 },
1369 {
1370     "AvserTillfalle": false,
1371     "Benamning": {
1372         "sv": "Kurs, avancerad niv\u00e5",
1373         "en": "Course, Second-cycle"
1374     },
1375     "Beskrivning": {},
1376     "Dolt": false,
1377     "Giltighetsperiod": {},
1378     "Grundtyp": "KURS",
1379     "ID": "101993",
1380     "Kod": "UPHPAKURS",
1381     "LarosateID": -1,
1382     "NivaInomStudieordningID": 2,
1383     "Regelverk": {
1384         "Regelvarden": [
1385             {
1386                 "Regelnamn": "commons.domain.regel.avbrottsregel",
1387                 "Uid": "009fd936-e0de-11ec-bb44-ad608ddd4f32",
1388                 "Varde": "20"
1389             },
1390             {
1391                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
1392                 "Uid": "009fd935-e0de-11ec-bb44-ad608ddd4f32",
1393                 "Varde": "true"
1394             },
1395             {
1396                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
1397                 "Uid": "009fd938-e0de-11ec-bb44-ad608ddd4f32",
1398                 "Varde": "true"
1399             },
1400             {
1401                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
1402                 "Uid": "009fd937-e0de-11ec-bb44-ad608ddd4f32",
1403                 "Varde": "true"
1404             },
1405             {
1406                 "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdraagsutbildning",
1407                 "Uid": "009fd934-e0de-11ec-bb44-ad608ddd4f32",
1408                 "Varde": "true"
1409             },
1410             {
1411                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1412                 "Uid": "009fd933-e0de-11ec-bb44-ad608ddd4f32",
1413                 "Varde": "grupp.for.utsokning.uppdraagsutbildning"
1414             }
1415         ],

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1416         "UId": "310b3370-a801-11e6-b02f-d0cc883a47fa"
1417     },
1418     "Sorteringsordning": 2,
1419     "StudieordningID": 17,
1420     "TillfalleInomUtbildningstyper": [],
1421     "UtbildningstyperInomUtbildningstyp": [
1422         101990,
1423         101991
1424     ]
1425 },
1426 {
1427     "AvserTillfalle": true,
1428     "Benamning": {
1429         "sv": "Kurstillf\u00e4lle",
1430         "en": "Course instance"
1431     },
1432     "Beskrivning": {},
1433     "Dolt": false,
1434     "Giltighetsperiod": {},
1435     "Grundtyp": "KURS",
1436     "ID": "101994",
1437     "Kod": "UPHPKTF",
1438     "LarosateID": -1,
1439     "Regelverk": {
1440         "Regelvarden": [
1441             {
1442                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
1443                 "UId": "95b787c2-e80a-11e8-b1f1-65de97d74aa5",
1444                 "Varde": "true"
1445             },
1446             {
1447                 "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdraagsutbildning",
1448                 "UId": "95b787c5-e80a-11e8-b1f1-65de97d74aa5",
1449                 "Varde": "true"
1450             },
1451             {
1452                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1453                 "UId": "95b787c4-e80a-11e8-b1f1-65de97d74aa5",
1454                 "Varde": "grupp.for.utsokning.uppdraagsutbildning"
1455             },
1456             {
1457                 "Regelnamn": "commons.domain.regel.kan.utannonseras",
1458                 "UId": "95b787c3-e80a-11e8-b1f1-65de97d74aa5",
1459                 "Varde": "true"
1460             }
1461         ],
1462         "UId": "005f8b63-4c22-11e7-8c70-788c557b416a"
1463     },
1464     "Sorteringsordning": 50,
1465     "StudieordningID": 17,
1466     "TillfalleInomUtbildningstyper": [

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1467         101993,
1468         101992
1469     ],
1470     "UtbildningstyperInomUtbildningstyp": []
1471 },
1472 {
1473     "AvserTillfalle": false,
1474     "Benamning": {
1475         "sv": "Inriktning",
1476         "en": "Specialisation"
1477     },
1478     "Beskrivning": {},
1479     "Dolt": false,
1480     "Giltighetsperiod": {},
1481     "Grundtyp": "KURSPAKETERING",
1482     "ID": "101995",
1483     "Kod": "UPHPINR",
1484     "LarosateID": -1,
1485     "Regelverk": {
1486         "Regelvarden": [
1487             {
1488                 "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdraagsutbildning",
1489                 "Uid": "165fbc81-e80a-11e8-b1f1-65de97d74aa5",
1490                 "Varde": "true"
1491             },
1492             {
1493                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
1494                 "Uid": "165fbc7f-e80a-11e8-b1f1-65de97d74aa5",
1495                 "Varde": "true"
1496             },
1497             {
1498                 "Regelnamn": "commons.domain.regel.sjalvstandig",
1499                 "Uid": "165fbc80-e80a-11e8-b1f1-65de97d74aa5",
1500                 "Varde": "false"
1501             },
1502             {
1503                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1504                 "Uid": "165fbc7e-e80a-11e8-b1f1-65de97d74aa5",
1505                 "Varde": "grupp.for.utsokning.uppdraagsutbildning"
1506             }
1507         ],
1508         "Uid": "11b7914a-a803-11e6-b02f-d0cc883a47fa"
1509     },
1510     "Sorteringsordning": 50,
1511     "StudieordningID": 17,
1512     "TillfalleInomUtbildningstyper": [],
1513     "UtbildningstyperInomUtbildningstyp": [
1514         101993,
1515         101992
1516     ]
1517 },

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1518     {
1519         "AvserTillfalle": true,
1520         "Benamning": {
1521             "sv": "Inriktningstillf\u00e4lle",
1522             "en": "Specialisation instance"
1523         },
1524         "Beskrivning": {},
1525         "Dolt": false,
1526         "Giltighetsperiod": {},
1527         "Grundtyp": "KURSPAKETERING",
1528         "ID": "101996",
1529         "Kod": "UPHPINRTF",
1530         "LarosateID": -1,
1531         "Regelverk": {
1532             "Regelvarden": [
1533                 {
1534                     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
1535                     "Uid": "27d2e6e0-e80a-11e8-b1f1-65de97d74aa5",
1536                     "Varde": "true"
1537                 },
1538                 {
1539                     "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdraagsutbildning",
1540                     "Uid": "27d2e6df-e80a-11e8-b1f1-65de97d74aa5",
1541                     "Varde": "true"
1542                 },
1543                 {
1544                     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1545                     "Uid": "27d2e6de-e80a-11e8-b1f1-65de97d74aa5",
1546                     "Varde": "grupp.for.utsokning.uppdraagsutbildning"
1547                 }
1548             ],
1549             "Uid": "4de604d8-8d66-11e7-ab6f-ced203c74a20"
1550         },
1551         "Sorteringsordning": 50,
1552         "StudieordningID": 17,
1553         "TillfalleInomUtbildningstyper": [
1554             101995
1555         ],
1556         "UtbildningstyperInomUtbildningstyp": [
1557             101993,
1558             101992,
1559             101994
1560         ]
1561     },
1562     {
1563         "AvserTillfalle": false,
1564         "Benamning": {
1565             "sv": "Program",
1566             "en": "Programme"
1567         },
1568         "Beskrivning": {},

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1569     "Dolt": false,
1570     "Giltighetsperiod": {},
1571     "Grundtyp": "KURSPAKETERING",
1572     "ID": "101998",
1573     "Kod": "UPHPPRG",
1574     "LarosateID": -1,
1575     "Regelverk": {
1576         "Regelvarden": [
1577             {
1578                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
1579                 "Uid": "5ed3e84f-e0de-11ec-bb44-ad608ddd4f32",
1580                 "Varde": "true"
1581             },
1582             {
1583                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1584                 "Uid": "5ed3e84d-e0de-11ec-bb44-ad608ddd4f32",
1585                 "Varde": "grupp.for.utsokning.uppdraagsutbildning"
1586             },
1587             {
1588                 "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdraagsutbildning",
1589                 "Uid": "5ed3e84e-e0de-11ec-bb44-ad608ddd4f32",
1590                 "Varde": "true"
1591             },
1592             {
1593                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
1594                 "Uid": "5ed3e850-e0de-11ec-bb44-ad608ddd4f32",
1595                 "Varde": "true"
1596             }
1597         ],
1598         "Uid": "bc5d54af-ec5f-11e6-8a84-352cf9f6431e"
1599     },
1600     "Sorteringsordning": 4,
1601     "StudieordningID": 17,
1602     "TillfalleInomUtbildningstyper": [],
1603     "UtbildningstyperInomUtbildningstyp": [
1604         101993,
1605         101992,
1606         101995
1607     ]
1608 },
1609 {
1610     "AvserTillfalle": true,
1611     "Benamning": {
1612         "sv": "Programtillf\u00e4lle",
1613         "en": "Programme instance"
1614     },
1615     "Beskrivning": {},
1616     "Dolt": false,
1617     "Giltighetsperiod": {},
1618     "Grundtyp": "KURSPAKETERING",
1619     "ID": "101999",

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1620     "Kod": "UPHPPRGTF",
1621     "LarosateID": -1,
1622     "Regelverk": {
1623         "Regelvarden": [
1624             {
1625                 "Regelnamn": "commons.domain.regel.atgard_vid_orimligt_omfattningsvarde",
1626                 "Uid": "6fb1651f-b804-11ed-8cb2-324fb1124949",
1627                 "Varde": "varning"
1628             },
1629             {
1630                 "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdraagsutbildning",
1631                 "Uid": "6fb1651c-b804-11ed-8cb2-324fb1124949",
1632                 "Varde": "true"
1633             },
1634             {
1635                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
1636                 "Uid": "6fb1651d-b804-11ed-8cb2-324fb1124949",
1637                 "Varde": "true"
1638             },
1639             {
1640                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1641                 "Uid": "6fb1651b-b804-11ed-8cb2-324fb1124949",
1642                 "Varde": "grupp.for.utsokning.uppdraagsutbildning"
1643             },
1644             {
1645                 "Regelnamn": "commons.domain.regel.kan.utannonseras",
1646                 "Uid": "6fb1651e-b804-11ed-8cb2-324fb1124949",
1647                 "Varde": "true"
1648             }
1649         ],
1650         "Uid": "005dddab-4c22-11e7-8c70-788c557b416a"
1651     },
1652     "Sorteringsordning": 50,
1653     "StudieordningID": 17,
1654     "TillfalleInomUtbildningstyper": [
1655         101998
1656     ],
1657     "UtbildningstyperInomUtbildningstyp": [
1658         101993,
1659         101996,
1660         101992,
1661         101994,
1662         101995
1663     ]
1664 },
1665 {
1666     "AvserTillfalle": false,
1667     "Benamning": {
1668         "sv": "Kurs",
1669         "en": "Course"
1670     },

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1671     "Beskrivning": {},
1672     "Dolt": false,
1673     "Giltighetsperiod": {},
1674     "Grundtyp": "KURS",
1675     "ID": "102000",
1676     "Kod": "UPTKURS",
1677     "LarosateID": -1,
1678     "Regelverk": {
1679         "Regelvarden": [],
1680         "Uid": "60bf6ffe-a81f-11e6-b02f-d0cc883a47fa"
1681     },
1682     "Sorteringsordning": 1,
1683     "StudieordningID": 9,
1684     "TillfalleInomUtbildningstyper": [],
1685     "UtbildningstyperInomUtbildningstyp": [
1686         102001
1687     ]
1688 },
1689 {
1690     "AvserTillfalle": true,
1691     "Benamning": {
1692         "sv": "Kurstillf\u00e4lle",
1693         "en": "Course instance"
1694     },
1695     "Beskrivning": {},
1696     "Dolt": false,
1697     "Giltighetsperiod": {},
1698     "Grundtyp": "KURS",
1699     "ID": "102008",
1700     "Kod": "UPVKTF",
1701     "LarosateID": -1,
1702     "Regelverk": {
1703         "Regelvarden": [
1704             {
1705                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
1706                 "Uid": "9ec00008-e80a-11e8-b1f1-65de97d74aa5",
1707                 "Varde": "true"
1708             },
1709             {
1710                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1711                 "Uid": "9ec00009-e80a-11e8-b1f1-65de97d74aa5",
1712                 "Varde": "grupp.for.utsokning.uppdagsutbildning"
1713             },
1714             {
1715                 "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdagsutbildning",
1716                 "Uid": "9ec00007-e80a-11e8-b1f1-65de97d74aa5",
1717                 "Varde": "true"
1718             }
1719         ],
1720         "Uid": "6f0b0b5c-af18-11e7-8754-a9e730464be6"
1721     },

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1722     "Sorteringsordning": 50,
1723     "StudieordningID": 18,
1724     "TillfalleInomUtbildningstyper": [
1725         102006
1726     ],
1727     "UtbildningstyperInomUtbildningstyp": []
1728 },
1729 {
1730     "AvserTillfalle": false,
1731     "Benamning": {
1732         "sv": "Kurs",
1733         "en": "Course"
1734     },
1735     "Beskrivning": {},
1736     "Dolt": false,
1737     "Giltighetsperiod": {},
1738     "Grundtyp": "KURS",
1739     "ID": "102009",
1740     "Kod": "FUVKURS",
1741     "LarosateID": -1,
1742     "Regelverk": {
1743         "Regelvarden": [
1744             {
1745                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
1746                 "Uid": "9e8c030c-e0de-11ec-bb44-ad608ddd4f32",
1747                 "Varde": "true"
1748             },
1749             {
1750                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
1751                 "Uid": "9e8c030e-e0de-11ec-bb44-ad608ddd4f32",
1752                 "Varde": "true"
1753             },
1754             {
1755                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1756                 "Uid": "9e8c030a-e0de-11ec-bb44-ad608ddd4f32",
1757                 "Varde": "grupp.for.utsokning.forutbildning"
1758             },
1759             {
1760                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
1761                 "Uid": "9e8c030f-e0de-11ec-bb44-ad608ddd4f32",
1762                 "Varde": "true"
1763             },
1764             {
1765                 "Regelnamn": "commons.domain.regel.avbrottsregel",
1766                 "Uid": "9e8c030d-e0de-11ec-bb44-ad608ddd4f32",
1767                 "Varde": "20"
1768             },
1769             {
1770                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
1771                 "Uid": "9e8c030b-e0de-11ec-bb44-ad608ddd4f32",
1772                 "Varde": "true"

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1773     }
1774   ],
1775   "UId": "488fcae8-ec5f-11e6-8a84-352cf9f6431e"
1776 },
1777 "Sorteringsordning": 1,
1778 "StudieordningID": 4,
1779 "TillfalleInomUtbildningstyper": [],
1780 "UtbildningstyperInomUtbildningstyp": [
1781   102010
1782 ]
1783 },
1784 {
1785   "AvserTillfalle": false,
1786   "Benamning": {
1787     "sv": "Modul",
1788     "en": "Module"
1789   },
1790   "Beskrivning": {},
1791   "Dolt": false,
1792   "Giltighetsperiod": {},
1793   "Grundtyp": "MODUL",
1794   "ID": "102010",
1795   "Kod": "FUVMOD",
1796   "LarosateID": -1,
1797   "Regelverk": {
1798     "Regelvarden": [
1799       {
1800         "Regelnamn": "commons.domain.regel.sjalvstandig",
1801         "UId": "bb63d928-e80a-11e8-b1f1-65de97d74aa5",
1802         "Varde": "false"
1803       },
1804       {
1805         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1806         "UId": "bb63d927-e80a-11e8-b1f1-65de97d74aa5",
1807         "Varde": "grupp.for.utsokning.forutbildning"
1808       },
1809       {
1810         "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
1811         "UId": "bb63d925-e80a-11e8-b1f1-65de97d74aa5",
1812         "Varde": "true"
1813       },
1814       {
1815         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
1816         "UId": "bb63d926-e80a-11e8-b1f1-65de97d74aa5",
1817         "Varde": "true"
1818       },
1819       {
1820         "Regelnamn": "commons.domain.regel.versionshanteras",
1821         "UId": "bb63d924-e80a-11e8-b1f1-65de97d74aa5",
1822         "Varde": "false"
1823       }
1824     ]
1825   }
1826 }

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1824     ],
1825     "UId": "0215985a-a823-11e6-b02f-d0cc883a47fa"
1826   },
1827   "Sorteringsordning": 50,
1828   "StudieordningID": 4,
1829   "TillfalleInomUtbildningstyper": [],
1830   "UtbildningstyperInomUtbildningstyp": []
1831 },
1832 {
1833   "AvserTillfalle": true,
1834   "Benamning": {
1835     "sv": "Kurstillf\u00e4lle",
1836     "en": "Course instance"
1837   },
1838   "Beskrivning": {},
1839   "Dolt": false,
1840   "Giltighetsperiod": {},
1841   "Grundtyp": "KURS",
1842   "ID": "102011",
1843   "Kod": "FUVKTF",
1844   "LarosateID": -1,
1845   "Regelverk": {
1846     "Regelvarden": [
1847       {
1848         "Regelnamn": "commons.domain.regel.kan.utannonseras",
1849         "UId": "77201bab-e80a-11e8-b1f1-65de97d74aa5",
1850         "Varde": "true"
1851       },
1852       {
1853         "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
1854         "UId": "77201baa-e80a-11e8-b1f1-65de97d74aa5",
1855         "Varde": "true"
1856       },
1857       {
1858         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
1859         "UId": "77201ba8-e80a-11e8-b1f1-65de97d74aa5",
1860         "Varde": "true"
1861       },
1862       {
1863         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1864         "UId": "77201ba9-e80a-11e8-b1f1-65de97d74aa5",
1865         "Varde": "grupp.for.utsokning.forutbildning"
1866       }
1867     ],
1868     "UId": "005ec80f-4c22-11e7-8c70-788c557b416a"
1869   },
1870   "Sorteringsordning": 50,
1871   "StudieordningID": 4,
1872   "TillfalleInomUtbildningstyper": [
1873     102009
1874   ],

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1875     "UtbildningstyperInomUtbildningstyp": []
1876 },
1877 {
1878     "AvserTillfalle": false,
1879     "Benamning": {
1880         "sv": "Kurs",
1881         "en": "Course"
1882     },
1883     "Beskrivning": {},
1884     "Dolt": false,
1885     "Giltighetsperiod": {},
1886     "Grundtyp": "KURS",
1887     "ID": "102012",
1888     "Kod": "KYKURS",
1889     "LarosateID": -1,
1890     "Regelverk": {
1891         "Regelvarden": [],
1892         "Uid": "8986f48b-ec5f-11e6-8a84-352cf9f6431e"
1893     },
1894     "Sorteringsordning": 1,
1895     "StudieordningID": 13,
1896     "TillfalleInomUtbildningstyper": [],
1897     "UtbildningstyperInomUtbildningstyp": [
1898         102013
1899     ]
1900 },
1901 {
1902     "AvserTillfalle": false,
1903     "Benamning": {
1904         "sv": "Modul",
1905         "en": "Module"
1906     },
1907     "Beskrivning": {},
1908     "Dolt": false,
1909     "Giltighetsperiod": {},
1910     "Grundtyp": "MODUL",
1911     "ID": "102013",
1912     "Kod": "KYMODO",
1913     "LarosateID": -1,
1914     "Regelverk": {
1915         "Regelvarden": [
1916             {
1917                 "Regelnamn": "commons.domain.regel.sjalvstandig",
1918                 "Uid": "be23205d-e80a-11e8-b1f1-65de97d74aa5",
1919                 "Varde": "false"
1920             },
1921             {
1922                 "Regelnamn": "commons.domain.regel.versionshanteras",
1923                 "Uid": "be23205e-e80a-11e8-b1f1-65de97d74aa5",
1924                 "Varde": "false"
1925             }
1926         ]
1927     }
1928 }

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1926     ],
1927     "UId": "95ec339a-a825-11e6-b02f-d0cc883a47fa"
1928 },
1929 "Sorteringsordning": 50,
1930 "StudieordningID": 13,
1931 "TillfalleInomUtbdningstyper": [],
1932 "UtbdningstyperInomUtbdningstyp": []
1933 },
1934 {
1935     "AvserTillfalle": true,
1936     "Benamning": {
1937         "sv": "Kurstillf\u00e4lle",
1938         "en": "Course instance"
1939     },
1940     "Beskrivning": {},
1941     "Dolt": false,
1942     "Giltighetsperiod": {},
1943     "Grundtyp": "KURS",
1944     "ID": "102014",
1945     "Kod": "KYKTF",
1946     "LarosateID": -1,
1947     "Regelverk": {
1948         "Regelvarden": [],
1949         "UId": "7c3eafcf-e80a-11e8-b1f1-65de97d74aa5"
1950     },
1951     "Sorteringsordning": 50,
1952     "StudieordningID": 13,
1953     "TillfalleInomUtbdningstyper": [
1954         102012
1955     ],
1956     "UtbdningstyperInomUtbdningstyp": []
1957 },
1958 {
1959     "AvserTillfalle": false,
1960     "Benamning": {
1961         "sv": "Kurs, grundniv\u00e5 (inkl. attribut fr\u00e5n 1993 \u00e5rs studieordning)",
1962         "en": "Course, First-cycle (including attributes from the study regulation of 1993)"
1963     },
1964     "Beskrivning": {
1965         "sv": "Anv\u00e4nds endast f\u00f6r konverterad information."
1966     },
1967     "Dolt": false,
1968     "Giltighetsperiod": {},
1969     "Grundtyp": "KURS",
1970     "ID": "105630",
1971     "Kod": "0793GKURS",
1972     "LarosateID": -1,
1973     "NivaInomStudieordningID": 1,
1974     "Regelverk": {
1975         "Regelvarden": [
1976             {

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1977     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1978     "UId": "720d29c4-e979-11e8-9df7-dac5c1184137",
1979     "Varde": "grupp.for.utsokning.grundavanceradniva"
1980 },
1981 {
1982     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
1983     "UId": "720d29c3-e979-11e8-9df7-dac5c1184137",
1984     "Varde": "true"
1985 },
1986 {
1987     "Regelnamn": "commons.domain.regel.avbrottsregel",
1988     "UId": "720d29c2-e979-11e8-9df7-dac5c1184137",
1989     "Varde": "20"
1990 }
1991 ],
1992 "UId": "eeb2ffd3-1529-11e7-a285-7b8b33c24a2b"
1993 },
1994 "Sorteringsordning": 50,
1995 "StudieordningID": 1,
1996 "TillfalleInomUtbildningstyper": [],
1997 "UtbildningstyperInomUtbildningstyp": [
1998     4,
1999     101371
2000 ]
2001 },
2002 {
2003     "AvserTillfalle": false,
2004     "Benamning": {
2005         "sv": "Kurs, avancerad niv\u00e5 (inkl. attribut fr\u00e5n 1993 \u00e5rs studieordning)",
2006         "en": "Course, Second-cycle (including attributes from the study regulation of 1993)"
2007     },
2008     "Beskrivning": {
2009         "sv": "Anv\u00e4nds endast f\u00f6r konverterad information."
2010     },
2011     "Dolt": false,
2012     "Giltighetsperiod": {},
2013     "Grundtyp": "KURS",
2014     "ID": "105631",
2015     "Kod": "0793AKURS",
2016     "LarosateID": -1,
2017     "NivaInomStudieordningID": 2,
2018     "Regelverk": {
2019         "Regelvarden": [
2020             {
2021                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2022                 "UId": "f543b5ba-e979-11e8-9df7-dac5c1184137",
2023                 "Varde": "true"
2024             },
2025             {
2026                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2027                 "UId": "f543b5bb-e979-11e8-9df7-dac5c1184137",

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2028         "Varde": "grupp.for.utsokning.grundavanceradniva"
2029     },
2030     {
2031         "Regelnamn": "commons.domain.regel.avbrottsregel",
2032         "Uid": "f543b5b9-e979-11e8-9df7-dac5c1184137",
2033         "Varde": "20"
2034     }
2035 ],
2036 "Uid": "56099ddc-152a-11e7-a285-7b8b33c24a2b"
2037 },
2038 "Sorteringsordning": 50,
2039 "StudieordningID": 1,
2040 "TillfalleInomUtbildningstyper": [],
2041 "UtbildningstyperInomUtbildningstyp": [
2042     4,
2043     101371
2044 ]
2045 },
2046 {
2047     "AvserTillfalle": true,
2048     "Benamning": {
2049         "sv": "Kurstillf\u00e4lle (inkl. attribut fr\u00e5n 1993 \u00e5rs studieordning)",
2050         "en": "Course instance (including attributes from the study regulation of 1993)"
2051     },
2052     "Beskrivning": {
2053         "sv": "Anv\u00e4nds endast f\u00f6r konverterad information."
2054     },
2055     "Dolt": false,
2056     "Giltighetsperiod": {},
2057     "Grundtyp": "KURS",
2058     "ID": "105632",
2059     "Kod": "0793KTF",
2060     "LarosateID": -1,
2061     "Regelverk": {
2062         "Regelvarden": [
2063             {
2064                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2065                 "Uid": "8695db9b-e97a-11e8-9df7-dac5c1184137",
2066                 "Varde": "true"
2067             },
2068             {
2069                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2070                 "Uid": "8695db9c-e97a-11e8-9df7-dac5c1184137",
2071                 "Varde": "grupp.for.utsokning.grundavanceradniva"
2072             }
2073         ],
2074         "Uid": "64be0104-152b-11e7-a285-7b8b33c24a2b"
2075     },
2076     "Sorteringsordning": 50,
2077     "StudieordningID": 1,
2078     "TillfalleInomUtbildningstyper": [

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2079         105630,
2080         105631
2081     ],
2082     "UtbildningstyperInomUtbildningstyp": [],
2083 },
2084 {
2085     "AvserTillfalle": false,
2086     "Benamning": {
2087         "sv": "Individuell kurs, avancerad niv\u00e5, inresande",
2088         "en": "Individual second-cycle course, incoming student"
2089     },
2090     "Beskrivning": {},
2091     "Dolt": false,
2092     "Giltighetsperiod": {},
2093     "Grundtyp": "KURS",
2094     "ID": "106390",
2095     "Kod": "2007AIKURS",
2096     "LarosateID": -1,
2097     "NivaInomStudieordningID": 2,
2098     "Regelverk": {
2099         "Regelvarden": [
2100             {
2101                 "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
2102                 "Uid": "0088e806-ee40-11e8-9270-17395ad8480f",
2103                 "Varde": "true"
2104             },
2105             {
2106                 "Regelnamn": "commons.domain.regel.versionshanteras",
2107                 "Uid": "0088e805-ee40-11e8-9270-17395ad8480f",
2108                 "Varde": "false"
2109             },
2110             {
2111                 "Regelnamn": "commons.domain.regel.individuell",
2112                 "Uid": "0088e808-ee40-11e8-9270-17395ad8480f",
2113                 "Varde": "true"
2114             },
2115             {
2116                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2117                 "Uid": "0088e807-ee40-11e8-9270-17395ad8480f",
2118                 "Varde": "grupp.for.utsokning.grundavanceradniva"
2119             },
2120             {
2121                 "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
2122                 "Uid": "0088e804-ee40-11e8-9270-17395ad8480f",
2123                 "Varde": "true"
2124             },
2125             {
2126                 "Regelnamn": "commons.domain.regel.avbrottsregel",
2127                 "Uid": "0088e809-ee40-11e8-9270-17395ad8480f",
2128                 "Varde": "20"
2129             }

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2130     ],
2131     "UId": "7d95f13b-36f7-11e7-a3b7-78a0d3b54280"
2132 },
2133 "Sorteringsordning": 11,
2134 "StudieordningID": 1,
2135 "TillfalleInomUtbildningstyper": [],
2136 "UtbildningstyperInomUtbildningstyp": [
2137     3,
2138     4
2139 ]
2140 },
2141 {
2142     "AvserTillfalle": true,
2143     "Benamning": {
2144         "sv": "Individuellt kurstillf\u00e4lle, forskarniv\u00e5",
2145         "en": "Individual course instance, Third-cycle"
2146     },
2147     "Beskrivning": {},
2148     "Dolt": false,
2149     "Giltighetsperiod": {},
2150     "Grundtyp": "KURS",
2151     "ID": "107510",
2152     "Kod": "2007FIKTF",
2153     "LarosateID": -1,
2154     "Regelverk": {
2155         "Regelvarden": [
2156             {
2157                 "Regelnamn": "commons.domain.regel.individuell",
2158                 "UId": "f0f0e941-e809-11e8-b1f1-65de97d74aa5",
2159                 "Varde": "true"
2160             },
2161             {
2162                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
2163                 "UId": "f0f0e940-e809-11e8-b1f1-65de97d74aa5",
2164                 "Varde": "true"
2165             },
2166             {
2167                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
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2169                 "Varde": "grupp.for.utsokning.forskarniva"
2170             }
2171         ],
2172         "UId": "c9dffc2c-4773-11e7-90e5-0ce8b6914937"
2173     },
2174     "Sorteringsordning": 50,
2175     "StudieordningID": 1,
2176     "TillfalleInomUtbildningstyper": [
2177         101954
2178     ],
2179     "UtbildningstyperInomUtbildningstyp": []
2180 },

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2183     "Benamning": {
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2185         "en": "Programme (including attributes from the study regulation of 1993)"
2186     },
2187     "Beskrivning": {
2188         "sv": "Anv\u00e4nds endast f\u00f6r konverterad information."
2189     },
2190     "Dolt": false,
2191     "Giltighetsperiod": {},
2192     "Grundtyp": "KURSPAKETERING",
2193     "ID": "107524",
2194     "Kod": "0793PRG",
2195     "LarosateID": -1,
2196     "Regelverk": {
2197         "Regelvarden": [
2198             {
2199                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2200                 "UId": "1fff915d-e978-11e8-9df7-dac5c1184137",
2201                 "Varde": "grupp.for.utsokning.grundavanceradniva"
2202             },
2203             {
2204                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2205                 "UId": "1fff915c-e978-11e8-9df7-dac5c1184137",
2206                 "Varde": "true"
2207             }
2208         ],
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2210     },
2211     "Sorteringsordning": 17,
2212     "StudieordningID": 1,
2213     "TillfalleInomUtbildningstyper": [],
2214     "UtbildningstyperInomUtbildningstyp": [
2215         101270,
2216         101960
2217     ]
2218 },
2219 {
2220     "AvserTillfalle": true,
2221     "Benamning": {
2222         "sv": "Programtillf\u00e4lle (inkl. attribut fr\u00e5n 1993 \u00e5rs studieordning)",
2223         "en": "Programme instance (including attributes from the study regulation of 1993)"
2224     },
2225     "Beskrivning": {
2226         "sv": "Anv\u00e4nds endast f\u00f6r konverterad information."
2227     },
2228     "Dolt": false,
2229     "Giltighetsperiod": {},
2230     "Grundtyp": "KURSPAKETERING",
2231     "ID": "107525",

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2233     "LarosateID": -1,
2234     "Regelverk": {
2235         "Regelvarden": [
2236             {
2237                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2238                 "Uid": "99f30d6f-e978-11e8-9df7-dac5c1184137",
2239                 "Varde": "true"
2240             },
2241             {
2242                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2243                 "Uid": "99f30d70-e978-11e8-9df7-dac5c1184137",
2244                 "Varde": "grupp.for.utsokning.grundavanceradniva"
2245             }
2246         ],
2247         "Uid": "5b59b523-4779-11e7-90e5-0ce8b6914937"
2248     },
2249     "Sorteringsordning": 50,
2250     "StudieordningID": 1,
2251     "TillfalleInomUtbildningstyper": [
2252         107524
2253     ],
2254     "UtbildningstyperInomUtbildningstyp": [
2255         101290,
2256         101374,
2257         105632,
2258         52,
2259         101961
2260     ]
2261 },
2262 {
2263     "AvserTillfalle": true,
2264     "Benamning": {
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2266         "en": "HVE programme instance"
2267     },
2268     "Beskrivning": {},
2269     "Dolt": false,
2270     "Giltighetsperiod": {},
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2272     "ID": "109979",
2273     "Kod": "YHUTBTF",
2274     "LarosateID": -1,
2275     "Regelverk": {
2276         "Regelvarden": [
2277             {
2278                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2279                 "Uid": "2956f8df-e80b-11e8-b1f1-65de97d74aa5",
2280                 "Varde": "grupp.for.utsokning.yhutbildning"
2281             },
2282             {

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2283         "Regelnamn": "commons.domain.regel.informationsbehorighet.yh.utbildning",
2284         "Uid": "2956f8e0-e80b-11e8-b1f1-65de97d74aa5",
2285         "Varde": "true"
2286     }
2287 ],
2288     "UId": "2b7549c4-99fa-11e7-953e-c08a46b0419e"
2289 },
2290 "Sorteringsordning": 50,
2291 "StudieordningID": 5,
2292 "TillfalleInomUtbildningstyper": [
2293     109977
2294 ],
2295 "UtbildningstyperInomUtbildningstyp": [
2296     109978,
2297     109980
2298 ]
2299 },
2300 {
2301     "AvserTillfalle": true,
2302     "Benamning": {
2303         "sv": "Kurstillf\u00e4lle",
2304         "en": "Course instance"
2305     },
2306     "Beskrivning": {},
2307     "Dolt": false,
2308     "Giltighetsperiod": {},
2309     "Grundtyp": "KURS",
2310     "ID": "109980",
2311     "Kod": "YHKTF",
2312     "LarosateID": -1,
2313     "Regelverk": {
2314         "Regelvarden": [
2315             {
2316                 "Regelnamn": "commons.domain.regel.informationsbehorighet.yh.utbildning",
2317                 "Uid": "a2670e8c-e80a-11e8-b1f1-65de97d74aa5",
2318                 "Varde": "true"
2319             },
2320             {
2321                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2322                 "Uid": "a2670e8d-e80a-11e8-b1f1-65de97d74aa5",
2323                 "Varde": "grupp.for.utsokning.yhutbildning"
2324             }
2325         ],
2326         "UId": "7eb84ace-99fa-11e7-953e-c08a46b0419e"
2327     },
2328     "Sorteringsordning": 50,
2329     "StudieordningID": 5,
2330     "TillfalleInomUtbildningstyper": [
2331         109978
2332     ],
2333     "UtbildningstyperInomUtbildningstyp": []

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2334 },
2335 {
2336     "AvserTillfalle": false,
2337     "Benamning": {
2338         "sv": "Forskningsarbete (utan angiven omfattning)",
2339         "en": "Research project (scope not specified)"
2340     },
2341     "Beskrivning": {
2342         "sv": "Vetenskaplig avhandling (doktorsavhandling), vetenskaplig uppsats (f\u00f6r licentiatexa",
2343     },
2344     "Dolt": false,
2345     "Giltighetsperiod": {},
2346     "Grundtyp": "KURS",
2347     "ID": "110915",
2348     "Kod": "2007VFU0",
2349     "LarosateID": -1,
2350     "NivaInomStudieordningID": 3,
2351     "Regelverk": {
2352         "Regelvarden": [
2353             {
2354                 "Regelnamn": "commons.domain.regel.ej.angiven.omfattning",
2355                 "Uid": "7523c7af-6b22-11e9-9c79-28b64e4f47fe",
2356                 "Varde": "true"
2357             },
2358             {
2359                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2360                 "Uid": "7523c7b0-6b22-11e9-9c79-28b64e4f47fe",
2361                 "Varde": "grupp.for.utsokning.forskarniva"
2362             },
2363             {
2364                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
2365                 "Uid": "7523c7b1-6b22-11e9-9c79-28b64e4f47fe",
2366                 "Varde": "true"
2367             }
2368         ],
2369         "Uid": "54c2afff-a47a-11e7-bf04-233ed8ff4123"
2370     },
2371     "Sorteringsordning": 8,
2372     "StudieordningID": 1,
2373     "TillfalleInomUtbildningstyper": [],
2374     "UtbildningstyperInomUtbildningstyp": [
2375         3,
2376         148452
2377     ]
2378 },
2379 {
2380     "AvserTillfalle": true,
2381     "Benamning": {
2382         "sv": "Tillf\u00e4lle f\u00f6r utbytes\u00e5tagande, utresande",
2383         "en": "Exchange load instance, outgoing student"
2384     },

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2385     "Beskrivning": {},
2386     "Dolt": false,
2387     "Giltighetsperiod": {},
2388     "Grundtyp": "KURS",
2389     "ID": "117019",
2390     "Kod": "2007UATTFR",
2391     "LarosateID": -1,
2392     "Regelverk": {
2393       "Regelvarden": [
2394         {
2395           "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
2396           "UId": "35dd35f2-ee3f-11e8-9270-17395ad8480f",
2397           "Varde": "true"
2398         },
2399         {
2400           "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
2401           "UId": "35dd35f1-ee3f-11e8-9270-17395ad8480f",
2402           "Varde": "true"
2403         },
2404         {
2405           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2406           "UId": "35dd35f0-ee3f-11e8-9270-17395ad8480f",
2407           "Varde": "grupp.for.utsokning.grundavanceradniva"
2408         }
2409       ],
2410       "UId": "e83f58b0-cbc9-11e7-b2fe-0c4a35a84a9e"
2411     },
2412     "Sorteringsordning": 12,
2413     "StudieordningID": 1,
2414     "TillfalleInomUtbildningstyper": [
2415       101730
2416     ],
2417     "UtbildningstyperInomUtbildningstyp": [],
2418   },
2419   {
2420     "AvserTillfalle": false,
2421     "Benamning": {
2422       "sv": "Program",
2423       "en": "Programme"
2424     },
2425     "Beskrivning": {},
2426     "Dolt": false,
2427     "Giltighetsperiod": {},
2428     "Grundtyp": "KURSPAKETERING",
2429     "ID": "121171",
2430     "Kod": "FHSPRG",
2431     "LarosateID": -1,
2432     "Regelverk": {
2433       "Regelvarden": [],
2434       "UId": "7dc3ef28-dcea-11e7-9840-bee5623b4e1b"
2435     },

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2436     "Sorteringsordning": 4,
2437     "StudieordningID": 16,
2438     "TillfalleInomUtbildningstyper": [],
2439     "UtbildningstyperInomUtbildningstyp": [
2440         121175,
2441         121173
2442     ]
2443 },
2444 {
2445     "AvserTillfalle": true,
2446     "Benamning": {
2447         "sv": "Programtillf\u00e4lle",
2448         "en": "Programme instance"
2449     },
2450     "Beskrivning": {},
2451     "Dolt": false,
2452     "Giltighetsperiod": {},
2453     "Grundtyp": "KURSPAKETERING",
2454     "ID": "121172",
2455     "Kod": "FHSPRGTF",
2456     "LarosateID": -1,
2457     "Regelverk": {
2458         "Regelvarden": [],
2459         "Uid": "f438ca8f-dcea-11e7-9840-bee5623b4e1b"
2460     },
2461     "Sorteringsordning": 50,
2462     "StudieordningID": 16,
2463     "TillfalleInomUtbildningstyper": [
2464         121171
2465     ],
2466     "UtbildningstyperInomUtbildningstyp": [
2467         121176,
2468         121174
2469     ]
2470 },
2471 {
2472     "AvserTillfalle": false,
2473     "Benamning": {
2474         "sv": "Inriktning",
2475         "en": "Specialisation"
2476     },
2477     "Beskrivning": {},
2478     "Dolt": false,
2479     "Giltighetsperiod": {},
2480     "Grundtyp": "KURSPAKETERING",
2481     "ID": "121173",
2482     "Kod": "FHSINR",
2483     "LarosateID": -1,
2484     "Regelverk": {
2485         "Regelvarden": [
2486             {

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2487         "Regelnamn": "commons.domain.regel.sjalvstandig",
2488         "Uid": "0f2db262-e80a-11e8-b1f1-65de97d74aa5",
2489         "Varde": "false"
2490     }
2491 ],
2492     "Uid": "2f8f6056-dceb-11e7-9840-bee5623b4e1b"
2493 },
2494 "Sorteringsordning": 50,
2495 "StudieordningID": 16,
2496 "TillfalleInomUtbildningstyper": [],
2497 "UtbildningstyperInomUtbildningstyp": [
2498     121175
2499 ]
2500 },
2501 {
2502     "AvserTillfalle": true,
2503     "Benamning": {
2504         "sv": "Inriktningsstillf\u00e4lle",
2505         "en": "Specialisation instance"
2506     },
2507     "Beskrivning": {},
2508     "Dolt": false,
2509     "Giltighetsperiod": {},
2510     "Grundtyp": "KURSPAKETERING",
2511     "ID": "121174",
2512     "Kod": "FHSINRTF",
2513     "LarosateID": -1,
2514     "Regelverk": {
2515         "Regelvarden": [],
2516         "Uid": "79f4a259-dceb-11e7-9840-bee5623b4e1b"
2517     },
2518     "Sorteringsordning": 50,
2519     "StudieordningID": 16,
2520     "TillfalleInomUtbildningstyper": [
2521         121173
2522     ],
2523     "UtbildningstyperInomUtbildningstyp": [
2524         121176
2525     ]
2526 },
2527 {
2528     "AvserTillfalle": false,
2529     "Benamning": {
2530         "sv": "Kurs",
2531         "en": "Course"
2532     },
2533     "Beskrivning": {},
2534     "Dolt": false,
2535     "Giltighetsperiod": {},
2536     "Grundtyp": "KURS",
2537     "ID": "121175",

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2538     "Kod": "FHSKURS",
2539     "LarosateID": -1,
2540     "Regelverk": {
2541         "Regelvarden": [],
2542         "Uid": "10cfb661-dcec-11e7-9840-bee5623b4e1b"
2543     },
2544     "Sorteringsordning": 1,
2545     "StudieordningID": 16,
2546     "TillfalleInomUtbildningstyper": [],
2547     "UtbildningstyperInomUtbildningstyp": [
2548         121177
2549     ]
2550 },
2551 {
2552     "AvserTillfalle": false,
2553     "Benamning": {
2554         "sv": "Kurs",
2555         "en": "Course"
2556     },
2557     "Beskrivning": {},
2558     "Dolt": false,
2559     "Giltighetsperiod": {},
2560     "Grundtyp": "KURS",
2561     "ID": "122030",
2562     "Kod": "HIKURS",
2563     "LarosateID": -1,
2564     "Regelverk": {
2565         "Regelvarden": [],
2566         "Uid": "668b14f0-0998-11e8-81a6-df2234b3409c"
2567     },
2568     "Sorteringsordning": 50,
2569     "StudieordningID": 15,
2570     "TillfalleInomUtbildningstyper": [],
2571     "UtbildningstyperInomUtbildningstyp": []
2572 },
2573 {
2574     "AvserTillfalle": true,
2575     "Benamning": {
2576         "sv": "Kurstillf\u00e4lle",
2577         "en": "Course instance"
2578     },
2579     "Beskrivning": {},
2580     "Dolt": false,
2581     "Giltighetsperiod": {},
2582     "Grundtyp": "KURS",
2583     "ID": "122031",
2584     "Kod": "HIKTF",
2585     "LarosateID": -1,
2586     "Regelverk": {
2587         "Regelvarden": [],
2588         "Uid": "adbb1d5a-0998-11e8-81a6-df2234b3409c"

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2589     },
2590     "Sorteringsordning": 50,
2591     "StudieordningID": 15,
2592     "TillfalleInomUtbildningstyper": [
2593         122030
2594     ],
2595     "UtbildningstyperInomUtbildningstyp": []
2596 },
2597 {
2598     "AvserTillfalle": true,
2599     "Benamning": {
2600         "sv": "Individuellt kurstillf\u00e4lle, grundutbildning",
2601         "en": "Individual course instance, Undergraduate"
2602     },
2603     "Beskrivning": {},
2604     "Dolt": false,
2605     "Giltighetsperiod": {},
2606     "Grundtyp": "KURS",
2607     "ID": "138460",
2608     "Kod": "1993GIKTF",
2609     "LarosateID": -1,
2610     "Regelverk": {
2611         "Regelvarden": [
2612             {
2613                 "Regelnamn": "commons.domain.regel.individuell",
2614                 "Uid": "f607b4ee-e809-11e8-b1f1-65de97d74aa5",
2615                 "Varde": "true"
2616             },
2617             {
2618                 "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
2619                 "Uid": "f607b4ed-e809-11e8-b1f1-65de97d74aa5",
2620                 "Varde": "true"
2621             }
2622         ],
2623         "Uid": "c95778a4-cbfc-11e8-9d78-2c6264424f58"
2624     },
2625     "Sorteringsordning": 50,
2626     "StudieordningID": 2,
2627     "TillfalleInomUtbildningstyper": [
2628         101370
2629     ],
2630     "UtbildningstyperInomUtbildningstyp": []
2631 },
2632 {
2633     "AvserTillfalle": true,
2634     "Benamning": {
2635         "sv": "Individuellt kurstillf\u00e4lle, forskarutbildning",
2636         "en": "Individual course instance, doctoral studies"
2637     },
2638     "Beskrivning": {},
2639     "Dolt": false,

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2640     "Giltighetsperiod": {},
2641     "Grundtyp": "KURS",
2642     "ID": "138461",
2643     "Kod": "1993FIKTF",
2644     "LarosateID": -1,
2645     "Regelverk": {
2646         "Regelvarden": [
2647             {
2648                 "Regelnamn": "commons.domain.regel.individuell",
2649                 "Uid": "f3e0685e-e809-11e8-b1f1-65de97d74aa5",
2650                 "Varde": "true"
2651             }
2652         ],
2653         "Uid": "244e849e-cbfd-11e8-9d78-2c6264424f58"
2654     },
2655     "Sorteringsordning": 50,
2656     "StudieordningID": 2,
2657     "TillfalleInomUtbildningstyper": [
2658         101967
2659     ],
2660     "UtbildningstyperInomUtbildningstyp": []
2661 },
2662 {
2663     "AvserTillfalle": false,
2664     "Benamning": {
2665         "sv": "Kurs, grundniv\u00e5",
2666         "en": "Course, First-cycle"
2667     },
2668     "Beskrivning": {},
2669     "Dolt": false,
2670     "Giltighetsperiod": {},
2671     "Grundtyp": "KURS",
2672     "ID": "138692",
2673     "Kod": "PU18GKURS",
2674     "LarosateID": -1,
2675     "NivaInomStudieordningID": 1,
2676     "Regelverk": {
2677         "Regelvarden": [
2678             {
2679                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
2680                 "Uid": "2f63220f-180a-11ef-97a4-423019c54f2d",
2681                 "Varde": "true"
2682             },
2683             {
2684                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2685                 "Uid": "2f63220e-180a-11ef-97a4-423019c54f2d",
2686                 "Varde": "true"
2687             },
2688             {
2689                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
2690                 "Uid": "2f632210-180a-11ef-97a4-423019c54f2d",

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2691         "Varde": "true"
2692     },
2693     {
2694         "Regelnamn": "commons.domain.regel.avbrottsregel",
2695         "UId": "2f632211-180a-11ef-97a4-423019c54f2d",
2696         "Varde": "20"
2697     },
2698     {
2699         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2700         "UId": "2f63220c-180a-11ef-97a4-423019c54f2d",
2701         "Varde": "grupp.for.utsokning.polisutbildning"
2702     },
2703     {
2704         "Regelnamn": "commons.domain.regel.informationsbehorighet.polisutbildning",
2705         "UId": "2f63220d-180a-11ef-97a4-423019c54f2d",
2706         "Varde": "true"
2707     },
2708     {
2709         "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
2710         "UId": "2f62fafa-180a-11ef-97a4-423019c54f2d",
2711         "Varde": "true"
2712     }
2713 ],
2714 "UId": "2461ec5e-d6fc-11e8-9ff0-687a8474457e"
2715 },
2716 "Sorteringsordning": 1,
2717 "StudieordningID": 135370,
2718 "TillfalleInomUtbildningstyper": [],
2719 "UtbildningstyperInomUtbildningstyp": [
2720     138695,
2721     138694
2722 ]
2723 },
2724 {
2725     "AvserTillfalle": false,
2726     "Benamning": {
2727         "sv": "Kurs, avancerad niv\u00e5",
2728         "en": "Course, Second-cycle"
2729     },
2730     "Beskrivning": {},
2731     "Dolt": false,
2732     "Giltighetsperiod": {},
2733     "Grundtyp": "KURS",
2734     "ID": "138693",
2735     "Kod": "PU18AKURS",
2736     "LarosateID": -1,
2737     "NivaInomStudieordningID": 2,
2738     "Regelverk": {
2739         "Regelvarde": [
2740             {
2741                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",

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2742     "Uid": "41ad49ff-180a-11ef-97a4-423019c54f2d",
2743     "Varde": "true"
2744   },
2745   {
2746     "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
2747     "Uid": "41ad4a00-180a-11ef-97a4-423019c54f2d",
2748     "Varde": "true"
2749   },
2750   {
2751     "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
2752     "Uid": "41ad49fb-180a-11ef-97a4-423019c54f2d",
2753     "Varde": "true"
2754   },
2755   {
2756     "Regelnamn": "commons.domain.regel.avbrottsregel",
2757     "Uid": "41ad4a01-180a-11ef-97a4-423019c54f2d",
2758     "Varde": "20"
2759   },
2760   {
2761     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2762     "Uid": "41ad49fe-180a-11ef-97a4-423019c54f2d",
2763     "Varde": "true"
2764   },
2765   {
2766     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2767     "Uid": "41ad49fc-180a-11ef-97a4-423019c54f2d",
2768     "Varde": "grupp.for.utsokning.polisutbildning"
2769   },
2770   {
2771     "Regelnamn": "commons.domain.regel.informationsbehorighet.polisutbildning",
2772     "Uid": "41ad49fd-180a-11ef-97a4-423019c54f2d",
2773     "Varde": "true"
2774   }
2775 ],
2776 "Uid": "f7dd53a1-d6fc-11e8-9ff0-687a8474457e"
2777 },
2778 "Sorteringsordning": 2,
2779 "StudieordningID": 135370,
2780 "TillfalleInomUtbildningstyper": [],
2781 "UtbildningstyperInomUtbildningstyp": [
2782   138695,
2783   138694
2784 ]
2785 },
2786 {
2787   "AvserTillfalle": false,
2788   "Benamning": {
2789     "sv": "Modul",
2790     "en": "Module"
2791   },
2792   "Beskrivning": {},

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2793     "Dolt": false,
2794     "Giltighetsperiod": {},
2795     "Grundtyp": "MODUL",
2796     "ID": "138694",
2797     "Kod": "PU18MOD",
2798     "LarosateID": -1,
2799     "Regelverk": {
2800       "Regelvarden": [
2801         {
2802           "Regelnamn": "commons.domain.regel.sjalvstandig",
2803           "Uid": "81bed98d-8360-11ec-b5c0-b03dbaf5459c",
2804           "Varde": "false"
2805         },
2806         {
2807           "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2808           "Uid": "81bed98c-8360-11ec-b5c0-b03dbaf5459c",
2809           "Varde": "true"
2810         },
2811         {
2812           "Regelnamn": "commons.domain.regel.informationsbehorighet.polisutbildning",
2813           "Uid": "81bed98b-8360-11ec-b5c0-b03dbaf5459c",
2814           "Varde": "true"
2815         },
2816         {
2817           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2818           "Uid": "81bed98a-8360-11ec-b5c0-b03dbaf5459c",
2819           "Varde": "grupp.for.utsokning.polisutbildning"
2820         },
2821         {
2822           "Regelnamn": "commons.domain.regel.versionshanteras",
2823           "Uid": "81bed98e-8360-11ec-b5c0-b03dbaf5459c",
2824           "Varde": "false"
2825         }
2826       ],
2827       "Uid": "a7048a60-d6fe-11e8-9ff0-687a8474457e"
2828     },
2829     "Sorteringsordning": 50,
2830     "StudieordningID": 135370,
2831     "TillfalleInomUtbildningstyper": [],
2832     "UtbildningstyperInomUtbildningstyp": []
2833   },
2834   {
2835     "AvserTillfalle": false,
2836     "Benamning": {
2837       "sv": "Kurs",
2838       "en": "Course"
2839     },
2840     "Beskrivning": {},
2841     "Dolt": false,
2842     "Giltighetsperiod": {},
2843     "Grundtyp": "KURS",

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2844     "ID": "147909",
2845     "Kod": "UPTK19",
2846     "LarosateID": -1,
2847     "Regelverk": {
2848         "Regelvarden": [
2849             {
2850                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2851                 "Uid": "2c2f0226-1b2c-11e9-beb8-23b395e64549",
2852                 "Varde": "grupp.for.utsokning.uppdraagsutbildning"
2853             },
2854             {
2855                 "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdraagsutbildning",
2856                 "Uid": "2c2f0225-1b2c-11e9-beb8-23b395e64549",
2857                 "Varde": "true"
2858             }
2859         ],
2860         "Uid": "2c2f0224-1b2c-11e9-beb8-23b395e64549"
2861     },
2862     "Sorteringsordning": 50,
2863     "StudieordningID": 147898,
2864     "TillfalleInomUtbildningstyper": [],
2865     "UtbildningstyperInomUtbildningstyp": [
2866         147908
2867     ]
2868 },
2869 {
2870     "AvserTillfalle": true,
2871     "Benamning": {
2872         "sv": "Kurstillf\u00e4lle",
2873         "en": "Course instance"
2874     },
2875     "Beskrivning": {},
2876     "Dolt": false,
2877     "Giltighetsperiod": {},
2878     "Grundtyp": "KURS",
2879     "ID": "147910",
2880     "Kod": "UPTKTF19",
2881     "LarosateID": -1,
2882     "Regelverk": {
2883         "Regelvarden": [
2884             {
2885                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2886                 "Uid": "d733e027-1b2d-11e9-beb8-23b395e64549",
2887                 "Varde": "true"
2888             },
2889             {
2890                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2891                 "Uid": "d733e029-1b2d-11e9-beb8-23b395e64549",
2892                 "Varde": "grupp.for.utsokning.uppdraagsutbildning"
2893             },
2894             {

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2895         "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdragutbildning",
2896         "UId": "d733e028-1b2d-11e9-beb8-23b395e64549",
2897         "Varde": "true"
2898     }
2899 ],
2900     "UId": "d733e026-1b2d-11e9-beb8-23b395e64549"
2901 },
2902 "Sorteringsordning": 50,
2903 "StudieordningID": 147898,
2904 "TillfalleInomUtbildningstyper": [
2905     147909
2906 ],
2907 "UtbildningstyperInomUtbildningstyp": []
2908 },
2909 {
2910     "AvserTillfalle": true,
2911     "Benamning": {
2912         "sv": "Individuellt kurstillf\u00e4lle",
2913         "en": "Individual course instance"
2914     },
2915     "Beskrivning": {},
2916     "Dolt": false,
2917     "Giltighetsperiod": {},
2918     "Grundtyp": "KURS",
2919     "ID": "148155",
2920     "Kod": "FUPIKTF",
2921     "LarosateID": -1,
2922     "Regelverk": {
2923         "Regelvarden": [
2924             {
2925                 "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
2926                 "UId": "2d7728e3-3a71-11e9-98c7-6e9130f64812",
2927                 "Varde": "true"
2928             },
2929             {
2930                 "Regelnamn": "commons.domain.regel.individuell",
2931                 "UId": "2d7728e2-3a71-11e9-98c7-6e9130f64812",
2932                 "Varde": "true"
2933             },
2934             {
2935                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2936                 "UId": "2d7728e1-3a71-11e9-98c7-6e9130f64812",
2937                 "Varde": "grupp.for.utsokning.forutbildning"
2938             }
2939         ],
2940         "UId": "749599b5-3a70-11e9-98c7-6e9130f64812"
2941     },
2942     "Sorteringsordning": 50,
2943     "StudieordningID": 3,
2944     "TillfalleInomUtbildningstyper": [
2945         101378

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2946     ],
2947     "UtbildningstyperInomUtbildningstyp": []
2948 },
2949 {
2950     "AvserTillfalle": false,
2951     "Benamning": {
2952         "sv": "Modul utan angiven omfattning",
2953         "en": "Module without specified scope"
2954     },
2955     "Beskrivning": {},
2956     "Dolt": false,
2957     "Giltighetsperiod": {},
2958     "Grundtyp": "MODUL",
2959     "ID": "148452",
2960     "Kod": "2007MUA0",
2961     "LarosateID": -1,
2962     "Regelverk": {
2963         "Regelvarden": [
2964             {
2965                 "Regelnamn": "commons.domain.regel.sjalvstandig",
2966                 "Uid": "251a1dde-67e9-11e9-9c79-28b64e4f47fe",
2967                 "Varde": "false"
2968             },
2969             {
2970                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2971                 "Uid": "251a1ddb-67e9-11e9-9c79-28b64e4f47fe",
2972                 "Varde": "grupp.for.utsokning.forskarniva"
2973             },
2974             {
2975                 "Regelnamn": "commons.domain.regel.versionshanteras",
2976                 "Uid": "251a1ddf-67e9-11e9-9c79-28b64e4f47fe",
2977                 "Varde": "false"
2978             },
2979             {
2980                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2981                 "Uid": "251a1ddd-67e9-11e9-9c79-28b64e4f47fe",
2982                 "Varde": "true"
2983             },
2984             {
2985                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
2986                 "Uid": "251a1ddc-67e9-11e9-9c79-28b64e4f47fe",
2987                 "Varde": "true"
2988             },
2989             {
2990                 "Regelnamn": "commons.domain.regel.ej.angiven.omfattning",
2991                 "Uid": "2515d819-67e9-11e9-9c79-28b64e4f47fe",
2992                 "Varde": "true"
2993             }
2994         ],
2995         "Uid": "2515d818-67e9-11e9-9c79-28b64e4f47fe"
2996     },

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2997     "Sorteringsordning": 50,
2998     "StudieordningID": 1,
2999     "TillfalleInomUtbildningstyper": [],
3000     "UtbildningstyperInomUtbildningstyp": []
3001 },
3002 {
3003     "AvserTillfalle": true,
3004     "Benamning": {
3005         "sv": "Individuellt kurstillf\u00e4lle, inresande",
3006         "en": "Individual course instance, incoming student"
3007     },
3008     "Beskrivning": {
3009         "sv": "Utbildningstypen motsvarar attributen i Individuellt kurstillf\u00e4lle - 2007IKTF, med
3010     },
3011     "Dolt": false,
3012     "Giltighetsperiod": {},
3013     "Grundtyp": "KURS",
3014     "ID": "148962",
3015     "Kod": "2007IKTFI",
3016     "LarosateID": -1,
3017     "Regelverk": {
3018         "Regelvarden": [
3019             {
3020                 "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
3021                 "Uid": "e1e91106-9d6b-11e9-b505-4ba9574641db",
3022                 "Varde": "true"
3023             },
3024             {
3025                 "Regelnamn": "commons.domain.regel.individuell",
3026                 "Uid": "e1e91104-9d6b-11e9-b505-4ba9574641db",
3027                 "Varde": "true"
3028             },
3029             {
3030                 "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
3031                 "Uid": "e1e91105-9d6b-11e9-b505-4ba9574641db",
3032                 "Varde": "true"
3033             },
3034             {
3035                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3036                 "Uid": "e1e7b173-9d6b-11e9-b505-4ba9574641db",
3037                 "Varde": "grupp.for.utsokning.grundavanceradniva"
3038             }
3039         ],
3040         "Uid": "e1e7b172-9d6b-11e9-b505-4ba9574641db"
3041     },
3042     "Sorteringsordning": 50,
3043     "StudieordningID": 1,
3044     "TillfalleInomUtbildningstyper": [
3045         106390,
3046         101380
3047     ],

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3048     "UtbildningstyperInomUtbildningstyp": []
3049 },
3050 {
3051     "AvserTillfalle": false,
3052     "Benamning": {
3053         "sv": "Kurspaket, forskarniv\u00e5",
3054         "en": "Course package, Third-cycle"
3055     },
3056     "Beskrivning": {},
3057     "Dolt": false,
3058     "Giltighetsperiod": {},
3059     "Grundtyp": "KURSPAKETERING",
3060     "ID": "151503",
3061     "Kod": "2007FAKP",
3062     "LarosateID": -1,
3063     "NivaInomStudieordningID": 3,
3064     "Regelverk": {
3065         "Regelvarden": [
3066             {
3067                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3068                 "Uid": "e3afd246-0505-11ee-b40a-f28ad46341da",
3069                 "Varde": "grupp.for.utsokning.forskarniva"
3070             },
3071             {
3072                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
3073                 "Uid": "e3afd247-0505-11ee-b40a-f28ad46341da",
3074                 "Varde": "true"
3075             },
3076             {
3077                 "Regelnamn": "commons.domain.regel.ar_kurspaket",
3078                 "Uid": "e3afd248-0505-11ee-b40a-f28ad46341da",
3079                 "Varde": "true"
3080             }
3081         ],
3082         "Uid": "35def973-6f89-11eb-998b-eb07df7e45d0"
3083     },
3084     "Sorteringsordning": 50,
3085     "StudieordningID": 1,
3086     "TillfalleInomUtbildningstyper": [],
3087     "UtbildningstyperInomUtbildningstyp": [
3088         101952,
3089         101950,
3090         110915,
3091         101954
3092     ]
3093 },
3094 {
3095     "AvserTillfalle": true,
3096     "Benamning": {
3097         "sv": "Kurspaket tillf\u00e4lle, forskarniv\u00e5",
3098         "en": "Course package instance, Third-cycle"

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3099     },
3100     "Beskrivning": {},
3101     "Dolt": false,
3102     "Giltighetsperiod": {},
3103     "Grundtyp": "KURSPAKETERING",
3104     "ID": "151504",
3105     "Kod": "2007FAKPTF",
3106     "LarosateID": -1,
3107     "Regelverk": {
3108       "Regelvarden": [
3109         {
3110           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3111           "UId": "20ba58ab-0506-11ee-b40a-f28ad46341da",
3112           "Varde": "grupp.for.utsokning.forskarniva"
3113         },
3114         {
3115           "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
3116           "UId": "20ba58ac-0506-11ee-b40a-f28ad46341da",
3117           "Varde": "true"
3118         },
3119         {
3120           "Regelnamn": "commons.domain.regel.ar_kurspaket",
3121           "UId": "20ba58ad-0506-11ee-b40a-f28ad46341da",
3122           "Varde": "true"
3123         }
3124       ],
3125       "UId": "8831a6c3-6f89-11eb-998b-eb07df7e45d0"
3126     },
3127     "Sorteringsordning": 50,
3128     "StudieordningID": 1,
3129     "TillfalleInomUtbildningstyper": [
3130       151503
3131     ],
3132     "UtbildningstyperInomUtbildningstyp": [
3133       101953,
3134       101951,
3135       107510,
3136       101952,
3137       101955,
3138       110915,
3139       101954
3140     ]
3141   },
3142   {
3143     "AvserTillfalle": false,
3144     "Benamning": {
3145       "sv": "Kurs",
3146       "en": "Course"
3147     },
3148     "Beskrivning": {},
3149     "Dolt": false,

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3150     "Giltighetsperiod": {},
3151     "Grundtyp": "KURS",
3152     "ID": "161486",
3153     "Kod": "PISKURS",
3154     "LarosateID": -1,
3155     "Regelverk": {
3156       "Regelvarden": [
3157         {
3158           "Regelnamn": "commons.domain.regel.har.omfattning",
3159           "Uid": "9147212c-edeb-11ef-827b-ee188a544698",
3160           "Varde": "true"
3161         },
3162         {
3163           "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
3164           "Uid": "9147212a-edeb-11ef-827b-ee188a544698",
3165           "Varde": "true"
3166         },
3167         {
3168           "Regelnamn": "commons.domain.regel.avbrottsregel",
3169           "Uid": "9147212d-edeb-11ef-827b-ee188a544698",
3170           "Varde": "15"
3171         },
3172         {
3173           "Regelnamn": "commons.domain.regel.versionshanteras",
3174           "Uid": "9147212b-edeb-11ef-827b-ee188a544698",
3175           "Varde": "true"
3176         }
3177       ],
3178       "Uid": "5d93f8fe-e879-11ef-870b-0958b8b64637"
3179     },
3180     "Sorteringsordning": 50,
3181     "StudieordningID": 161480,
3182     "TillfalleInomUtbildningstyper": [],
3183     "UtbildningstyperInomUtbildningstyp": [
3184       161528,
3185       161487
3186     ]
3187   },
3188   {
3189     "AvserTillfalle": false,
3190     "Benamning": {
3191       "sv": "Modul utan omfattning",
3192       "en": "Module without scope"
3193     },
3194     "Beskrivning": {},
3195     "Dolt": false,
3196     "Giltighetsperiod": {},
3197     "Grundtyp": "MODUL",
3198     "ID": "161487",
3199     "Kod": "PISMUO",
3200     "LarosateID": -1,

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3201     "Regelverk": {
3202       "Regelvarden": [
3203         {
3204           "Regelnamn": "commons.domain.regel.sjalvstandig",
3205           "Uid": "af65b620-e879-11ef-870b-0958b8b64637",
3206           "Varde": "false"
3207         },
3208         {
3209           "Regelnamn": "commons.domain.regel.versionshanteras",
3210           "Uid": "af65b61f-e879-11ef-870b-0958b8b64637",
3211           "Varde": "false"
3212         },
3213         {
3214           "Regelnamn": "commons.domain.regel.har.omfattning",
3215           "Uid": "af65b621-e879-11ef-870b-0958b8b64637",
3216           "Varde": "false"
3217         }
3218       ],
3219       "Uid": "af65b61e-e879-11ef-870b-0958b8b64637"
3220     },
3221     "Sorteringsordning": 50,
3222     "StudieordningID": 161480,
3223     "TillfalleInomUtbildningstyper": [],
3224     "UtbildningstyperInomUtbildningstyp": []
3225   },
3226   {
3227     "AvserTillfalle": true,
3228     "Benamning": {
3229       "sv": "Kurstillf\u00e4lle",
3230       "en": "Course instance"
3231     },
3232     "Beskrivning": {},
3233     "Dolt": false,
3234     "Giltighetsperiod": {},
3235     "Grundtyp": "KURS",
3236     "ID": "161488",
3237     "Kod": "PISKTF",
3238     "LarosateID": -1,
3239     "Regelverk": {
3240       "Regelvarden": [],
3241       "Uid": "fb3b5073-e879-11ef-870b-0958b8b64637"
3242     },
3243     "Sorteringsordning": 50,
3244     "StudieordningID": 161480,
3245     "TillfalleInomUtbildningstyper": [
3246       161486
3247     ],
3248     "UtbildningstyperInomUtbildningstyp": []
3249   },
3250   {
3251     "AvserTillfalle": false,

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3252     "Benamning": {
3253         "sv": "Modul",
3254         "en": "Module"
3255     },
3256     "Beskrivning": {},
3257     "Dolt": false,
3258     "Giltighetsperiod": {},
3259     "Grundtyp": "MODUL",
3260     "ID": "161528",
3261     "Kod": "PISMOD",
3262     "LarosateID": -1,
3263     "Regelverk": {
3264         "Regelvarden": [
3265             {
3266                 "Regelnamn": "commons.domain.regel.har.omfattning",
3267                 "Uid": "82a162e8-eddb-11ef-827b-ee188a544698",
3268                 "Varde": "true"
3269             },
3270             {
3271                 "Regelnamn": "commons.domain.regel.sjalvstandig",
3272                 "Uid": "82a162e7-eddb-11ef-827b-ee188a544698",
3273                 "Varde": "false"
3274             },
3275             {
3276                 "Regelnamn": "commons.domain.regel.versionshanteras",
3277                 "Uid": "82a114c6-eddb-11ef-827b-ee188a544698",
3278                 "Varde": "false"
3279             }
3280         ],
3281         "Uid": "82a114c5-eddb-11ef-827b-ee188a544698"
3282     },
3283     "Sorteringsordning": 50,
3284     "StudieordningID": 161480,
3285     "TillfalleInomUtbildningstyper": [],
3286     "UtbildningstyperInomUtbildningstyp": []
3287 },
3288 {
3289     "AvserTillfalle": false,
3290     "Benamning": {
3291         "sv": "Kurs",
3292         "en": "Course"
3293     },
3294     "Beskrivning": {},
3295     "Dolt": false,
3296     "Giltighetsperiod": {},
3297     "Grundtyp": "KURS",
3298     "ID": "162240",
3299     "Kod": "PIPTKURS",
3300     "LarosateID": -1,
3301     "Regelverk": {
3302         "Regelvarden": [

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3303     {
3304         "Regelnamn": "commons.domain.regel.har.omfattning",
3305         "Uid": "60541f96-3712-11f0-acdb-b265373e47d4",
3306         "Varde": "true"
3307     },
3308     {
3309         "Regelnamn": "commons.domain.regel.versionshanteras",
3310         "Uid": "60541f99-3712-11f0-acdb-b265373e47d4",
3311         "Varde": "true"
3312     },
3313     {
3314         "Regelnamn": "commons.domain.regel.avbrottsregel",
3315         "Uid": "60541f95-3712-11f0-acdb-b265373e47d4",
3316         "Varde": "15"
3317     },
3318     {
3319         "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
3320         "Uid": "60541f97-3712-11f0-acdb-b265373e47d4",
3321         "Varde": "true"
3322     },
3323     {
3324         "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
3325         "Uid": "60541f98-3712-11f0-acdb-b265373e47d4",
3326         "Varde": "true"
3327     }
3328 ],
3329     "Uid": "fbe2ecd6-3711-11f0-acdb-b265373e47d4"
3330 },
3331 "Sorteringsordning": 50,
3332 "StudieordningID": 162110,
3333 "TillfalleInomUtbildningstyper": [],
3334 "UtbildningstyperInomUtbildningstyp": [
3335     162241
3336 ],
3337 },
3338 {
3339     "AvserTillfalle": false,
3340     "Benamning": {
3341         "sv": "Modul",
3342         "en": "Module"
3343     },
3344     "Beskrivning": {},
3345     "Dolt": false,
3346     "Giltighetsperiod": {},
3347     "Grundtyp": "MODUL",
3348     "ID": "162241",
3349     "Kod": "PIPTMOD",
3350     "LarosateID": -1,
3351     "Regelverk": {
3352         "Regelvarde": [
3353             {

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3354         "Regelnamn": "commons.domain.regel.sjalvstandig",
3355         "UId": "2f6b3788-3712-11f0-acdb-b265373e47d4",
3356         "Varde": "false"
3357     },
3358     {
3359         "Regelnamn": "commons.domain.regel.har.omfattning",
3360         "UId": "2f6b3786-3712-11f0-acdb-b265373e47d4",
3361         "Varde": "true"
3362     },
3363     {
3364         "Regelnamn": "commons.domain.regel.versionshanteras",
3365         "UId": "2f6b3787-3712-11f0-acdb-b265373e47d4",
3366         "Varde": "false"
3367     }
3368 ],
3369 "UId": "2f6b3785-3712-11f0-acdb-b265373e47d4"
3370 },
3371 "Sorteringsordning": 50,
3372 "StudieordningID": 162110,
3373 "TillfalleInomUtbildningstyper": [],
3374 "UtbildningstyperInomUtbildningstyp": []
3375 },
3376 {
3377     "AvserTillfalle": true,
3378     "Benamning": {
3379         "sv": "Kurstillf\u00e4lle",
3380         "en": "Course instance"
3381     },
3382     "Beskrivning": {},
3383     "Dolt": false,
3384     "Giltighetsperiod": {},
3385     "Grundtyp": "KURS",
3386     "ID": "162242",
3387     "Kod": "PIPTKTF",
3388     "LarosateID": -1,
3389     "Regelverk": {
3390         "Regelvarde": [],
3391         "UId": "54192bad-3712-11f0-acdb-b265373e47d4"
3392     },
3393     "Sorteringsordning": 50,
3394     "StudieordningID": 162110,
3395     "TillfalleInomUtbildningstyper": [
3396         162240
3397     ],
3398     "UtbildningstyperInomUtbildningstyp": []
3399 },
3400 {
3401     "AvserTillfalle": false,
3402     "Benamning": {
3403         "sv": "Inriktning",
3404         "en": "Specialisation"

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3405 },
3406 "Beskrivning": {},
3407 "Dolt": false,
3408 "Giltighetsperiod": {},
3409 "Grundtyp": "KURSPAKETERING",
3410 "ID": "101270",
3411 "Kod": "2007INR",
3412 "LarosateID": -1,
3413 "Regelverk": {
3414   "Regelvarden": [
3415     {
3416       "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3417       "Uid": "0b529b0a-e80a-11e8-b1f1-65de97d74aa5",
3418       "Varde": "true"
3419     },
3420     {
3421       "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3422       "Uid": "0b529b0b-e80a-11e8-b1f1-65de97d74aa5",
3423       "Varde": "true"
3424     },
3425     {
3426       "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3427       "Uid": "0b529b09-e80a-11e8-b1f1-65de97d74aa5",
3428       "Varde": "grupp.for.utsokning.grundavanceradniva"
3429     },
3430     {
3431       "Regelnamn": "commons.domain.regel.sjalvstandig",
3432       "Uid": "0b529b08-e80a-11e8-b1f1-65de97d74aa5",
3433       "Varde": "false"
3434     }
3435   ],
3436   "Uid": "0d66222a-7084-11e6-b9af-3b90d480415d"
3437 },
3438 "Sorteringsordning": 50,
3439 "StudieordningID": 1,
3440 "TillfalleInomUtbildningstyper": [],
3441 "UtbildningstyperInomUtbildningstyp": [
3442   101291,
3443   22,
3444   24,
3445   101375
3446 ]
3447 },
3448 {
3449   "AvserTillfalle": true,
3450   "Benamning": {
3451     "sv": "Inriktningstillf\u00e4lle",
3452     "en": "Specialisation instance"
3453   },
3454   "Beskrivning": {},
3455   "Dolt": false,

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3456     "Giltighetsperiod": {},
3457     "Grundtyp": "KURSPAKETERING",
3458     "ID": "101290",
3459     "Kod": "2007INRTF",
3460     "LarosateID": -1,
3461     "Regelverk": {
3462         "Regelvarden": [
3463             {
3464                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3465                 "Uid": "757f6b25-32a9-11ed-9f62-5d776d184866",
3466                 "Varde": "true"
3467             },
3468             {
3469                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3470                 "Uid": "757f6b26-32a9-11ed-9f62-5d776d184866",
3471                 "Varde": "true"
3472             },
3473             {
3474                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3475                 "Uid": "757f6b24-32a9-11ed-9f62-5d776d184866",
3476                 "Varde": "grupp.for.utsokning.grundavanceradniva"
3477             }
3478         ],
3479         "Uid": "6942171b-f8fa-11e6-bfa5-278fa0454831"
3480     },
3481     "Sorteringsordning": 50,
3482     "StudieordningID": 1,
3483     "TillfalleInomUtbildningstyper": [
3484         101270
3485     ],
3486     "UtbildningstyperInomUtbildningstyp": [
3487         101291,
3488         105632,
3489         52,
3490         22,
3491         101382,
3492         101381,
3493         152635,
3494         152633,
3495         101375,
3496         101374,
3497         101292,
3498         101377,
3499         152634,
3500         24
3501     ]
3502 },
3503 {
3504     "AvserTillfalle": false,
3505     "Benamning": {
3506         "sv": "Kurspaket",

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3507     "en": "Course package"
3508 },
3509 "Beskrivning": {},
3510 "Dolt": false,
3511 "Giltighetsperiod": {},
3512 "Grundtyp": "KURSPAKETERING",
3513 "ID": "101291",
3514 "Kod": "2007KP",
3515 "LarosateID": -1,
3516 "Regelverk": {
3517     "Regelvarden": [
3518         {
3519             "Regelnamn": "commons.domain.regel.ar_kurspaket",
3520             "Uid": "bb699c14-0505-11ee-b40a-f28ad46341da",
3521             "Varde": "true"
3522         },
3523         {
3524             "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3525             "Uid": "bb699c13-0505-11ee-b40a-f28ad46341da",
3526             "Varde": "true"
3527         },
3528         {
3529             "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3530             "Uid": "bb697502-0505-11ee-b40a-f28ad46341da",
3531             "Varde": "grupp.for.utsokning.grundavanceradniva"
3532         }
3533     ],
3534     "Uid": "32f1032b-ec60-11e6-8a84-352cf9f6431e"
3535 },
3536 "Sorteringsordning": 5,
3537 "StudieordningID": 1,
3538 "TillfalleInomUtbildningstyper": [],
3539 "UtbildningstyperInomUtbildningstyp": [
3540     22,
3541     24
3542 ]
3543 },
3544 {
3545     "AvserTillfalle": true,
3546     "Benamning": {
3547         "sv": "Kurspakettillf\u00e4lle",
3548         "en": "Course package instance"
3549     },
3550     "Beskrivning": {},
3551     "Dolt": false,
3552     "Giltighetsperiod": {},
3553     "Grundtyp": "KURSPAKETERING",
3554     "ID": "101292",
3555     "Kod": "2007KPTF",
3556     "LarosateID": -1,
3557     "Regelverk": {

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3558     "Regelvarden": [
3559       {
3560         "Regelnamn": "commons.domain.regel.ar_kurspaket",
3561         "UId": "f676093d-0505-11ee-b40a-f28ad46341da",
3562         "Varde": "true"
3563       },
3564       {
3565         "Regelnamn": "commons.domain.regel.kan.utannonseras",
3566         "UId": "f675e22b-0505-11ee-b40a-f28ad46341da",
3567         "Varde": "true"
3568       },
3569       {
3570         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3571         "UId": "f675e229-0505-11ee-b40a-f28ad46341da",
3572         "Varde": "grupp.for.utsokning.grundavanceradniva"
3573       },
3574       {
3575         "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3576         "UId": "f675e22a-0505-11ee-b40a-f28ad46341da",
3577         "Varde": "true"
3578       },
3579       {
3580         "Regelnamn": "commons.domain.regel.atgard_vid_orimligt_omfattningsvarde",
3581         "UId": "f675e22c-0505-11ee-b40a-f28ad46341da",
3582         "Varde": "varning"
3583       }
3584     ],
3585     "UId": "0019a8ab-4c22-11e7-8c70-788c557b416a"
3586   },
3587   "Sorteringsordning": 50,
3588   "StudieordningID": 1,
3589   "TillfalleInomUtbildningstyper": [
3590     101291
3591   ],
3592   "UtbildningstyperInomUtbildningstyp": [
3593     52,
3594     22,
3595     101381,
3596     24
3597   ]
3598 },
3599 {
3600   "AvserTillfalle": false,
3601   "Benamning": {
3602     "sv": "Kurs, grundutbildning",
3603     "en": "Course, Undergraduate"
3604   },
3605   "Beskrivning": {},
3606   "Dolt": false,
3607   "Giltighetsperiod": {},
3608   "Grundtyp": "KURS",

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3609     "ID": "101370",
3610     "Kod": "1993GKURS",
3611     "LarosateID": -1,
3612     "NivaInomStudieordningID": 4,
3613     "Regelverk": {
3614         "Regelvarden": [
3615             {
3616                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3617                 "Uid": "63db66ad-e80a-11e8-b1f1-65de97d74aa5",
3618                 "Varde": "true"
3619             },
3620             {
3621                 "Regelnamn": "commons.domain.regel.avbrottsregel",
3622                 "Uid": "63db66af-e80a-11e8-b1f1-65de97d74aa5",
3623                 "Varde": "20"
3624             },
3625             {
3626                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3627                 "Uid": "63db66ae-e80a-11e8-b1f1-65de97d74aa5",
3628                 "Varde": "grupp.for.utsokning.grundavanceradniva"
3629             }
3630         ],
3631         "Uid": "bb2b5d6c-8622-11e6-89f6-efd50fc84e85"
3632     },
3633     "Sorteringsordning": 1,
3634     "StudieordningID": 2,
3635     "TillfalleInomUtbildningstyper": [],
3636     "UtbildningstyperInomUtbildningstyp": [
3637         101371
3638     ]
3639 },
3640 {
3641     "AvserTillfalle": false,
3642     "Benamning": {
3643         "sv": "Modul",
3644         "en": "Module"
3645     },
3646     "Beskrivning": {},
3647     "Dolt": false,
3648     "Giltighetsperiod": {},
3649     "Grundtyp": "MODUL",
3650     "ID": "101371",
3651     "Kod": "1993MOD",
3652     "LarosateID": -1,
3653     "Regelverk": {
3654         "Regelvarden": [
3655             {
3656                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3657                 "Uid": "af4dac07-e80a-11e8-b1f1-65de97d74aa5",
3658                 "Varde": "true"
3659             },

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3660     {
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3662         "Uid": "af4dac08-e80a-11e8-b1f1-65de97d74aa5",
3663         "Varde": "grupp.for.utsokning.grundavanceradniva"
3664     },
3665     {
3666         "Regelnamn": "commons.domain.regel.versionshanteras",
3667         "Uid": "af4dac0a-e80a-11e8-b1f1-65de97d74aa5",
3668         "Varde": "false"
3669     },
3670     {
3671         "Regelnamn": "commons.domain.regel.sjalvstandig",
3672         "Uid": "af4dac09-e80a-11e8-b1f1-65de97d74aa5",
3673         "Varde": "false"
3674     }
3675 ],
3676 "Uid": "9babbd6c-7a4e-11e6-8419-0812bb95460f"
3677 },
3678 "Sorteringsordning": 50,
3679 "StudieordningID": 2,
3680 "TillfalleInomUtbildningstyper": [],
3681 "UtbildningstyperInomUtbildningstyp": []
3682 },
3683 {
3684     "AvserTillfalle": false,
3685     "Benamning": {
3686         "sv": "Program",
3687         "en": "Programme"
3688     },
3689     "Beskrivning": {},
3690     "Dolt": false,
3691     "Giltighetsperiod": {},
3692     "Grundtyp": "KURSPAKETERING",
3693     "ID": "101372",
3694     "Kod": "1993PRG",
3695     "LarosateID": -1,
3696     "NivaInomStudieordningID": 4,
3697     "Regelverk": {
3698         "Regelvarden": [
3699             {
3700                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3701                 "Uid": "72b85ff8-e80b-11e8-b1f1-65de97d74aa5",
3702                 "Varde": "grupp.for.utsokning.grundavanceradniva"
3703             },
3704             {
3705                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3706                 "Uid": "72b85ff9-e80b-11e8-b1f1-65de97d74aa5",
3707                 "Varde": "true"
3708             }
3709         ],
3710         "Uid": "a6c1681c-ec5f-11e6-8a84-352cf9f6431e"

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3711     },
3712     "Sorteringsordning": 4,
3713     "StudieordningID": 2,
3714     "TillfalleInomUtbildningstyper": [],
3715     "UtbildningstyperInomUtbildningstyp": [
3716         101960
3717     ]
3718 },
3719 {
3720     "AvserTillfalle": false,
3721     "Benamning": {
3722         "sv": "Individuell kurs, grundniv\u00e5, inresande",
3723         "en": "Individual first-cycle course, incoming student"
3724     },
3725     "Beskrivning": {},
3726     "Dolt": false,
3727     "Giltighetsperiod": {},
3728     "Grundtyp": "KURS",
3729     "ID": "101380",
3730     "Kod": "2007IKURS",
3731     "LarosateID": -1,
3732     "NivaInomStudieordningID": 1,
3733     "Regelverk": {
3734         "Regelvarden": [
3735             {
3736                 "Regelnamn": "commons.domain.regel.versionshanteras",
3737                 "Uid": "50a8d75a-ee40-11e8-9270-17395ad8480f",
3738                 "Varde": "false"
3739             },
3740             {
3741                 "Regelnamn": "commons.domain.regel.avbrottsregel",
3742                 "Uid": "50a8d75c-ee40-11e8-9270-17395ad8480f",
3743                 "Varde": "20"
3744             },
3745             {
3746                 "Regelnamn": "commons.domain.regel.individuell",
3747                 "Uid": "50a8d759-ee40-11e8-9270-17395ad8480f",
3748                 "Varde": "true"
3749             },
3750             {
3751                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3752                 "Uid": "50a8d75b-ee40-11e8-9270-17395ad8480f",
3753                 "Varde": "grupp.for.utsokning.grundavanceradniva"
3754             },
3755             {
3756                 "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
3757                 "Uid": "50a8d757-ee40-11e8-9270-17395ad8480f",
3758                 "Varde": "true"
3759             },
3760             {
3761                 "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",

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3762         "UId": "50a8d758-ee40-11e8-9270-17395ad8480f",
3763         "Varde": "true"
3764     }
3765 ],
3766     "UId": "7c76367b-7a6b-11e6-8419-0812bb95460f"
3767 },
3768 "Sorteringsordning": 10,
3769 "StudieordningID": 1,
3770 "TillfalleInomUtbildningstyper": [],
3771 "UtbildningstyperInomUtbildningstyp": [
3772     3,
3773     4
3774 ]
3775 },
3776 {
3777     "AvserTillfalle": true,
3778     "Benamning": {
3779         "sv": "Individuellt kurstillf\u00e4lle",
3780         "en": "Individual course instance"
3781     },
3782     "Beskrivning": {},
3783     "Dolt": false,
3784     "Giltighetsperiod": {},
3785     "Grundtyp": "KURS",
3786     "ID": "101381",
3787     "Kod": "2007IKTF",
3788     "LarosateID": -1,
3789     "Regelverk": {
3790         "Regelvarden": [
3791             {
3792                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3793                 "UId": "97513ede-b803-11ed-8cb2-324fb1124949",
3794                 "Varde": "true"
3795             },
3796             {
3797                 "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
3798                 "UId": "97513ee0-b803-11ed-8cb2-324fb1124949",
3799                 "Varde": "varning"
3800             },
3801             {
3802                 "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
3803                 "UId": "97513edf-b803-11ed-8cb2-324fb1124949",
3804                 "Varde": "true"
3805             },
3806             {
3807                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3808                 "UId": "97513edc-b803-11ed-8cb2-324fb1124949",
3809                 "Varde": "grupp.for.utsokning.grundavanceradniva"
3810             },
3811             {
3812                 "Regelnamn": "commons.domain.regel.individuell",

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3813         "UId": "97513edd-b803-11ed-8cb2-324fb1124949",
3814         "Varde": "true"
3815     }
3816 ],
3817     "UId": "ce31accb-7a6b-11e6-8419-0812bb95460f"
3818 },
3819 "Sorteringsordning": 10,
3820 "StudieordningID": 1,
3821 "TillfalleInomUtbildningstyper": [
3822     105630,
3823     22,
3824     106390,
3825     105631,
3826     101380,
3827     24
3828 ],
3829 "UtbildningstyperInomUtbildningstyp": []
3830 },
3831 {
3832     "AvserTillfalle": true,
3833     "Benamning": {
3834         "sv": "Kurstillf\u00e4lle",
3835         "en": "Course instance"
3836     },
3837     "Beskrivning": {},
3838     "Dolt": false,
3839     "Giltighetsperiod": {},
3840     "Grundtyp": "KURS",
3841     "ID": "101382",
3842     "Kod": "FUPKTF",
3843     "LarosateID": -1,
3844     "Regelverk": {
3845         "Regelvarden": [
3846             {
3847                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3848                 "UId": "727b99a4-e80a-11e8-b1f1-65de97d74aa5",
3849                 "Varde": "true"
3850             },
3851             {
3852                 "Regelnamn": "commons.domain.regel.kan.utannonseras",
3853                 "UId": "727b99a3-e80a-11e8-b1f1-65de97d74aa5",
3854                 "Varde": "true"
3855             },
3856             {
3857                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
3858                 "UId": "727b99a1-e80a-11e8-b1f1-65de97d74aa5",
3859                 "Varde": "true"
3860             },
3861             {
3862                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3863                 "UId": "727b99a2-e80a-11e8-b1f1-65de97d74aa5",

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3864         "Varde": "grupp.for.utsokning.forutbildning"
3865     }
3866 ],
3867     "Uid": "72f09f80-8562-11e6-92a1-a50a597744a2"
3868 },
3869     "Sorteringsordning": 50,
3870     "StudieordningID": 3,
3871     "TillfalleInomUtbildningstyper": [
3872         101378
3873     ],
3874     "UtbildningstyperInomUtbildningstyp": []
3875 },
3876 {
3877     "AvserTillfalle": false,
3878     "Benamning": {
3879         "sv": "Utbytes\u00e5tagande, utresande",
3880         "en": "Exchange load, outgoing student"
3881     },
3882     "Beskrivning": {},
3883     "Dolt": false,
3884     "Giltighetsperiod": {},
3885     "Grundtyp": "KURS",
3886     "ID": "101730",
3887     "Kod": "2007UAT",
3888     "LarosateID": -1,
3889     "Regelverk": {
3890         "Regelvarden": [
3891             {
3892                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3893                 "Uid": "8d3ebf55-ee3f-11e8-9270-17395ad8480f",
3894                 "Varde": "grupp.for.utsokning.grundavanceradniva"
3895             },
3896             {
3897                 "Regelnamn": "commons.domain.regel.versionshanteras",
3898                 "Uid": "8d3ebf53-ee3f-11e8-9270-17395ad8480f",
3899                 "Varde": "false"
3900             },
3901             {
3902                 "Regelnamn": "commons.domain.regel.resultat",
3903                 "Uid": "8d3ebf54-ee3f-11e8-9270-17395ad8480f",
3904                 "Varde": "false"
3905             },
3906             {
3907                 "Regelnamn": "commons.domain.regel.avbrottsregel",
3908                 "Uid": "8d3ebf56-ee3f-11e8-9270-17395ad8480f",
3909                 "Varde": "20"
3910             },
3911             {
3912                 "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
3913                 "Uid": "8d3ebf52-ee3f-11e8-9270-17395ad8480f",
3914                 "Varde": "true"

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3915     },
3916     {
3917         "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
3918         "Uid": "8d3ebf51-ee3f-11e8-9270-17395ad8480f",
3919         "Varde": "true"
3920     }
3921 ],
3922 "UId": "6c9d565e-9a8f-11e6-a0ec-9788925c400e"
3923 },
3924 "Sorteringsordning": 11,
3925 "StudieordningID": 1,
3926 "TillfalleInomUtbildningstyper": [],
3927 "UtbildningstyperInomUtbildningstyp": []
3928 },
3929 {
3930     "AvserTillfalle": true,
3931     "Benamning": {
3932         "sv": "Individuellt tillf\u00e4lle f\u00f6r utbytes\u00e5tagande, utresande",
3933         "en": "Individual exchange load instance, outgoing student"
3934     },
3935     "Beskrivning": {},
3936     "Dolt": false,
3937     "Giltighetsperiod": {},
3938     "Grundtyp": "KURS",
3939     "ID": "101731",
3940     "Kod": "2007UATTF",
3941     "LarosateID": -1,
3942     "Regelverk": {
3943         "Regelvarden": [
3944             {
3945                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3946                 "UId": "693cdf00-ee3e-11e8-9270-17395ad8480f",
3947                 "Varde": "grupp.for.utsokning.grundavanceradniva"
3948             },
3949             {
3950                 "Regelnamn": "commons.domain.regel.individuell",
3951                 "UId": "693cdf02-ee3e-11e8-9270-17395ad8480f",
3952                 "Varde": "true"
3953             },
3954             {
3955                 "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
3956                 "UId": "693cdf01-ee3e-11e8-9270-17395ad8480f",
3957                 "Varde": "true"
3958             },
3959             {
3960                 "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
3961                 "UId": "693cdf03-ee3e-11e8-9270-17395ad8480f",
3962                 "Varde": "true"
3963             }
3964         ],
3965         "UId": "0b3ddbda-9a90-11e6-a0ec-9788925c400e"

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3966     },
3967     "Sorteringsordning": 50,
3968     "StudieordningID": 1,
3969     "TillfalleInomUtbildningstyper": [
3970         101730,
3971         104308
3972     ],
3973     "UtbildningstyperInomUtbildningstyp": [],
3974 },
3975 {
3976     "AvserTillfalle": false,
3977     "Benamning": {
3978         "sv": "Individuellt \u00e5tagande, forskarniv\u00e5",
3979         "en": "Individual load, Third-cycle"
3980     },
3981     "Beskrivning": {},
3982     "Dolt": false,
3983     "Giltighetsperiod": {},
3984     "Grundtyp": "KURS",
3985     "ID": "101950",
3986     "Kod": "2007FAT",
3987     "LarosateID": -1,
3988     "NivaInomStudieordningID": 3,
3989     "Regelverk": {
3990         "Regelvarden": [
3991             {
3992                 "Regelnamn": "commons.domain.regel.individuell",
3993                 "Uid": "53daf44f-e96f-11e8-9df7-dac5c1184137",
3994                 "Varde": "true"
3995             },
3996             {
3997                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3998                 "Uid": "53daf451-e96f-11e8-9df7-dac5c1184137",
3999                 "Varde": "grupp.for.utsokning.forskarniva"
4000             },
4001             {
4002                 "Regelnamn": "commons.domain.regel.versionshanteras",
4003                 "Uid": "53daf450-e96f-11e8-9df7-dac5c1184137",
4004                 "Varde": "false"
4005             },
4006             {
4007                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
4008                 "Uid": "53dacd3e-e96f-11e8-9df7-dac5c1184137",
4009                 "Varde": "true"
4010             }
4011         ],
4012         "Uid": "de8470f7-a751-11e6-bc5d-3b8bbccc4a18"
4013     },
4014     "Sorteringsordning": 9,
4015     "StudieordningID": 1,
4016     "TillfalleInomUtbildningstyper": [],

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4017     "UtbildningstyperInomUtbildningstyp": [
4018         3,
4019         4
4020     ],
4021 },
4022 {
4023     "AvserTillfalle": true,
4024     "Benamning": {
4025         "sv": "Tillf\u00e4lle f\u00f6r individuellt \u00e5tagande, forskarniv\u00e5",
4026         "en": "Individual load instance, Third-cycle"
4027     },
4028     "Beskrivning": {},
4029     "Dolt": false,
4030     "Giltighetsperiod": {},
4031     "Grundtyp": "KURS",
4032     "ID": "101951",
4033     "Kod": "2007FATTF",
4034     "LarosateID": -1,
4035     "Regelverk": {
4036         "Regelvarden": [
4037             {
4038                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
4039                 "Uid": "49741a29-e80b-11e8-b1f1-65de97d74aa5",
4040                 "Varde": "true"
4041             },
4042             {
4043                 "Regelnamn": "commons.domain.regel.individuell",
4044                 "Uid": "49741a28-e80b-11e8-b1f1-65de97d74aa5",
4045                 "Varde": "true"
4046             },
4047             {
4048                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4049                 "Uid": "49741a2a-e80b-11e8-b1f1-65de97d74aa5",
4050                 "Varde": "grupp.for.utsokning.forskarniva"
4051             }
4052         ],
4053         "Uid": "3100c652-a752-11e6-bc5d-3b8bbccc4a18"
4054     },
4055     "Sorteringsordning": 50,
4056     "StudieordningID": 1,
4057     "TillfalleInomUtbildningstyper": [
4058         101950
4059     ],
4060     "UtbildningstyperInomUtbildningstyp": []
4061 },
4062 {
4063     "AvserTillfalle": true,
4064     "Benamning": {
4065         "sv": "Individuellt tillf\u00e4lle f\u00f6r utbytes\u00e5tagande, forskarniv\u00e5, utresande",
4066         "en": "Individual exchange load instance, outgoing third-cycle student"
4067     },

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4068     "Beskrivning": {},
4069     "Dolt": false,
4070     "Giltighetsperiod": {},
4071     "Grundtyp": "KURS",
4072     "ID": "101959",
4073     "Kod": "2007FUATF",
4074     "LarosateID": -1,
4075     "Regelverk": {
4076       "Regelvarden": [
4077         {
4078           "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
4079           "Uid": "01438d23-ee3d-11e8-9270-17395ad8480f",
4080           "Varde": "true"
4081         },
4082         {
4083           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4084           "Uid": "01436612-ee3d-11e8-9270-17395ad8480f",
4085           "Varde": "grupp.for.utsokning.forskarniva"
4086         },
4087         {
4088           "Regelnamn": "commons.domain.regel.individuell",
4089           "Uid": "01438d24-ee3d-11e8-9270-17395ad8480f",
4090           "Varde": "true"
4091         }
4092       ],
4093       "Uid": "8cbdf65d-a75f-11e6-bc5d-3b8bbccc4a18"
4094     },
4095     "Sorteringsordning": 50,
4096     "StudieordningID": 1,
4097     "TillfalleInomUtbildningstyper": [
4098       101958
4099     ],
4100     "UtbildningstyperInomUtbildningstyp": []
4101   },
4102   {
4103     "AvserTillfalle": false,
4104     "Benamning": {
4105       "sv": "Inriktning",
4106       "en": "Specialisation"
4107     },
4108     "Beskrivning": {},
4109     "Dolt": false,
4110     "Giltighetsperiod": {},
4111     "Grundtyp": "KURSPAKETERING",
4112     "ID": "101960",
4113     "Kod": "1993INR",
4114     "LarosateID": -1,
4115     "NivaInomStudieordningID": 4,
4116     "Regelverk": {
4117       "Regelvarden": [
4118         {

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4119         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4120         "Uid": "08f0416a-e80a-11e8-b1f1-65de97d74aa5",
4121         "Varde": "true"
4122     },
4123     {
4124         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4125         "Uid": "08f04169-e80a-11e8-b1f1-65de97d74aa5",
4126         "Varde": "grupp.for.utsokning.grundavanceradniva"
4127     },
4128     {
4129         "Regelnamn": "commons.domain.regel.sjalvstandig",
4130         "Uid": "08f04168-e80a-11e8-b1f1-65de97d74aa5",
4131         "Varde": "false"
4132     }
4133 ],
4134 "Uid": "cd189d0f-a760-11e6-bc5d-3b8bbccc4a18"
4135 },
4136 "Sorteringsordning": 50,
4137 "StudieordningID": 2,
4138 "TillfalleInomUtbildningstyper": [],
4139 "UtbildningstyperInomUtbildningstyp": []
4140 },
4141 {
4142     "AvserTillfalle": true,
4143     "Benamning": {
4144         "sv": "Inriktningstillf\u00e4lle",
4145         "en": "Specialisation instance"
4146     },
4147     "Beskrivning": {},
4148     "Dolt": false,
4149     "Giltighetsperiod": {},
4150     "Grundtyp": "KURSPAKETERING",
4151     "ID": "101961",
4152     "Kod": "1993INRTF",
4153     "LarosateID": -1,
4154     "Regelverk": {
4155         "Regelvarde": [
4156             {
4157                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4158                 "Uid": "9754e7f8-76db-11e9-8e63-5fd9b2d24100",
4159                 "Varde": "grupp.for.utsokning.grundavanceradniva"
4160             },
4161             {
4162                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4163                 "Uid": "97553619-76db-11e9-8e63-5fd9b2d24100",
4164                 "Varde": "true"
4165             }
4166         ],
4167         "Uid": "d10fc79e-1872-11e7-88f4-cc771bf242c7"
4168     },
4169     "Sorteringsordning": 50,

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4170     "StudieordningID": 2,
4171     "TillfalleInomUtbildningstyper": [
4172         101960
4173     ],
4174     "UtbildningstyperInomUtbildningstyp": [
4175         101965,
4176         101374,
4177         105632,
4178         52,
4179         101382,
4180         101381,
4181         101964,
4182         101377,
4183         138460,
4184         101375
4185     ]
4186 },
4187 {
4188     "AvserTillfalle": false,
4189     "Benamning": {
4190         "sv": "Individuell kurs, inresande",
4191         "en": "Individual course, incoming student"
4192     },
4193     "Beskrivning": {},
4194     "Dolt": false,
4195     "Giltighetsperiod": {},
4196     "Grundtyp": "KURS",
4197     "ID": "101962",
4198     "Kod": "1993IKURS",
4199     "LarosateID": -1,
4200     "NivaInomStudieordningID": 4,
4201     "Regelverk": {
4202         "Regelvarden": [
4203             {
4204                 "Regelnamn": "commons.domain.regel.versionshanteras",
4205                 "Uid": "eaad851c-e809-11e8-b1f1-65de97d74aa5",
4206                 "Varde": "false"
4207             },
4208             {
4209                 "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
4210                 "Uid": "eaad8518-e809-11e8-b1f1-65de97d74aa5",
4211                 "Varde": "true"
4212             },
4213             {
4214                 "Regelnamn": "commons.domain.regel.avbrottsregel",
4215                 "Uid": "eaad8519-e809-11e8-b1f1-65de97d74aa5",
4216                 "Varde": "20"
4217             },
4218             {
4219                 "Regelnamn": "commons.domain.regel.individuell",
4220                 "Uid": "eaad851d-e809-11e8-b1f1-65de97d74aa5",

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4221         "Varde": "true"
4222     },
4223     {
4224         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4225         "Uid": "eaad851b-e809-11e8-b1f1-65de97d74aa5",
4226         "Varde": "grupp.for.utsokning.grundavanceradniva"
4227     },
4228     {
4229         "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
4230         "Uid": "eaad851a-e809-11e8-b1f1-65de97d74aa5",
4231         "Varde": "true"
4232     }
4233 ],
4234 "Uid": "3265a917-a764-11e6-bc5d-3b8bbccc4a18"
4235 },
4236 "Sorteringsordning": 10,
4237 "StudieordningID": 2,
4238 "TillfalleInomUtbildningstyper": [],
4239 "UtbildningstyperInomUtbildningstyp": []
4240 },
4241 {
4242     "AvserTillfalle": true,
4243     "Benamning": {
4244         "sv": "Individuellt kurstillf\u00e4lle, inresande",
4245         "en": "Individual course instance, incoming student"
4246     },
4247     "Beskrivning": {},
4248     "Dolt": false,
4249     "Giltighetsperiod": {},
4250     "Grundtyp": "KURS",
4251     "ID": "101963",
4252     "Kod": "1993IKTF",
4253     "LarosateID": -1,
4254     "Regelverk": {
4255         "Regelvarden": [
4256             {
4257                 "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
4258                 "Uid": "f8314c8e-e809-11e8-b1f1-65de97d74aa5",
4259                 "Varde": "true"
4260             },
4261             {
4262                 "Regelnamn": "commons.domain.regel.individuell",
4263                 "Uid": "f8314c8f-e809-11e8-b1f1-65de97d74aa5",
4264                 "Varde": "true"
4265             },
4266             {
4267                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4268                 "Uid": "f8314c90-e809-11e8-b1f1-65de97d74aa5",
4269                 "Varde": "grupp.for.utsokning.grundavanceradniva"
4270             },
4271             {

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4272         "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
4273         "Uid": "f8314c8d-e809-11e8-b1f1-65de97d74aa5",
4274         "Varde": "true"
4275     }
4276 ],
4277     "Uid": "56f3440b-a764-11e6-bc5d-3b8bbccc4a18"
4278 },
4279 "Sorteringsordning": 50,
4280 "StudieordningID": 2,
4281 "TillfalleInomUtbildningstyper": [
4282     101962
4283 ],
4284 "UtbildningstyperInomUtbildningstyp": []
4285 },
4286 {
4287     "AvserTillfalle": false,
4288     "Benamning": {
4289         "sv": "Utbytesavtal",
4290         "en": "Exchange agreement"
4291     },
4292     "Beskrivning": {},
4293     "Dolt": false,
4294     "Giltighetsperiod": {},
4295     "Grundtyp": "KURSPAKETERING",
4296     "ID": "101964",
4297     "Kod": "1993UA",
4298     "LarosateID": -1,
4299     "NivaInomStudieordningID": 4,
4300     "Regelverk": {
4301         "Regelvarden": [
4302             {
4303                 "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
4304                 "Uid": "451eca51-e80b-11e8-b1f1-65de97d74aa5",
4305                 "Varde": "true"
4306             },
4307             {
4308                 "Regelnamn": "commons.domain.regel.har.omfattning",
4309                 "Uid": "451eca50-e80b-11e8-b1f1-65de97d74aa5",
4310                 "Varde": "false"
4311             }
4312         ],
4313         "Uid": "8ab22e02-a764-11e6-bc5d-3b8bbccc4a18"
4314     },
4315     "Sorteringsordning": 7,
4316     "StudieordningID": 2,
4317     "TillfalleInomUtbildningstyper": [],
4318     "UtbildningstyperInomUtbildningstyp": []
4319 },
4320 {
4321     "AvserTillfalle": true,
4322     "Benamning": {

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4323     "sv": "Utbytestillf\u00e4lle, utresande",
4324     "en": "Exchange instance, outgoing students"
4325 },
4326 "Beskrivning": {},
4327 "Dolt": false,
4328 "Giltighetsperiod": {},
4329 "Grundtyp": "KURSPAKETERING",
4330 "ID": "101965",
4331 "Kod": "1993UTFU",
4332 "LarosateID": -1,
4333 "Regelverk": {
4334     "Regelvarden": [
4335         {
4336             "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
4337             "UId": "7e4e51d7-bbd7-11f0-b3d6-e5914bbf41cf",
4338             "Varde": "true"
4339         },
4340         {
4341             "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
4342             "UId": "7e4e51d6-bbd7-11f0-b3d6-e5914bbf41cf",
4343             "Varde": "true"
4344         },
4345         {
4346             "Regelnamn": "commons.domain.regel.ingar.i.grupp.utresande",
4347             "UId": "7e4e2ac5-bbd7-11f0-b3d6-e5914bbf41cf",
4348             "Varde": "true"
4349         }
4350     ],
4351     "UId": "e644795f-2bed-11e7-8421-d64931f94928"
4352 },
4353 "Sorteringsordning": 50,
4354 "StudieordningID": 2,
4355 "TillfalleInomUtbildningstyper": [
4356     101964
4357 ],
4358 "UtbildningstyperInomUtbildningstyp": [
4359     103211,
4360     163852
4361 ]
4362 },
4363 {
4364     "AvserTillfalle": false,
4365     "Benamning": {
4366         "sv": "Inriktning",
4367         "en": "Specialisation"
4368     },
4369     "Beskrivning": {},
4370     "Dolt": false,
4371     "Giltighetsperiod": {},
4372     "Grundtyp": "KURSPAKETERING",
4373     "ID": "101973",

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4374     "Kod": "FUPINR",
4375     "LarosateID": -1,
4376     "Regelverk": {
4377         "Regelvarden": [
4378             {
4379                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4380                 "Uid": "5c401d45-c4d3-11e9-ae13-dc75864a44bd",
4381                 "Varde": "true"
4382             },
4383             {
4384                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4385                 "Uid": "5c401d43-c4d3-11e9-ae13-dc75864a44bd",
4386                 "Varde": "grupp.for.utsokning.forutbildning"
4387             },
4388             {
4389                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
4390                 "Uid": "5c401d44-c4d3-11e9-ae13-dc75864a44bd",
4391                 "Varde": "true"
4392             },
4393             {
4394                 "Regelnamn": "commons.domain.regel.sjalvstandig",
4395                 "Uid": "5c401d46-c4d3-11e9-ae13-dc75864a44bd",
4396                 "Varde": "false"
4397             }
4398         ],
4399         "Uid": "35cbcf80-a76a-11e6-bc5d-3b8bbccc4a18"
4400     },
4401     "Sorteringsordning": 50,
4402     "StudieordningID": 3,
4403     "TillfalleInomUtbildningstyper": [],
4404     "UtbildningstyperInomUtbildningstyp": [
4405         22,
4406         101378
4407     ]
4408 },
4409 {
4410     "AvserTillfalle": true,
4411     "Benamning": {
4412         "sv": "Inriktningstillf\u00e4lle",
4413         "en": "Specialisation instance"
4414     },
4415     "Beskrivning": {},
4416     "Dolt": false,
4417     "Giltighetsperiod": {},
4418     "Grundtyp": "KURSPAKETERING",
4419     "ID": "101974",
4420     "Kod": "FUPINRTF",
4421     "LarosateID": -1,
4422     "Regelverk": {
4423         "Regelvarden": [
4424             {

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4425         "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
4426         "Uid": "ad81a8ce-e4b3-11f0-b251-01189c9f465b",
4427         "Varde": "true"
4428     },
4429     {
4430         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4431         "Uid": "ad81a8cc-e4b3-11f0-b251-01189c9f465b",
4432         "Varde": "true"
4433     },
4434     {
4435         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4436         "Uid": "ad81a8cd-e4b3-11f0-b251-01189c9f465b",
4437         "Varde": "grupp.for.utsokning.forutbildning"
4438     }
4439 ],
4440 "Uid": "45803524-8d66-11e7-ab6f-ced203c74a20"
4441 },
4442 "Sorteringsordning": 50,
4443 "StudieordningID": 3,
4444 "TillfalleInomUtbildningstyper": [
4445     101973
4446 ],
4447 "UtbildningstyperInomUtbildningstyp": [
4448     52,
4449     22,
4450     101382,
4451     101378,
4452     164114,
4453     164115
4454 ]
4455 },
4456 {
4457     "AvserTillfalle": false,
4458     "Benamning": {
4459         "sv": "Modul",
4460         "en": "Module"
4461     },
4462     "Beskrivning": {},
4463     "Dolt": false,
4464     "Giltighetsperiod": {},
4465     "Grundtyp": "MODUL",
4466     "ID": "101975",
4467     "Kod": "YHMOD",
4468     "LarosateID": -1,
4469     "Regelverk": {
4470         "Regelvarden": [
4471             {
4472                 "Regelnamn": "commons.domain.regel.versionshanteras",
4473                 "Uid": "d020fdf0-e80a-11e8-b1f1-65de97d74aa5",
4474                 "Varde": "false"
4475             }

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4476     {
4477         "Regelnamn": "commons.domain.regel.informationsbehorighet.yh.utbildning",
4478         "Uid": "d020fdef-e80a-11e8-b1f1-65de97d74aa5",
4479         "Varde": "true"
4480     },
4481     {
4482         "Regelnamn": "commons.domain.regel.sjalvstandig",
4483         "Uid": "d020fded-e80a-11e8-b1f1-65de97d74aa5",
4484         "Varde": "false"
4485     },
4486     {
4487         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4488         "Uid": "d020fdee-e80a-11e8-b1f1-65de97d74aa5",
4489         "Varde": "grupp.for.utsokning.yhutbildning"
4490     }
4491 ],
4492 "Uid": "39072f3e-a76b-11e6-bc5d-3b8bbccc4a18"
4493 },
4494 "Sorteringsordning": 50,
4495 "StudieordningID": 5,
4496 "TillfalleInomUtbildningstyper": [],
4497 "UtbildningstyperInomUtbildningstyp": []
4498 },
4499 {
4500     "AvserTillfalle": false,
4501     "Benamning": {
4502         "sv": "Modul utan omfattning",
4503         "en": "Module without scope"
4504     },
4505     "Beskrivning": {},
4506     "Dolt": false,
4507     "Giltighetsperiod": {},
4508     "Grundtyp": "MODUL",
4509     "ID": "101976",
4510     "Kod": "FUPMU0",
4511     "LarosateID": -1,
4512     "Regelverk": {
4513         "Regelvarde": [
4514             {
4515                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4516                 "Uid": "d7c726f4-e80a-11e8-b1f1-65de97d74aa5",
4517                 "Varde": "true"
4518             },
4519             {
4520                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4521                 "Uid": "d7c726f5-e80a-11e8-b1f1-65de97d74aa5",
4522                 "Varde": "grupp.for.utsokning.forutbildning"
4523             },
4524             {
4525                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
4526                 "Uid": "d7c726f6-e80a-11e8-b1f1-65de97d74aa5",

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4527         "Varde": "true"
4528     },
4529     {
4530         "Regelnamn": "commons.domain.regel.har.omfattning",
4531         "Uid": "d7c726f7-e80a-11e8-b1f1-65de97d74aa5",
4532         "Varde": "false"
4533     },
4534     {
4535         "Regelnamn": "commons.domain.regel.versionshanteras",
4536         "Uid": "d7c726f2-e80a-11e8-b1f1-65de97d74aa5",
4537         "Varde": "false"
4538     },
4539     {
4540         "Regelnamn": "commons.domain.regel.sjalvstandig",
4541         "Uid": "d7c726f3-e80a-11e8-b1f1-65de97d74aa5",
4542         "Varde": "false"
4543     }
4544 ],
4545 "Uid": "6afb67bd-a772-11e6-bc5d-3b8bbccc4a18"
4546 },
4547 "Sorteringsordning": 50,
4548 "StudieordningID": 3,
4549 "TillfalleInomUtbildningstyper": [],
4550 "UtbildningstyperInomUtbildningstyp": []
4551 },
4552 {
4553     "AvserTillfalle": false,
4554     "Benamning": {
4555         "sv": "Modul utan omfattning",
4556         "en": "Module without scope"
4557     },
4558     "Beskrivning": {},
4559     "Dolt": false,
4560     "Giltighetsperiod": {},
4561     "Grundtyp": "MODUL",
4562     "ID": "101990",
4563     "Kod": "UPHPMUO",
4564     "LarosateID": -1,
4565     "Regelverk": {
4566         "Regelvarde": [
4567             {
4568                 "Regelnamn": "commons.domain.regel.versionshanteras",
4569                 "Uid": "dc2eed52-e80a-11e8-b1f1-65de97d74aa5",
4570                 "Varde": "false"
4571             },
4572             {
4573                 "Regelnamn": "commons.domain.regel.sjalvstandig",
4574                 "Uid": "dc2eed4d-e80a-11e8-b1f1-65de97d74aa5",
4575                 "Varde": "false"
4576             }
4577         ]
4578     }

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4578         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4579         "Uid": "dc2eed50-e80a-11e8-b1f1-65de97d74aa5",
4580         "Varde": "grupp.for.utsokning.uppdraagsutbildning"
4581     },
4582     {
4583         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4584         "Uid": "dc2eed4e-e80a-11e8-b1f1-65de97d74aa5",
4585         "Varde": "true"
4586     },
4587     {
4588         "Regelnamn": "commons.domain.regel.har.omfattning",
4589         "Uid": "dc2eed4f-e80a-11e8-b1f1-65de97d74aa5",
4590         "Varde": "false"
4591     },
4592     {
4593         "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdraagsutbildning",
4594         "Uid": "dc2eed51-e80a-11e8-b1f1-65de97d74aa5",
4595         "Varde": "true"
4596     }
4597 ],
4598 "Uid": "5fcee668-a800-11e6-b02f-d0cc883a47fa"
4599 },
4600 "Sorteringsordning": 50,
4601 "StudieordningID": 17,
4602 "TillfalleInomUtbildningstyper": [],
4603 "UtbildningstyperInomUtbildningstyp": []
4604 },
4605 {
4606     "AvserTillfalle": false,
4607     "Benamning": {
4608         "sv": "Modul",
4609         "en": "Module"
4610     },
4611     "Beskrivning": {},
4612     "Dolt": false,
4613     "Giltighetsperiod": {},
4614     "Grundtyp": "MODUL",
4615     "ID": "101991",
4616     "Kod": "UPHPMOD",
4617     "LarosateID": -1,
4618     "Regelverk": {
4619         "Regelvarde": [
4620             {
4621                 "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdraagsutbildning",
4622                 "Uid": "c7a86966-e80a-11e8-b1f1-65de97d74aa5",
4623                 "Varde": "true"
4624             },
4625             {
4626                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4627                 "Uid": "c7a86968-e80a-11e8-b1f1-65de97d74aa5",
4628                 "Varde": "true"

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4629     },
4630     {
4631       "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4632       "Uid": "c7a86969-e80a-11e8-b1f1-65de97d74aa5",
4633       "Varde": "grupp.for.utsokning.uppdraagsutbildning"
4634     },
4635     {
4636       "Regelnamn": "commons.domain.regel.versionshanteras",
4637       "Uid": "c7a86965-e80a-11e8-b1f1-65de97d74aa5",
4638       "Varde": "false"
4639     },
4640     {
4641       "Regelnamn": "commons.domain.regel.sjalvstandig",
4642       "Uid": "c7a86967-e80a-11e8-b1f1-65de97d74aa5",
4643       "Varde": "false"
4644     }
4645   ],
4646   "Uid": "855d0160-a800-11e6-b02f-d0cc883a47fa"
4647 },
4648 "Sorteringsordning": 50,
4649 "StudieordningID": 17,
4650 "TillfalleInomUtbildningstyper": [],
4651 "UtbildningstyperInomUtbildningstyp": []
4652 },
4653 {
4654   "AvserTillfalle": false,
4655   "Benamning": {
4656     "sv": "Kurs, grundniv\u00e5",
4657     "en": "Course, First-cycle"
4658   },
4659   "Beskrivning": {},
4660   "Dolt": false,
4661   "Giltighetsperiod": {},
4662   "Grundtyp": "KURS",
4663   "ID": "101992",
4664   "Kod": "UPHPGKURS",
4665   "LarosateID": -1,
4666   "NivaInomStudieordningID": 1,
4667   "Regelverk": {
4668     "Regelvarden": [
4669       {
4670         "Regelnamn": "commons.domain.regel.avbrottsregel",
4671         "Uid": "e3e124f7-e0dd-11ec-bb44-ad608ddd4f32",
4672         "Varde": "20"
4673       },
4674       {
4675         "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
4676         "Uid": "e3e124f9-e0dd-11ec-bb44-ad608ddd4f32",
4677         "Varde": "true"
4678       }
4679     ]
4680   }
4681 }

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4680     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4681     "Uid": "e3e124f6-e0dd-11ec-bb44-ad608ddd4f32",
4682     "Varde": "true"
4683   },
4684   {
4685     "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
4686     "Uid": "e3e124f8-e0dd-11ec-bb44-ad608ddd4f32",
4687     "Varde": "true"
4688   },
4689   {
4690     "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdraagsutbildning",
4691     "Uid": "e3e124f5-e0dd-11ec-bb44-ad608ddd4f32",
4692     "Varde": "true"
4693   },
4694   {
4695     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4696     "Uid": "e3dfc563-e0dd-11ec-bb44-ad608ddd4f32",
4697     "Varde": "grupp.for.utsokning.uppdraagsutbildning"
4698   }
4699 ],
4700 "Uid": "ce0f1517-a800-11e6-b02f-d0cc883a47fa"
4701 },
4702 "Sorteringsordning": 1,
4703 "StudieordningID": 17,
4704 "TillfalleInomUtbildningstyper": [],
4705 "UtbildningstyperInomUtbildningstyp": [
4706   101990,
4707   101991
4708 ]
4709 },
4710 {
4711   "AvserTillfalle": false,
4712   "Benamning": {
4713     "sv": "Modul",
4714     "en": "Module"
4715   },
4716   "Beskrivning": {},
4717   "Dolt": false,
4718   "Giltighetsperiod": {},
4719   "Grundtyp": "MODUL",
4720   "ID": "102001",
4721   "Kod": "UPTMOD",
4722   "LarosateID": -1,
4723   "Regelverk": {
4724     "Regelvarden": [
4725       {
4726         "Regelnamn": "commons.domain.regel.versionshanteras",
4727         "Uid": "cb08d254-e80a-11e8-b1f1-65de97d74aa5",
4728         "Varde": "false"
4729       },
4730       {

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4731         "Regelnamn": "commons.domain.regel.sjalvstandig",
4732         "Uid": "cb08d253-e80a-11e8-b1f1-65de97d74aa5",
4733         "Varde": "false"
4734     }
4735 ],
4736     "UId": "9e9f8b6d-a81e-11e6-b02f-d0cc883a47fa"
4737 },
4738 "Sorteringsordning": 50,
4739 "StudieordningID": 9,
4740 "TillfalleInomUtbildningstyper": [],
4741 "UtbildningstyperInomUtbildningstyp": []
4742 },
4743 {
4744     "AvserTillfalle": true,
4745     "Benamning": {
4746         "sv": "Kurstillf\u00e4lle",
4747         "en": "Course instance"
4748     },
4749     "Beskrivning": {},
4750     "Dolt": false,
4751     "Giltighetsperiod": {},
4752     "Grundtyp": "KURS",
4753     "ID": "102002",
4754     "Kod": "UPTKTF",
4755     "LarosateID": -1,
4756     "Regelverk": {
4757         "Regelvarde": [],
4758         "UId": "98399ea8-e80a-11e8-b1f1-65de97d74aa5"
4759     },
4760     "Sorteringsordning": 50,
4761     "StudieordningID": 9,
4762     "TillfalleInomUtbildningstyper": [
4763         102000
4764     ],
4765     "UtbildningstyperInomUtbildningstyp": []
4766 },
4767 {
4768     "AvserTillfalle": false,
4769     "Benamning": {
4770         "sv": "Modul",
4771         "en": "Module"
4772     },
4773     "Beskrivning": {},
4774     "Dolt": false,
4775     "Giltighetsperiod": {},
4776     "Grundtyp": "MODUL",
4777     "ID": "102003",
4778     "Kod": "PREPMOD",
4779     "LarosateID": -1,
4780     "Regelverk": {
4781         "Regelvarde": [

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4782     {
4783         "Regelnamn": "commons.domain.regel.sjalvstandig",
4784         "Uid": "c2b8d4af-e80a-11e8-b1f1-65de97d74aa5",
4785         "Varde": "false"
4786     },
4787     {
4788         "Regelnamn": "commons.domain.regel.versionshanteras",
4789         "Uid": "c2b8d4ae-e80a-11e8-b1f1-65de97d74aa5",
4790         "Varde": "false"
4791     }
4792 ],
4793 "Uid": "2232e7df-a820-11e6-b02f-d0cc883a47fa"
4794 },
4795 "Sorteringsordning": 50,
4796 "StudieordningID": 14,
4797 "TillfalleInomUtbildningstyper": [],
4798 "UtbildningstyperInomUtbildningstyp": []
4799 },
4800 {
4801     "AvserTillfalle": false,
4802     "Benamning": {
4803         "sv": "Kurs",
4804         "en": "Course"
4805     },
4806     "Beskrivning": {},
4807     "Dolt": false,
4808     "Giltighetsperiod": {},
4809     "Grundtyp": "KURS",
4810     "ID": "102004",
4811     "Kod": "PREPKURS",
4812     "LarosateID": -1,
4813     "Regelverk": {
4814         "Regelvarden": [],
4815         "Uid": "60528818-a820-11e6-b02f-d0cc883a47fa"
4816     },
4817     "Sorteringsordning": 1,
4818     "StudieordningID": 14,
4819     "TillfalleInomUtbildningstyper": [],
4820     "UtbildningstyperInomUtbildningstyp": [
4821         102003
4822     ]
4823 },
4824 {
4825     "AvserTillfalle": true,
4826     "Benamning": {
4827         "sv": "Kurstillf\u00e4lle",
4828         "en": "Course instance"
4829     },
4830     "Beskrivning": {},
4831     "Dolt": false,
4832     "Giltighetsperiod": {},

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4833     "Grundtyp": "KURS",
4834     "ID": "102005",
4835     "Kod": "PREPKTF",
4836     "LarosateID": -1,
4837     "Regelverk": {
4838         "Regelvarden": [],
4839         "Uid": "8be668c2-e80a-11e8-b1f1-65de97d74aa5"
4840     },
4841     "Sorteringsordning": 50,
4842     "StudieordningID": 14,
4843     "TillfalleInomUtbildningstyper": [
4844         102004
4845     ],
4846     "UtbildningstyperInomUtbildningstyp": []
4847 },
4848 {
4849     "AvserTillfalle": false,
4850     "Benamning": {
4851         "sv": "Kurs",
4852         "en": "Course"
4853     },
4854     "Beskrivning": {},
4855     "Dolt": false,
4856     "Giltighetsperiod": {},
4857     "Grundtyp": "KURS",
4858     "ID": "102006",
4859     "Kod": "UPVKURS",
4860     "LarosateID": -1,
4861     "Regelverk": {
4862         "Regelvarden": [
4863             {
4864                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
4865                 "Uid": "2f028b09-e0de-11ec-bb44-ad608ddd4f32",
4866                 "Varde": "true"
4867             },
4868             {
4869                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
4870                 "Uid": "2f028b0a-e0de-11ec-bb44-ad608ddd4f32",
4871                 "Varde": "true"
4872             },
4873             {
4874                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4875                 "Uid": "2f028b07-e0de-11ec-bb44-ad608ddd4f32",
4876                 "Varde": "grupp.for.utsokning.uppdraagsutbildning"
4877             },
4878             {
4879                 "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdraagsutbildning",
4880                 "Uid": "2f028b08-e0de-11ec-bb44-ad608ddd4f32",
4881                 "Varde": "true"
4882             }
4883         ],

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4884         "Uid": "c17b77bd-a821-11e6-b02f-d0cc883a47fa"
4885     },
4886     "Sorteringsordning": 1,
4887     "StudieordningID": 18,
4888     "TillfalleInomUtbildningstyper": [],
4889     "UtbildningstyperInomUtbildningstyp": [
4890         102007
4891     ]
4892 },
4893 {
4894     "AvserTillfalle": false,
4895     "Benamning": {
4896         "sv": "Modul",
4897         "en": "Module"
4898     },
4899     "Beskrivning": {},
4900     "Dolt": false,
4901     "Giltighetsperiod": {},
4902     "Grundtyp": "MODUL",
4903     "ID": "102007",
4904     "Kod": "UPVMOD",
4905     "LarosateID": -1,
4906     "Regelverk": {
4907         "Regelvarden": [
4908             {
4909                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4910                 "Uid": "cd8c21a0-e80a-11e8-b1f1-65de97d74aa5",
4911                 "Varde": "grupp.for.utsokning.uppdraagsutbildning"
4912             },
4913             {
4914                 "Regelnamn": "commons.domain.regel.sjalvstandig",
4915                 "Uid": "cd8c219f-e80a-11e8-b1f1-65de97d74aa5",
4916                 "Varde": "false"
4917             },
4918             {
4919                 "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdraagsutbildning",
4920                 "Uid": "cd8c21a1-e80a-11e8-b1f1-65de97d74aa5",
4921                 "Varde": "true"
4922             },
4923             {
4924                 "Regelnamn": "commons.domain.regel.versionshanteras",
4925                 "Uid": "cd8c219e-e80a-11e8-b1f1-65de97d74aa5",
4926                 "Varde": "false"
4927             }
4928         ],
4929         "Uid": "4ab37285-a821-11e6-b02f-d0cc883a47fa"
4930     },
4931     "Sorteringsordning": 50,
4932     "StudieordningID": 18,
4933     "TillfalleInomUtbildningstyper": [],
4934     "UtbildningstyperInomUtbildningstyp": []

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4935     },
4936     {
4937         "AvserTillfalle": false,
4938         "Benamning": {
4939             "sv": "Program",
4940             "en": "Programme"
4941         },
4942         "Beskrivning": {},
4943         "Dolt": false,
4944         "Giltighetsperiod": {},
4945         "Grundtyp": "KURSPAKETERING",
4946         "ID": "102070",
4947         "Kod": "FUVPRG",
4948         "LarosateID": -1,
4949         "Regelverk": {
4950             "Regelvarden": [
4951                 {
4952                     "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
4953                     "Uid": "ff1795fe-e0de-11ec-bb44-ad608ddd4f32",
4954                     "Varde": "true"
4955                 },
4956                 {
4957                     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4958                     "Uid": "ff1795ff-e0de-11ec-bb44-ad608ddd4f32",
4959                     "Varde": "true"
4960                 },
4961                 {
4962                     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4963                     "Uid": "ff1795fd-e0de-11ec-bb44-ad608ddd4f32",
4964                     "Varde": "grupp.for.utsokning.forutbildning"
4965                 },
4966                 {
4967                     "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
4968                     "Uid": "ff179600-e0de-11ec-bb44-ad608ddd4f32",
4969                     "Varde": "true"
4970                 }
4971             ],
4972             "Uid": "56914cc6-ec5f-11e6-8a84-352cf9f6431e"
4973         },
4974         "Sorteringsordning": 4,
4975         "StudieordningID": 4,
4976         "TillfalleInomUtbildningstyper": [],
4977         "UtbildningstyperInomUtbildningstyp": [
4978             22,
4979             102009,
4980             102072
4981         ]
4982     },
4983     {
4984         "AvserTillfalle": true,
4985         "Benamning": {

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4986     "sv": "Programtillf\u00e4lle",
4987     "en": "Programme instance"
4988 },
4989 "Beskrivning": {},
4990 "Dolt": false,
4991 "Giltighetsperiod": {},
4992 "Grundtyp": "KURSPAKETERING",
4993 "ID": "102071",
4994 "Kod": "FUVPRGTF",
4995 "LarosateID": -1,
4996 "Regelverk": {
4997     "Regelvarden": [
4998         {
4999             "Regelnamn": "commons.domain.regel.kan.utannonseras",
5000             "UId": "45626661-b804-11ed-8cb2-324fb1124949",
5001             "Varde": "true"
5002         },
5003         {
5004             "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5005             "UId": "4562665e-b804-11ed-8cb2-324fb1124949",
5006             "Varde": "grupp.for.utsokning.forutbildning"
5007         },
5008         {
5009             "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
5010             "UId": "45626660-b804-11ed-8cb2-324fb1124949",
5011             "Varde": "true"
5012         },
5013         {
5014             "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
5015             "UId": "4562665f-b804-11ed-8cb2-324fb1124949",
5016             "Varde": "true"
5017         },
5018         {
5019             "Regelnamn": "commons.domain.regel.atgard_vid_orimligt_omfattningsvarde",
5020             "UId": "45626662-b804-11ed-8cb2-324fb1124949",
5021             "Varde": "varning"
5022         }
5023     ],
5024     "UId": "0060eaf7-4c22-11e7-8c70-788c557b416a"
5025 },
5026 "Sorteringsordning": 50,
5027 "StudieordningID": 4,
5028 "TillfalleInomUtbildningstyper": [
5029     102070
5030 ],
5031 "UtbildningstyperInomUtbildningstyp": [
5032     52,
5033     22,
5034     102011,
5035     102073,
5036     102009,

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5037         102072
5038     ]
5039 },
5040 {
5041     "AvserTillfalle": false,
5042     "Benamning": {
5043         "sv": "Inriktning",
5044         "en": "Specialisation"
5045     },
5046     "Beskrivning": {},
5047     "Dolt": false,
5048     "Giltighetsperiod": {},
5049     "Grundtyp": "KURSPAKETERING",
5050     "ID": "102072",
5051     "Kod": "FUVINR",
5052     "LarosateID": -1,
5053     "Regelverk": {
5054         "Regelvarden": [
5055             {
5056                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
5057                 "Uid": "31ef0a8b-c4d8-11e9-ae13-dc75864a44bd",
5058                 "Varde": "true"
5059             },
5060             {
5061                 "Regelnamn": "commons.domain.regel.sjalvstandig",
5062                 "Uid": "31ef0a8c-c4d8-11e9-ae13-dc75864a44bd",
5063                 "Varde": "false"
5064             },
5065             {
5066                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
5067                 "Uid": "31ef0a8a-c4d8-11e9-ae13-dc75864a44bd",
5068                 "Varde": "true"
5069             },
5070             {
5071                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5072                 "Uid": "31ef0a89-c4d8-11e9-ae13-dc75864a44bd",
5073                 "Varde": "grupp.for.utsokning.forutbildning"
5074             }
5075         ],
5076         "Uid": "c49ecb36-b097-11e6-8b31-75fe98e9451b"
5077     },
5078     "Sorteringsordning": 50,
5079     "StudieordningID": 4,
5080     "TillfalleInomUtbildningstyper": [],
5081     "UtbildningstyperInomUtbildningstyp": [
5082         22,
5083         102009
5084     ]
5085 },
5086 {
5087     "AvserTillfalle": true,

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5088     "Benamning": {
5089         "sv": "Inriktningstillf\u00e4lle",
5090         "en": "Specialisation instance"
5091     },
5092     "Beskrivning": {},
5093     "Dolt": false,
5094     "Giltighetsperiod": {},
5095     "Grundtyp": "KURSPAKETERING",
5096     "ID": "102073",
5097     "Kod": "FUVINRTF",
5098     "LarosateID": -1,
5099     "Regelverk": {
5100         "Regelvarden": [
5101             {
5102                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5103                 "UId": "d042ceeb-c4d8-11e9-ae13-dc75864a44bd",
5104                 "Varde": "grupp.for.utsokning.forutbildning"
5105             },
5106             {
5107                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
5108                 "UId": "d042ceed-c4d8-11e9-ae13-dc75864a44bd",
5109                 "Varde": "true"
5110             },
5111             {
5112                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
5113                 "UId": "d042ceec-c4d8-11e9-ae13-dc75864a44bd",
5114                 "Varde": "true"
5115             }
5116         ],
5117         "UId": "3d290b1f-8d66-11e7-ab6f-ced203c74a20"
5118     },
5119     "Sorteringsordning": 50,
5120     "StudieordningID": 4,
5121     "TillfalleInomUtbildningstyper": [
5122         102072
5123     ],
5124     "UtbildningstyperInomUtbildningstyp": [
5125         52,
5126         22,
5127         102011,
5128         102009
5129     ]
5130 },
5131 {
5132     "AvserTillfalle": false,
5133     "Benamning": {
5134         "sv": "Utbytes\u00e5tagande, utresande",
5135         "en": "Exchange load, outgoing student"
5136     },
5137     "Beskrivning": {},
5138     "Dolt": false,

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5139     "Giltighetsperiod": {},
5140     "Grundtyp": "KURS",
5141     "ID": "103210",
5142     "Kod": "1993UAT",
5143     "LarosateID": -1,
5144     "NivaInomStudieordningID": 4,
5145     "Regelverk": {
5146         "Regelvarden": [
5147             {
5148                 "Regelnamn": "commons.domain.regel.versionshanteras",
5149                 "Uid": "3086e12a-e80b-11e8-b1f1-65de97d74aa5",
5150                 "Varde": "false"
5151             },
5152             {
5153                 "Regelnamn": "commons.domain.regel.resultat",
5154                 "Uid": "3086e12e-e80b-11e8-b1f1-65de97d74aa5",
5155                 "Varde": "false"
5156             },
5157             {
5158                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5159                 "Uid": "3086e12c-e80b-11e8-b1f1-65de97d74aa5",
5160                 "Varde": "grupp.for.utsokning.grundavanceradniva"
5161             },
5162             {
5163                 "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
5164                 "Uid": "3086e12f-e80b-11e8-b1f1-65de97d74aa5",
5165                 "Varde": "true"
5166             },
5167             {
5168                 "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
5169                 "Uid": "3086e12d-e80b-11e8-b1f1-65de97d74aa5",
5170                 "Varde": "true"
5171             },
5172             {
5173                 "Regelnamn": "commons.domain.regel.avbrottsregel",
5174                 "Uid": "3086e12b-e80b-11e8-b1f1-65de97d74aa5",
5175                 "Varde": "20"
5176             }
5177         ],
5178         "Uid": "970d435e-df08-11e6-a087-d9bc48df4ffb"
5179     },
5180     "Sorteringsordning": 11,
5181     "StudieordningID": 2,
5182     "TillfalleInomUtbildningstyper": [],
5183     "UtbildningstyperInomUtbildningstyp": []
5184 },
5185 {
5186     "AvserTillfalle": true,
5187     "Benamning": {
5188         "sv": "Individuellt tillf\u00e4lle f\u00f6r utbytes\u00e5tagande, utresande",
5189         "en": "Individual exchange load instance, outgoing student"
5190     }
5191 }

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5190 },
5191 "Beskrivning": {},
5192 "Dolt": false,
5193 "Giltighetsperiod": {},
5194 "Grundtyp": "KURS",
5195 "ID": "103211",
5196 "Kod": "1993UATTF",
5197 "LarosateID": -1,
5198 "Regelverk": {
5199   "Regelvarden": [
5200     {
5201       "Regelnamn": "commons.domain.regel.individuell",
5202       "Uid": "fd7baaa2-e809-11e8-b1f1-65de97d74aa5",
5203       "Varde": "true"
5204     },
5205     {
5206       "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5207       "Uid": "fd7baaa0-e809-11e8-b1f1-65de97d74aa5",
5208       "Varde": "grupp.for.utsokning.grundavanceradniva"
5209     },
5210     {
5211       "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
5212       "Uid": "fd7baaa3-e809-11e8-b1f1-65de97d74aa5",
5213       "Varde": "true"
5214     },
5215     {
5216       "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
5217       "Uid": "fd7baaa1-e809-11e8-b1f1-65de97d74aa5",
5218       "Varde": "true"
5219     }
5220   ],
5221   "Uid": "612e1b35-df09-11e6-a087-d9bc48df4ffb"
5222 },
5223 "Sorteringsordning": 50,
5224 "StudieordningID": 2,
5225 "TillfalleInomUtbildningstyper": [
5226   103210
5227 ],
5228 "UtbildningstyperInomUtbildningstyp": []
5229 },
5230 {
5231   "AvserTillfalle": false,
5232   "Benamning": {
5233     "sv": "Individuellt utbytes\u00e5tagande, utresande",
5234     "en": "Individual exchange load, outgoing student"
5235   },
5236   "Beskrivning": {},
5237   "Dolt": false,
5238   "Giltighetsperiod": {},
5239   "Grundtyp": "KURS",
5240   "ID": "104308",

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5241     "Kod": "2007IUAT",
5242     "LarosateID": -1,
5243     "Regelverk": {
5244         "Regelvarden": [
5245             {
5246                 "Regelnamn": "commons.domain.regel.individuell",
5247                 "Uid": "d658ffc9-ee3e-11e8-9270-17395ad8480f",
5248                 "Varde": "true"
5249             },
5250             {
5251                 "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
5252                 "Uid": "d658ffc7-ee3e-11e8-9270-17395ad8480f",
5253                 "Varde": "true"
5254             },
5255             {
5256                 "Regelnamn": "commons.domain.regel.avbrottsregel",
5257                 "Uid": "d658ffc6-ee3e-11e8-9270-17395ad8480f",
5258                 "Varde": "20"
5259             },
5260             {
5261                 "Regelnamn": "commons.domain.regel.versionshanteras",
5262                 "Uid": "d658ffcb-ee3e-11e8-9270-17395ad8480f",
5263                 "Varde": "false"
5264             },
5265             {
5266                 "Regelnamn": "commons.domain.regel.resultat",
5267                 "Uid": "d658ffcc-ee3e-11e8-9270-17395ad8480f",
5268                 "Varde": "false"
5269             },
5270             {
5271                 "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
5272                 "Uid": "d658ffc8-ee3e-11e8-9270-17395ad8480f",
5273                 "Varde": "true"
5274             },
5275             {
5276                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5277                 "Uid": "d658ffca-ee3e-11e8-9270-17395ad8480f",
5278                 "Varde": "grupp.for.utsokning.grundavanceradniva"
5279             }
5280         ],
5281         "Uid": "c587e866-0da6-11e7-b8b0-4d9918684924"
5282     },
5283     "Sorteringsordning": 12,
5284     "StudieordningID": 1,
5285     "TillfalleInomUtbildningstyper": [],
5286     "UtbildningstyperInomUtbildningstyp": []
5287 },
5288 {
5289     "AvserTillfalle": false,
5290     "Benamning": {
5291         "sv": "Program",

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5292     "en": "Programme"
5293 },
5294 "Beskrivning": {},
5295 "Dolt": false,
5296 "Giltighetsperiod": {},
5297 "Grundtyp": "KURSPAKETERING",
5298 "ID": "109970",
5299 "Kod": "POLISPRG",
5300 "LarosateID": -1,
5301 "Regelverk": {
5302     "Regelvarden": [
5303         {
5304             "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5305             "UId": "6755a376-e80b-11e8-b1f1-65de97d74aa5",
5306             "Varde": "grupp.for.utsokning.polisutbildning"
5307         },
5308         {
5309             "Regelnamn": "commons.domain.regel.informationsbehorighet.polisutbildning",
5310             "UId": "6755a377-e80b-11e8-b1f1-65de97d74aa5",
5311             "Varde": "true"
5312         }
5313     ],
5314     "UId": "d204dab3-99f5-11e7-953e-c08a46b0419e"
5315 },
5316 "Sorteringsordning": 2,
5317 "StudieordningID": 109831,
5318 "TillfalleInomUtbildningstyper": [],
5319 "UtbildningstyperInomUtbildningstyp": [
5320     138692,
5321     109972,
5322     138693
5323 ]
5324 },
5325 {
5326     "AvserTillfalle": false,
5327     "Benamning": {
5328         "sv": "Modul",
5329         "en": "Module"
5330     },
5331     "Beskrivning": {},
5332     "Dolt": false,
5333     "Giltighetsperiod": {},
5334     "Grundtyp": "MODUL",
5335     "ID": "109971",
5336     "Kod": "POLISMOD",
5337     "LarosateID": -1,
5338     "Regelverk": {
5339         "Regelvarden": [
5340             {
5341                 "Regelnamn": "commons.domain.regel.versionshanterars",
5342                 "UId": "c07770b5-e80a-11e8-b1f1-65de97d74aa5",

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5343         "Varde": "false"
5344     },
5345     {
5346         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5347         "Uid": "c07770b6-e80a-11e8-b1f1-65de97d74aa5",
5348         "Varde": "grupp.for.utsokning.polisutbildning"
5349     },
5350     {
5351         "Regelnamn": "commons.domain.regel.informationsbehorighet.polisutbildning",
5352         "Uid": "c07770b7-e80a-11e8-b1f1-65de97d74aa5",
5353         "Varde": "true"
5354     },
5355     {
5356         "Regelnamn": "commons.domain.regel.sjalvstandig",
5357         "Uid": "c07770b4-e80a-11e8-b1f1-65de97d74aa5",
5358         "Varde": "false"
5359     }
5360 ],
5361 "Uid": "ff6cb13c-99f5-11e7-953e-c08a46b0419e"
5362 },
5363 "Sorteringsordning": 50,
5364 "StudieordningID": 109831,
5365 "TillfalleInomUtbildningstyper": [],
5366 "UtbildningstyperInomUtbildningstyp": []
5367 },
5368 {
5369     "AvserTillfalle": false,
5370     "Benamning": {
5371         "sv": "Kurs",
5372         "en": "Course"
5373     },
5374     "Beskrivning": {},
5375     "Dolt": false,
5376     "Giltighetsperiod": {},
5377     "Grundtyp": "KURS",
5378     "ID": "109972",
5379     "Kod": "POLISKURS",
5380     "LarosateID": -1,
5381     "Regelverk": {
5382         "Regelvarde": [
5383             {
5384                 "Regelnamn": "commons.domain.regel.informationsbehorighet.polisutbildning",
5385                 "Uid": "3d07104e-e80a-11e8-b1f1-65de97d74aa5",
5386                 "Varde": "true"
5387             },
5388             {
5389                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5390                 "Uid": "3d07104d-e80a-11e8-b1f1-65de97d74aa5",
5391                 "Varde": "grupp.for.utsokning.polisutbildning"
5392             }
5393         ]

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5394         "UId": "239a527a-99f6-11e7-953e-c08a46b0419e"
5395     },
5396     "Sorteringsordning": 1,
5397     "StudieordningID": 109831,
5398     "TillfalleInomUtbildningstyper": [],
5399     "UtbildningstyperInomUtbildningstyp": [
5400         109971
5401     ]
5402 },
5403 {
5404     "AvserTillfalle": true,
5405     "Benamning": {
5406         "sv": "Kurstillf\u00e4lle",
5407         "en": "Course instance"
5408     },
5409     "Beskrivning": {},
5410     "Dolt": false,
5411     "Giltighetsperiod": {},
5412     "Grundtyp": "KURS",
5413     "ID": "109973",
5414     "Kod": "POLISKTF",
5415     "LarosateID": -1,
5416     "Regelverk": {
5417         "Regelvarden": [
5418             {
5419                 "Regelnamn": "commons.domain.regel.informationsbehorighet.polisutbildning",
5420                 "UId": "7fd914b8-e80a-11e8-b1f1-65de97d74aa5",
5421                 "Varde": "true"
5422             },
5423             {
5424                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5425                 "UId": "7fd914b9-e80a-11e8-b1f1-65de97d74aa5",
5426                 "Varde": "grupp.for.utsokning.polisutbildning"
5427             }
5428         ],
5429         "UId": "4eb5ef4d-99f6-11e7-953e-c08a46b0419e"
5430     },
5431     "Sorteringsordning": 50,
5432     "StudieordningID": 109831,
5433     "TillfalleInomUtbildningstyper": [
5434         109972
5435     ],
5436     "UtbildningstyperInomUtbildningstyp": []
5437 },
5438 {
5439     "AvserTillfalle": true,
5440     "Benamning": {
5441         "sv": "Programtillf\u00e4lle",
5442         "en": "Programme instance"
5443     },
5444     "Beskrivning": {},

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5445     "Dolt": false,
5446     "Giltighetsperiod": {},
5447     "Grundtyp": "KURSPAKETERING",
5448     "ID": "109974",
5449     "Kod": "POLISPRGTF",
5450     "LarosateID": -1,
5451     "Regelverk": {
5452       "Regelvarden": [
5453         {
5454           "Regelnamn": "commons.domain.regel.informationsbehorighet.polisutbildning",
5455           "Uid": "5266e7a2-e80b-11e8-b1f1-65de97d74aa5",
5456           "Varde": "true"
5457         },
5458         {
5459           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5460           "Uid": "5266e7a1-e80b-11e8-b1f1-65de97d74aa5",
5461           "Varde": "grupp.for.utsokning.polisutbildning"
5462         }
5463       ],
5464       "Uid": "9d3c5242-99f6-11e7-953e-c08a46b0419e"
5465     },
5466     "Sorteringsordning": 50,
5467     "StudieordningID": 109831,
5468     "TillfalleInomUtbildningstyper": [
5469       109970
5470     ],
5471     "UtbildningstyperInomUtbildningstyp": [
5472       138696,
5473       138692,
5474       109972,
5475       138693,
5476       109973
5477     ]
5478   },
5479   {
5480     "AvserTillfalle": false,
5481     "Benamning": {
5482       "sv": "YH-utbildning",
5483       "en": "HVE programme"
5484     },
5485     "Beskrivning": {},
5486     "Dolt": false,
5487     "Giltighetsperiod": {},
5488     "Grundtyp": "KURSPAKETERING",
5489     "ID": "109977",
5490     "Kod": "YHUTB",
5491     "LarosateID": -1,
5492     "Regelverk": {
5493       "Regelvarden": [
5494         {
5495           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",

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5496         "Uid": "c2758cbb-c654-11ee-babe-c910fc24407b",
5497         "Varde": "grupp.for.utsokning.yhutbildning"
5498     },
5499     {
5500         "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
5501         "Uid": "c275b3cd-c654-11ee-babe-c910fc24407b",
5502         "Varde": "true"
5503     },
5504     {
5505         "Regelnamn": "commons.domain.regel.informationsbehorighet.yh.utbildning",
5506         "Uid": "c275b3cc-c654-11ee-babe-c910fc24407b",
5507         "Varde": "true"
5508     }
5509 ],
5510 "Uid": "bf8f10c4-99f9-11e7-953e-c08a46b0419e"
5511 },
5512 "Sorteringsordning": 2,
5513 "StudieordningID": 5,
5514 "TillfalleInomUtbildningstyper": [],
5515 "UtbildningstyperInomUtbildningstyp": [
5516     109978
5517 ]
5518 },
5519 {
5520     "AvserTillfalle": false,
5521     "Benamning": {
5522         "sv": "Kurs",
5523         "en": "Course"
5524     },
5525     "Beskrivning": {},
5526     "Dolt": false,
5527     "Giltighetsperiod": {},
5528     "Grundtyp": "KURS",
5529     "ID": "109978",
5530     "Kod": "YHKURS",
5531     "LarosateID": -1,
5532     "Regelverk": {
5533         "Regelvarden": [
5534             {
5535                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5536                 "Uid": "dcc8703f-c654-11ee-babe-c910fc24407b",
5537                 "Varde": "grupp.for.utsokning.yhutbildning"
5538             },
5539             {
5540                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
5541                 "Uid": "dcc87041-c654-11ee-babe-c910fc24407b",
5542                 "Varde": "true"
5543             },
5544             {
5545                 "Regelnamn": "commons.domain.regel.informationsbehorighet.yh.utbildning",
5546                 "Uid": "dcc87040-c654-11ee-babe-c910fc24407b",

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5547         "Varde": "true"
5548     }
5549 ],
5550     "Uid": "e29ee521-99f9-11e7-953e-c08a46b0419e"
5551 },
5552 "Sorteringsordning": 1,
5553 "StudieordningID": 5,
5554 "TillfalleInomUtbildningstyper": [],
5555 "UtbildningstyperInomUtbildningstyp": [
5556     101975
5557 ]
5558 },
5559 {
5560     "AvserTillfalle": true,
5561     "Benamning": {
5562         "sv": "Kurstillf\u00e4lle",
5563         "en": "Course instance"
5564     },
5565     "Beskrivning": {},
5566     "Dolt": false,
5567     "Giltighetsperiod": {},
5568     "Grundtyp": "KURS",
5569     "ID": "121176",
5570     "Kod": "FHSKTF",
5571     "LarosateID": -1,
5572     "Regelverk": {
5573         "Regelvarden": [],
5574         "Uid": "4f1ca850-dcec-11e7-9840-bee5623b4e1b"
5575     },
5576     "Sorteringsordning": 50,
5577     "StudieordningID": 16,
5578     "TillfalleInomUtbildningstyper": [
5579         121175
5580     ],
5581     "UtbildningstyperInomUtbildningstyp": []
5582 },
5583 {
5584     "AvserTillfalle": false,
5585     "Benamning": {
5586         "sv": "Modul",
5587         "en": "Module"
5588     },
5589     "Beskrivning": {},
5590     "Dolt": false,
5591     "Giltighetsperiod": {},
5592     "Grundtyp": "MODUL",
5593     "ID": "121177",
5594     "Kod": "FHSMOD",
5595     "LarosateID": -1,
5596     "Regelverk": {
5597         "Regelvarden": [

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5598     {
5599         "Regelnamn": "commons.domain.regel.versionshanteras",
5600         "Uid": "b3b37666-e80a-11e8-b1f1-65de97d74aa5",
5601         "Varde": "false"
5602     },
5603     {
5604         "Regelnamn": "commons.domain.regel.sjalvstandig",
5605         "Uid": "b3b37665-e80a-11e8-b1f1-65de97d74aa5",
5606         "Varde": "false"
5607     }
5608 ],
5609 "Uid": "8b1f5b11-dcec-11e7-9840-bee5623b4e1b"
5610 },
5611 "Sorteringsordning": 50,
5612 "StudieordningID": 16,
5613 "TillfalleInomUtbildningstyper": [],
5614 "UtbildningstyperInomUtbildningstyp": []
5615 },
5616 {
5617     "AvserTillfalle": false,
5618     "Benamning": {
5619         "sv": "Modul",
5620         "en": "Module"
5621     },
5622     "Beskrivning": {},
5623     "Dolt": false,
5624     "Giltighetsperiod": {},
5625     "Grundtyp": "MODUL",
5626     "ID": "121257",
5627     "Kod": "FUTMOD",
5628     "LarosateID": -1,
5629     "Regelverk": {
5630         "Regelvarden": [
5631             {
5632                 "Regelnamn": "commons.domain.regel.versionshanteras",
5633                 "Uid": "b816f7ab-e80a-11e8-b1f1-65de97d74aa5",
5634                 "Varde": "false"
5635             },
5636             {
5637                 "Regelnamn": "commons.domain.regel.sjalvstandig",
5638                 "Uid": "b816f7ac-e80a-11e8-b1f1-65de97d74aa5",
5639                 "Varde": "false"
5640             }
5641         ],
5642         "Uid": "b8cdc67a-dffe-11e7-9f28-4af5bbf04807"
5643     },
5644     "Sorteringsordning": 50,
5645     "StudieordningID": 12,
5646     "TillfalleInomUtbildningstyper": [],
5647     "UtbildningstyperInomUtbildningstyp": []
5648 },

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5649     {
5650         "AvserTillfalle": false,
5651         "Benamning": {
5652             "sv": "Kurs",
5653             "en": "Course"
5654         },
5655         "Beskrivning": {},
5656         "Dolt": false,
5657         "Giltighetsperiod": {},
5658         "Grundtyp": "KURS",
5659         "ID": "121258",
5660         "Kod": "FUTKURS",
5661         "LarosateID": -1,
5662         "Regelverk": {
5663             "Regelvarden": [],
5664             "Uid": "1e4879a5-dfff-11e7-9f28-4af5bbf04807"
5665         },
5666         "Sorteringsordning": 1,
5667         "StudieordningID": 12,
5668         "TillfalleInomUtbildningstyper": [],
5669         "UtbildningstyperInomUtbildningstyp": [
5670             121257
5671         ]
5672     },
5673     {
5674         "AvserTillfalle": true,
5675         "Benamning": {
5676             "sv": "Kurstillf\u00e4lle",
5677             "en": "Course instance"
5678         },
5679         "Beskrivning": {},
5680         "Dolt": false,
5681         "Giltighetsperiod": {},
5682         "Grundtyp": "KURS",
5683         "ID": "121259",
5684         "Kod": "FUTKTF",
5685         "LarosateID": -1,
5686         "Regelverk": {
5687             "Regelvarden": [],
5688             "Uid": "6e7a90b4-dfff-11e7-9f28-4af5bbf04807"
5689         },
5690         "Sorteringsordning": 50,
5691         "StudieordningID": 12,
5692         "TillfalleInomUtbildningstyper": [
5693             121258
5694         ],
5695         "UtbildningstyperInomUtbildningstyp": []
5696     },
5697     {
5698         "AvserTillfalle": false,
5699         "Benamning": {

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5700         "sv": "Kurs, forskarniv\u00e5 (inkl. attribut fr\u00e5n grundniv\u00e5 och avancerad niv\u00e5)"
5701         "en": "Course, Third-cycle (including first-cycle and second-cycle attributes)"
5702     },
5703     "Beskrivning": {
5704         "sv": "Anv\u00e4nds endast f\u00f6r konverterad information."
5705     },
5706     "Dolt": false,
5707     "Giltighetsperiod": {},
5708     "Grundtyp": "KURS",
5709     "ID": "121910",
5710     "Kod": "20073KURS",
5711     "LarosateID": -1,
5712     "NivaInomStudieordningID": 3,
5713     "Regelverk": {
5714         "Regelvarden": [
5715             {
5716                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5717                 "Uid": "0e38c1d7-e97b-11e8-9df7-dac5c1184137",
5718                 "Varde": "grupp.for.utsokning.forskarniva"
5719             },
5720             {
5721                 "Regelnamn": "commons.domain.regel.avbrottsregel",
5722                 "Uid": "0e38c1d6-e97b-11e8-9df7-dac5c1184137",
5723                 "Varde": "20"
5724             }
5725         ],
5726         "Uid": "c1929213-0352-11e8-8ac5-d02de0e647cc"
5727     },
5728     "Sorteringsordning": 50,
5729     "StudieordningID": 1,
5730     "TillfalleInomUtbildningstyper": [],
5731     "UtbildningstyperInomUtbildningstyp": [
5732         4
5733     ]
5734 },
5735 {
5736     "AvserTillfalle": true,
5737     "Benamning": {
5738         "sv": "Kurstillf\u00e4lle, forskarniv\u00e5 (inkl. attribut fr\u00e5n grundniv\u00e5 och avance
5739         "en": "Course instance, Third-cycle (including first-cycle and second-cycle attributes)"
5740     },
5741     "Beskrivning": {
5742         "sv": "Anv\u00e4nds endast f\u00f6r konverterad information."
5743     },
5744     "Dolt": false,
5745     "Giltighetsperiod": {},
5746     "Grundtyp": "KURS",
5747     "ID": "121911",
5748     "Kod": "20073KTF",
5749     "LarosateID": -1,
5750     "Regelverk": {

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5751     "Regelvarden": [
5752       {
5753         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5754         "Uid": "c9c637ea-e97b-11e8-9df7-dac5c1184137",
5755         "Varde": "grupp.for.utsokning.forskarniva"
5756       }
5757     ],
5758     "Uid": "48f2f1e7-0353-11e8-8ac5-d02de0e647cc"
5759   },
5760   "Sorteringsordning": 50,
5761   "StudieordningID": 1,
5762   "TillfalleInomUtbildningstyper": [
5763     121910
5764   ],
5765   "UtbildningstyperInomUtbildningstyp": []
5766 },
5767 {
5768   "AvserTillfalle": false,
5769   "Benamning": {
5770     "sv": "Modul utan omfattning",
5771     "en": "Module without scope"
5772   },
5773   "Beskrivning": {},
5774   "Dolt": false,
5775   "Giltighetsperiod": {},
5776   "Grundtyp": "MODUL",
5777   "ID": "138695",
5778   "Kod": "PU18MUO",
5779   "LarosateID": -1,
5780   "Regelverk": {
5781     "Regelvarden": [
5782       {
5783         "Regelnamn": "commons.domain.regel.informationsbehorighet.polisutbildning",
5784         "Uid": "d9eb3f31-e80a-11e8-b1f1-65de97d74aa5",
5785         "Varde": "true"
5786       },
5787       {
5788         "Regelnamn": "commons.domain.regel.versionshanteras",
5789         "Uid": "d9eb3f32-e80a-11e8-b1f1-65de97d74aa5",
5790         "Varde": "false"
5791       },
5792       {
5793         "Regelnamn": "commons.domain.regel.sjalvstandig",
5794         "Uid": "d9eb3f33-e80a-11e8-b1f1-65de97d74aa5",
5795         "Varde": "false"
5796       },
5797       {
5798         "Regelnamn": "commons.domain.regel.har.omfattning",
5799         "Uid": "d9eb3f34-e80a-11e8-b1f1-65de97d74aa5",
5800         "Varde": "false"
5801       }

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5802         {
5803             "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5804             "Uid": "d9eb3f30-e80a-11e8-b1f1-65de97d74aa5",
5805             "Varde": "grupp.for.utsokning.polisutbildning"
5806         }
5807     ],
5808     "UId": "460a134e-d6ff-11e8-9ff0-687a8474457e"
5809 },
5810 "Sorteringsordning": 50,
5811 "StudieordningID": 135370,
5812 "TillfalleInomUtbildningstyper": [],
5813 "UtbildningstyperInomUtbildningstyp": []
5814 },
5815 {
5816     "AvserTillfalle": true,
5817     "Benamning": {
5818         "sv": "Kurstillf\u00e4lle",
5819         "en": "Course instance"
5820     },
5821     "Beskrivning": {},
5822     "Dolt": false,
5823     "Giltighetsperiod": {},
5824     "Grundtyp": "KURS",
5825     "ID": "138696",
5826     "Kod": "PU18KTF",
5827     "LarosateID": -1,
5828     "Regelverk": {
5829         "Regelvarden": [
5830             {
5831                 "Regelnamn": "commons.domain.regel.kan.utannonseras",
5832                 "UId": "7ad34d7c-8360-11ec-b5c0-b03dbaf5459c",
5833                 "Varde": "true"
5834             },
5835             {
5836                 "Regelnamn": "commons.domain.regel.informationsbehorighet.polisutbildning",
5837                 "UId": "7ad34d7a-8360-11ec-b5c0-b03dbaf5459c",
5838                 "Varde": "true"
5839             },
5840             {
5841                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
5842                 "UId": "7ad34d7b-8360-11ec-b5c0-b03dbaf5459c",
5843                 "Varde": "true"
5844             },
5845             {
5846                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5847                 "UId": "7ad34d79-8360-11ec-b5c0-b03dbaf5459c",
5848                 "Varde": "grupp.for.utsokning.polisutbildning"
5849             }
5850         ],
5851         "UId": "b64687ba-d6ff-11e8-9ff0-687a8474457e"
5852     },

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5853     "Sorteringsordning": 1,
5854     "StudieordningID": 135370,
5855     "TillfalleInomUtbildningstyper": [
5856         138692,
5857         138693
5858     ],
5859     "UtbildningstyperInomUtbildningstyp": [],
5860 },
5861 {
5862     "AvserTillfalle": false,
5863     "Benamning": {
5864         "sv": "Program",
5865         "en": "Programme"
5866     },
5867     "Beskrivning": {},
5868     "Dolt": false,
5869     "Giltighetsperiod": {},
5870     "Grundtyp": "KURSPAKETERING",
5871     "ID": "143781",
5872     "Kod": "PU18PRG",
5873     "LarosateID": -1,
5874     "Regelverk": {
5875         "Regelvarden": [
5876             {
5877                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
5878                 "Uid": "b594ca11-ab94-11ed-996b-7b1fac574545",
5879                 "Varde": "true"
5880             },
5881             {
5882                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5883                 "Uid": "b5947bef-ab94-11ed-996b-7b1fac574545",
5884                 "Varde": "grupp.for.utsokning.polisutbildning"
5885             },
5886             {
5887                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
5888                 "Uid": "b594ca12-ab94-11ed-996b-7b1fac574545",
5889                 "Varde": "true"
5890             },
5891             {
5892                 "Regelnamn": "commons.domain.regel.informationsbehorighet.polisutbildning",
5893                 "Uid": "b594ca10-ab94-11ed-996b-7b1fac574545",
5894                 "Varde": "true"
5895             }
5896         ],
5897         "Uid": "422ea321-f7d4-11e8-86c4-d6314f174dae"
5898     },
5899     "Sorteringsordning": 4,
5900     "StudieordningID": 135370,
5901     "TillfalleInomUtbildningstyper": [],
5902     "UtbildningstyperInomUtbildningstyp": [
5903         138692,

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5904         109972,
5905         138693
5906     ]
5907 },
5908 {
5909     "AvserTillfalle": true,
5910     "Benamning": {
5911         "sv": "Programtillf\u00e4lle",
5912         "en": "Programme instance"
5913     },
5914     "Beskrivning": {},
5915     "Dolt": false,
5916     "Giltighetsperiod": {},
5917     "Grundtyp": "KURSPAKETERING",
5918     "ID": "143782",
5919     "Kod": "PU18PRGTF",
5920     "LarosateID": -1,
5921     "Regelverk": {
5922         "Regelvarden": [
5923             {
5924                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
5925                 "Uid": "94de0552-8360-11ec-b5c0-b03dbaf5459c",
5926                 "Varde": "true"
5927             },
5928             {
5929                 "Regelnamn": "commons.domain.regel.informationsbehorighet.polisutbildning",
5930                 "Uid": "94de0551-8360-11ec-b5c0-b03dbaf5459c",
5931                 "Varde": "true"
5932             },
5933             {
5934                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5935                 "Uid": "94de0550-8360-11ec-b5c0-b03dbaf5459c",
5936                 "Varde": "grupp.for.utsokning.polisutbildning"
5937             }
5938         ],
5939         "Uid": "ec4b9b4c-f7d6-11e8-86c4-d6314f174dae"
5940     },
5941     "Sorteringsordning": 50,
5942     "StudieordningID": 135370,
5943     "TillfalleInomUtbildningstyper": [
5944         143781
5945     ],
5946     "UtbildningstyperInomUtbildningstyp": [
5947         138696,
5948         138692,
5949         109972,
5950         138693,
5951         109973
5952     ]
5953 },
5954 {

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```

5955     "AvserTillfalle": false,
5956     "Benamning": {
5957         "sv": "Kurspaket",
5958         "en": "Course package"
5959     },
5960     "Beskrivning": {},
5961     "Dolt": false,
5962     "Giltighetsperiod": {},
5963     "Grundtyp": "KURSPAKETERING",
5964     "ID": "147785",
5965     "Kod": "FUPKP",
5966     "LarosateID": -1,
5967     "Regelverk": {
5968         "Regelvarden": [
5969             {
5970                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
5971                 "Uid": "cdb0908f-0505-11ee-b40a-f28ad46341da",
5972                 "Varde": "true"
5973             },
5974             {
5975                 "Regelnamn": "commons.domain.regel.ar_kurspaket",
5976                 "Uid": "cdb09091-0505-11ee-b40a-f28ad46341da",
5977                 "Varde": "true"
5978             },
5979             {
5980                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5981                 "Uid": "cdb0908e-0505-11ee-b40a-f28ad46341da",
5982                 "Varde": "grupp.for.utsokning.forutbildning"
5983             },
5984             {
5985                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
5986                 "Uid": "cdb09090-0505-11ee-b40a-f28ad46341da",
5987                 "Varde": "true"
5988             }
5989         ],
5990         "Uid": "f38543aa-ff9f-11e8-9a8a-130b7e0d48d4"
5991     },
5992     "Sorteringsordning": 50,
5993     "StudieordningID": 3,
5994     "TillfalleInomUtbildningstyper": [],
5995     "UtbildningstyperInomUtbildningstyp": [
5996         22,
5997         101378
5998     ]
5999 },
6000 {
6001     "AvserTillfalle": true,
6002     "Benamning": {
6003         "sv": "Kurspakettillf\u00e4lle",
6004         "en": "Course package instance"
6005     },

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6006     "Beskrivning": {},
6007     "Dolt": false,
6008     "Giltighetsperiod": {},
6009     "Grundtyp": "KURSPAKETERING",
6010     "ID": "147786",
6011     "Kod": "FUPKPTF",
6012     "LarosateID": -1,
6013     "Regelverk": {
6014       "Regelvarden": [
6015         {
6016           "Regelnamn": "commons.domain.regel.ar_kurspaket",
6017           "Uid": "318c0ba4-0509-11ee-b40a-f28ad46341da",
6018           "Varde": "true"
6019         },
6020         {
6021           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6022           "Uid": "318c0b9f-0509-11ee-b40a-f28ad46341da",
6023           "Varde": "grupp.for.utsokning.forutbildning"
6024         },
6025         {
6026           "Regelnamn": "commons.domain.regel.atgard_vid_orimligt_omfattningsvarde",
6027           "Uid": "318c0ba3-0509-11ee-b40a-f28ad46341da",
6028           "Varde": "varning"
6029         },
6030         {
6031           "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
6032           "Uid": "318c0ba1-0509-11ee-b40a-f28ad46341da",
6033           "Varde": "true"
6034         },
6035         {
6036           "Regelnamn": "commons.domain.regel.kan.utannonseras",
6037           "Uid": "318c0ba2-0509-11ee-b40a-f28ad46341da",
6038           "Varde": "true"
6039         },
6040         {
6041           "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
6042           "Uid": "318c0ba0-0509-11ee-b40a-f28ad46341da",
6043           "Varde": "true"
6044         }
6045       ],
6046       "Uid": "b0e89549-ffa1-11e8-9a8a-130b7e0d48d4"
6047     },
6048     "Sorteringsordning": 50,
6049     "StudieordningID": 3,
6050     "TillfalleInomUtbildningstyper": [
6051       147785
6052     ],
6053     "UtbildningstyperInomUtbildningstyp": [
6054       52,
6055       22,
6056       101382,
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6057         101378
6058     ]
6059 },
6060 {
6061     "AvserTillfalle": false,
6062     "Benamning": {
6063         "sv": "Modul",
6064         "en": "Module"
6065     },
6066     "Beskrivning": {},
6067     "Dolt": false,
6068     "Giltighetsperiod": {},
6069     "Grundtyp": "MODUL",
6070     "ID": "147908",
6071     "Kod": "UPTMOD19",
6072     "LarosateID": -1,
6073     "Regelverk": {
6074         "Regelvarden": [
6075             {
6076                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6077                 "Uid": "405920a6-1b2a-11e9-beb8-23b395e64549",
6078                 "Varde": "grupp.for.utsokning.uppdraagsutbildning"
6079             },
6080             {
6081                 "Regelnamn": "commons.domain.regel.versionshanteras",
6082                 "Uid": "405920a4-1b2a-11e9-beb8-23b395e64549",
6083                 "Varde": "false"
6084             },
6085             {
6086                 "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdraagsutbildning",
6087                 "Uid": "405920a5-1b2a-11e9-beb8-23b395e64549",
6088                 "Varde": "true"
6089             },
6090             {
6091                 "Regelnamn": "commons.domain.regel.sjalvstandig",
6092                 "Uid": "405920a3-1b2a-11e9-beb8-23b395e64549",
6093                 "Varde": "false"
6094             }
6095         ],
6096         "Uid": "405920a2-1b2a-11e9-beb8-23b395e64549"
6097     },
6098     "Sorteringsordning": 50,
6099     "StudieordningID": 147898,
6100     "TillfalleInomUtbildningstyper": [],
6101     "UtbildningstyperInomUtbildningstyp": []
6102 },
6103 {
6104     "AvserTillfalle": false,
6105     "Benamning": {
6106         "sv": "Deltagande utan omfattning, forskarniv\u00e5",
6107         "en": "Participation without scope, third cycle student"

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6108     },
6109     "Beskrivning": {},
6110     "Dolt": false,
6111     "Giltighetsperiod": {},
6112     "Grundtyp": "KURS",
6113     "ID": "152631",
6114     "Kod": "2007FDU",
6115     "LarosateID": -1,
6116     "NivaInomStudieordningID": 3,
6117     "Regelverk": {
6118         "Regelvarden": [
6119             {
6120                 "Regelnamn": "commons.domain.regel.versionshanteras",
6121                 "UId": "242e4c46-4629-11ec-8ce5-829094194c50",
6122                 "Varde": "true"
6123             },
6124             {
6125                 "Regelnamn": "commons.domain.regel.resultat",
6126                 "UId": "242e4c45-4629-11ec-8ce5-829094194c50",
6127                 "Varde": "false"
6128             },
6129             {
6130                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6131                 "UId": "242b6611-4629-11ec-8ce5-829094194c50",
6132                 "Varde": "grupp.for.utsokning.forskarniva"
6133             },
6134             {
6135                 "Regelnamn": "commons.domain.regel.har.omfattning",
6136                 "UId": "242e4c42-4629-11ec-8ce5-829094194c50",
6137                 "Varde": "false"
6138             },
6139             {
6140                 "Regelnamn": "commons.domain.regel.individuell",
6141                 "UId": "242e4c43-4629-11ec-8ce5-829094194c50",
6142                 "Varde": "false"
6143             },
6144             {
6145                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
6146                 "UId": "242e4c44-4629-11ec-8ce5-829094194c50",
6147                 "Varde": "true"
6148             }
6149         ],
6150         "UId": "242b6610-4629-11ec-8ce5-829094194c50"
6151     },
6152     "Sorteringsordning": 50,
6153     "StudieordningID": 1,
6154     "TillfalleInomUtbildningstyper": [],
6155     "UtbildningstyperInomUtbildningstyp": []
6156 },
6157 {
6158     "AvserTillfalle": true,

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6159     "Benamning": {
6160         "sv": "Individuellt tillf\u00e4lle f\u00f6r deltagande utan omfattning, forskarniv\u00e5",
6161         "en": "Individual course instance for participation without scope, third cycle student"
6162     },
6163     "Beskrivning": {},
6164     "Dolt": false,
6165     "Giltighetsperiod": {},
6166     "Grundtyp": "KURS",
6167     "ID": "152632",
6168     "Kod": "2007FDUIT",
6169     "LarosateID": -1,
6170     "Regelverk": {
6171         "Regelvarden": [
6172             {
6173                 "Regelnamn": "commons.domain.regel.individuell",
6174                 "Uid": "c3d4f6b3-4629-11ec-8ce5-829094194c50",
6175                 "Varde": "true"
6176             },
6177             {
6178                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
6179                 "Uid": "c3d4f6b4-4629-11ec-8ce5-829094194c50",
6180                 "Varde": "true"
6181             },
6182             {
6183                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6184                 "Uid": "c3d4f6b2-4629-11ec-8ce5-829094194c50",
6185                 "Varde": "grupp.for.utsokning.forskarniva"
6186             },
6187             {
6188                 "Regelnamn": "commons.domain.regel.studieperiod.kan.laggas.till",
6189                 "Uid": "c3d4f6b5-4629-11ec-8ce5-829094194c50",
6190                 "Varde": "true"
6191             }
6192         ],
6193         "Uid": "c3d4f6b1-4629-11ec-8ce5-829094194c50"
6194     },
6195     "Sorteringsordning": 50,
6196     "StudieordningID": 1,
6197     "TillfalleInomUtbildningstyper": [
6198         152631,
6199         110915
6200     ],
6201     "UtbildningstyperInomUtbildningstyp": []
6202 },
6203 {
6204     "AvserTillfalle": false,
6205     "Benamning": {
6206         "sv": "Deltagande utan omfattning, grund- och avancerad niv\u00e5",
6207         "en": "Participation without scope, first and second cycle student"
6208     },
6209     "Beskrivning": {},

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6210     "Dolt": false,
6211     "Giltighetsperiod": {},
6212     "Grundtyp": "KURS",
6213     "ID": "152633",
6214     "Kod": "2007GADU",
6215     "LarosateID": -1,
6216     "Regelverk": {
6217         "Regelvarden": [
6218             {
6219                 "Regelnamn": "commons.domain.regel.resultat",
6220                 "Uid": "3a8de07d-462a-11ec-8ce5-829094194c50",
6221                 "Varde": "false"
6222             },
6223             {
6224                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6225                 "Uid": "3a8de079-462a-11ec-8ce5-829094194c50",
6226                 "Varde": "grupp.for.utsokning.grundavanceradniva"
6227             },
6228             {
6229                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
6230                 "Uid": "3a8de07c-462a-11ec-8ce5-829094194c50",
6231                 "Varde": "true"
6232             },
6233             {
6234                 "Regelnamn": "commons.domain.regel.individuell",
6235                 "Uid": "3a8de07b-462a-11ec-8ce5-829094194c50",
6236                 "Varde": "false"
6237             },
6238             {
6239                 "Regelnamn": "commons.domain.regel.versionshanteras",
6240                 "Uid": "3a8de07e-462a-11ec-8ce5-829094194c50",
6241                 "Varde": "true"
6242             },
6243             {
6244                 "Regelnamn": "commons.domain.regel.har.omfattning",
6245                 "Uid": "3a8de07a-462a-11ec-8ce5-829094194c50",
6246                 "Varde": "false"
6247             }
6248         ],
6249         "Uid": "3a8de078-462a-11ec-8ce5-829094194c50"
6250     },
6251     "Sorteringsordning": 50,
6252     "StudieordningID": 1,
6253     "TillfalleInomUtbildningstyper": [],
6254     "UtbildningstyperInomUtbildningstyp": []
6255 },
6256 {
6257     "AvserTillfalle": true,
6258     "Benamning": {
6259         "sv": "Individuellt tillf\u00e4lle f\u00f6r deltagande utan omfattning, grund- och avancerad ni
6260         "en": "Course instance for participation without scope, first and second cycle student"

```

```

6261 },
6262 "Beskrivning": {},
6263 "Dolt": false,
6264 "Giltighetsperiod": {},
6265 "Grundtyp": "KURS",
6266 "ID": "152634",
6267 "Kod": "2007GADUITF",
6268 "LarosateID": -1,
6269 "Regelverk": {
6270   "Regelvarden": [
6271     {
6272       "Regelnamn": "commons.domain.regel.studieperiod.kan.laggas.till",
6273       "Uid": "fac905e6-f2ea-11ec-b69c-de0a57354d79",
6274       "Varde": "true"
6275     },
6276     {
6277       "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6278       "Uid": "fac905e3-f2ea-11ec-b69c-de0a57354d79",
6279       "Varde": "grupp.for.utsokning.grundavanceradniva"
6280     },
6281     {
6282       "Regelnamn": "commons.domain.regel.individuell",
6283       "Uid": "fac905e4-f2ea-11ec-b69c-de0a57354d79",
6284       "Varde": "true"
6285     },
6286     {
6287       "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
6288       "Uid": "fac905e5-f2ea-11ec-b69c-de0a57354d79",
6289       "Varde": "true"
6290     }
6291   ],
6292   "Uid": "aa197af5-462a-11ec-8ce5-829094194c50"
6293 },
6294 "Sorteringsordning": 50,
6295 "StudieordningID": 1,
6296 "TillfalleInomUtbildningstyper": [
6297   152633
6298 ],
6299 "UtbildningstyperInomUtbildningstyp": []
6300 },
6301 {
6302   "AvserTillfalle": true,
6303   "Benamning": {
6304     "sv": "Tillf\u00e4lle f\u00f6r deltagande utan omfattning, grund- och avancerad niv\u00e5",
6305     "en": "Course instance for participation without scope, first and second cycle student"
6306   },
6307   "Beskrivning": {},
6308   "Dolt": false,
6309   "Giltighetsperiod": {},
6310   "Grundtyp": "KURS",
6311   "ID": "152635",

```

```

6312     "Kod": "2007GADUTF",
6313     "LarosateID": -1,
6314     "Regelverk": {
6315         "Regelvarden": [
6316             {
6317                 "Regelnamn": "commons.domain.regel.har.omfattning",
6318                 "Uid": "689f0e13-1e29-11ed-8ee2-089534b14047",
6319                 "Varde": "false"
6320             },
6321             {
6322                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
6323                 "Uid": "689f0e12-1e29-11ed-8ee2-089534b14047",
6324                 "Varde": "true"
6325             },
6326             {
6327                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6328                 "Uid": "689ebff1-1e29-11ed-8ee2-089534b14047",
6329                 "Varde": "grupp.for.utsokning.grundavanceradniva"
6330             }
6331         ],
6332         "Uid": "10ec91ea-462b-11ec-8ce5-829094194c50"
6333     },
6334     "Sorteringsordning": 50,
6335     "StudieordningID": 1,
6336     "TillfalleInomUtbildningstyper": [
6337         152633
6338     ],
6339     "UtbildningstyperInomUtbildningstyp": [],
6340 },
6341 {
6342     "AvserTillfalle": false,
6343     "Benamning": {
6344         "sv": "Kurspaket",
6345         "en": "Course package"
6346     },
6347     "Beskrivning": {},
6348     "Dolt": false,
6349     "Giltighetsperiod": {},
6350     "Grundtyp": "KURSPAKETERING",
6351     "ID": "154131",
6352     "Kod": "UPHPKP",
6353     "LarosateID": -1,
6354     "Regelverk": {
6355         "Regelvarden": [
6356             {
6357                 "Regelnamn": "commons.domain.regel.ar_kurspaket",
6358                 "Uid": "16bb6bdb-0509-11ee-b40a-f28ad46341da",
6359                 "Varde": "true"
6360             },
6361             {
6362                 "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdraagsutbildning",

```

```

6363         "UId": "16bb6bda-0509-11ee-b40a-f28ad46341da",
6364         "Varde": "true"
6365     },
6366     {
6367         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6368         "UId": "16bb6bd9-0509-11ee-b40a-f28ad46341da",
6369         "Varde": "grupp.for.utsokning.uppdagsutbildning"
6370     }
6371 ],
6372     "UId": "15aae9be-28fe-11ed-bbb6-2ba689e94455"
6373 },
6374 "Sorteringsordning": 5,
6375 "StudieordningID": 17,
6376 "TillfalleInomUtbildningstyper": [],
6377 "UtbildningstyperInomUtbildningstyp": [
6378     101993,
6379     101992
6380 ]
6381 },
6382 {
6383     "AvserTillfalle": true,
6384     "Benamning": {
6385         "sv": "Kurspaket tillf\u00e4lle",
6386         "en": "Course package instance"
6387     },
6388     "Beskrivning": {},
6389     "Dolt": false,
6390     "Giltighetsperiod": {},
6391     "Grundtyp": "KURSPAKETERING",
6392     "ID": "154132",
6393     "Kod": "UPHPKPTF",
6394     "LarosateID": -1,
6395     "Regelverk": {
6396         "Regelvarden": [
6397             {
6398                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6399                 "UId": "039baa3f-0506-11ee-b40a-f28ad46341da",
6400                 "Varde": "grupp.for.utsokning.uppdagsutbildning"
6401             },
6402             {
6403                 "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdagsutbildning",
6404                 "UId": "039baa40-0506-11ee-b40a-f28ad46341da",
6405                 "Varde": "true"
6406             },
6407             {
6408                 "Regelnamn": "commons.domain.regel.kan.utannonseras",
6409                 "UId": "039baa41-0506-11ee-b40a-f28ad46341da",
6410                 "Varde": "true"
6411             },
6412             {
6413                 "Regelnamn": "commons.domain.regel.atgard_vid_orimligt_omfattningsvarde",

```



```

6414         "UId": "039baa42-0506-11ee-b40a-f28ad46341da",
6415         "Varde": "varning"
6416     },
6417     {
6418         "Regelnamn": "commons.domain.regel.ar_kurspaket",
6419         "UId": "039baa43-0506-11ee-b40a-f28ad46341da",
6420         "Varde": "true"
6421     }
6422 ],
6423 "UId": "74ca90cd-28fe-11ed-bbb6-2ba689e94455"
6424 },
6425 "Sorteringsordning": 50,
6426 "StudieordningID": 17,
6427 "TillfalleInomUtbildningstyper": [
6428     154131
6429 ],
6430 "UtbildningstyperInomUtbildningstyp": [
6431     101993,
6432     101992,
6433     101994
6434 ]
6435 },
6436 {
6437     "AvserTillfalle": true,
6438     "Benamning": {
6439         "sv": "Tillf\u00e4lle f\u00f6r utbytes\u00e5tagande, utresande",
6440         "en": "Exchange load instance, outgoing student"
6441     },
6442     "Beskrivning": {
6443         "sv": "Tillagd f\u00f6r konvertering av uppgifter fr\u00e5n Handelsh\u00f6gskolan. "
6444     },
6445     "Dolt": false,
6446     "Giltighetsperiod": {},
6447     "Grundtyp": "KURS",
6448     "ID": "163852",
6449     "Kod": "1993UATTFR",
6450     "LarosateID": -1,
6451     "Regelverk": {
6452         "Regelvarden": [],
6453         "UId": "a75b2896-bbd6-11f0-b3d6-e5914bbf41cf"
6454     },
6455     "Sorteringsordning": 50,
6456     "StudieordningID": 2,
6457     "TillfalleInomUtbildningstyper": [
6458         103210
6459     ],
6460     "UtbildningstyperInomUtbildningstyp": []
6461 },
6462 {
6463     "AvserTillfalle": false,
6464     "Benamning": {

```

```

6465         "sv": "Deltagande utan omfattning",
6466         "en": "Participation without scope"
6467     },
6468     "Beskrivning": {},
6469     "Dolt": false,
6470     "Giltighetsperiod": {},
6471     "Grundtyp": "KURS",
6472     "ID": "164114",
6473     "Kod": "FUPDU",
6474     "LarosateID": -1,
6475     "Regelverk": {
6476         "Regelvarden": [
6477             {
6478                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6479                 "Uid": "5411c6d1-e4b5-11f0-b251-01189c9f465b",
6480                 "Varde": "grupp.for.utsokning.forutbildning"
6481             },
6482             {
6483                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
6484                 "Uid": "5411c6d4-e4b5-11f0-b251-01189c9f465b",
6485                 "Varde": "true"
6486             },
6487             {
6488                 "Regelnamn": "commons.domain.regel.resultat",
6489                 "Uid": "5411c6d5-e4b5-11f0-b251-01189c9f465b",
6490                 "Varde": "false"
6491             },
6492             {
6493                 "Regelnamn": "commons.domain.regel.individuell",
6494                 "Uid": "5411c6d3-e4b5-11f0-b251-01189c9f465b",
6495                 "Varde": "false"
6496             },
6497             {
6498                 "Regelnamn": "commons.domain.regel.har.omfattning",
6499                 "Uid": "5411c6d2-e4b5-11f0-b251-01189c9f465b",
6500                 "Varde": "false"
6501             },
6502             {
6503                 "Regelnamn": "commons.domain.regel.versionshanteras",
6504                 "Uid": "5411c6d0-e4b5-11f0-b251-01189c9f465b",
6505                 "Varde": "false"
6506             }
6507         ],
6508         "Uid": "08337750-e4a6-11f0-b251-01189c9f465b"
6509     },
6510     "Sorteringsordning": 50,
6511     "StudieordningID": 3,
6512     "TillfalleInomUtbildningstyper": [],
6513     "UtbildningstyperInomUtbildningstyp": []
6514 },
6515 {

```

```

6516     "AvserTillfalle": true,
6517     "Benamning": {
6518         "sv": "Tillf\u00e4lle f\u00f6r deltagande utan omfattning",
6519         "en": "Course instance for participation without scope"
6520     },
6521     "Beskrivning": {},
6522     "Dolt": false,
6523     "Giltighetsperiod": {},
6524     "Grundtyp": "KURS",
6525     "ID": "164115",
6526     "Kod": "FUPDUTF",
6527     "LarosateID": -1,
6528     "Regelverk": {
6529         "Regelvarden": [
6530             {
6531                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
6532                 "Uid": "1c513bd6-e4b3-11f0-b251-01189c9f465b",
6533                 "Varde": "true"
6534             },
6535             {
6536                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6537                 "Uid": "1c513bd8-e4b3-11f0-b251-01189c9f465b",
6538                 "Varde": "grupp.for.utsokning.forutbildning"
6539             },
6540             {
6541                 "Regelnamn": "commons.domain.regel.har.omfattning",
6542                 "Uid": "1c513bd7-e4b3-11f0-b251-01189c9f465b",
6543                 "Varde": "false"
6544             }
6545         ],
6546         "Uid": "1c513bd5-e4b3-11f0-b251-01189c9f465b"
6547     },
6548     "Sorteringsordning": 50,
6549     "StudieordningID": 3,
6550     "TillfalleInomUtbildningstyper": [
6551         164114
6552     ],
6553     "UtbildningstyperInomUtbildningstyp": []
6554 }
6555 ]
6556 }

```

20.24 aktivitetstillfallestyp_JSON

```

1308 <LadokSession data methods 126b>+=
    # added by GQMJr
    def aktivitetstillfallestyp_JSON(self):
        """
        Returns the activity types.
        """

```

```

r = self.session.get(
    url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/aktivitetstillfallestyp',
    headers=self.headers).json()
return r

```

Let's add a test. This should return a dictionary.

```

1309 <test functions 126a>+=
def test_aktivitetstillfallestyp_JSON():
    r = ladok.aktivitetstillfallestyp_JSON()
    assert type(r) == dict

```

This code is used in chunk 121.

The output looks like this:

```

1  {
2      "Aktivitetstillfallestyp": [
3          {
4              "Benamning": {
5                  "sv": "Digital omtentamen (LIS)",
6                  "en": "E-examination, resit (LIS)"
7              },
8              "Beskrivning": {},
9              "Dolt": true,
10             "Giltighetsperiod": {},
11             "ID": "151857",
12             "Kod": "GDOT",
13             "LarosateID": -1
14         },
15         {
16             "Benamning": {
17                 "sv": "Digital tentamen (LIS)",
18                 "en": "E-examination (LIS)"
19             },
20             "Beskrivning": {},
21             "Dolt": true,
22             "Giltighetsperiod": {},
23             "ID": "151856",
24             "Kod": "GDT",
25             "LarosateID": -1
26         },
27         {
28             "Benamning": {
29                 "sv": "Verksamhetsf\u00f6rlagd utbildning (LIS)",
30                 "en": "Placement (LIS)"
31             },
32             "Beskrivning": {},
33             "Dolt": false,
34             "Giltighetsperiod": {},
35             "ID": "164128",
36             "Kod": "GVFU",
37             "LarosateID": -1

```

```

38     },
39     {
40         "Benamning": {
41             "sv": "\u00d6vrigt aktivitetstillf\u00e4lle",
42             "en": "Unspecified activity"
43         },
44         "Beskrivning": {},
45         "Dolt": false,
46         "Giltighetsperiod": {},
47         "ID": "1",
48         "Kod": "\u00d6V",
49         "LarosateID": -1
50     },
51     {
52         "Benamning": {
53             "sv": "Examination i datorsal - omtentamen",
54             "en": "Re-exam, digital on-campus"
55         },
56         "Beskrivning": {},
57         "Dolt": false,
58         "Giltighetsperiod": {
59             "Startdatum": "2022-06-15"
60         },
61         "ID": "153882",
62         "Kod": "EXDAOMTENTA",
63         "LarosateID": 29
64     },
65     {
66         "Benamning": {
67             "sv": "Examination i datorsal - tentamen",
68             "en": "Exam, digital on-campus"
69         },
70         "Beskrivning": {},
71         "Dolt": false,
72         "Giltighetsperiod": {
73             "Startdatum": "2022-06-15"
74         },
75         "ID": "153881",
76         "Kod": "EXDATENTA",
77         "LarosateID": 29
78     },
79     {
80         "Benamning": {
81             "sv": "Examination i datorsal \u2013 kontrollskrivning",
82             "en": "Partial exam, digital on-campus"
83         },
84         "Beskrivning": {},
85         "Dolt": false,
86         "Giltighetsperiod": {
87             "Startdatum": "2022-06-15"
88         },

```

```
89     "ID": "153880",
90     "Kod": "EXDATKS",
91     "LarosateID": 29
92 },
93 {
94     "Benamning": {
95         "sv": "FX-komplettering",
96         "en": "FX-Supplementary Qualification"
97     },
98     "Beskrivning": {},
99     "Dolt": false,
100    "Giltighetsperiod": {
101        "Startdatum": "2020-10-05"
102    },
103    "ID": "150909",
104    "Kod": "FX",
105    "LarosateID": 29
106 },
107 {
108     "Benamning": {
109         "sv": "Hemtentamen",
110         "en": "Unsupervised examination"
111     },
112     "Beskrivning": {},
113     "Dolt": false,
114     "Giltighetsperiod": {
115         "Startdatum": "2022-06-15"
116     },
117     "ID": "153887",
118     "Kod": "HEMTENTA",
119     "LarosateID": 29
120 },
121 {
122     "Benamning": {
123         "sv": "Kontrollskrivning",
124         "en": "Partial Exam"
125     },
126     "Beskrivning": {},
127     "Dolt": true,
128     "Giltighetsperiod": {
129         "Slutdatum": "2022-06-14",
130         "Startdatum": "2018-06-20"
131     },
132     "ID": "135201",
133     "Kod": "KS",
134     "LarosateID": 29
135 },
136 {
137     "Benamning": {
138         "sv": "Muntlig examination",
139         "en": "Oral exam"
```

```

140     },
141     "Beskrivning": {},
142     "Dolt": false,
143     "Giltighetsperiod": {
144         "Startdatum": "2022-06-15"
145     },
146     "ID": "153886",
147     "Kod": "MUNTA",
148     "LarosateID": 29
149 },
150 {
151     "Benamning": {
152         "sv": "Omtentamen",
153         "en": "Re-examination"
154     },
155     "Beskrivning": {},
156     "Dolt": true,
157     "Giltighetsperiod": {
158         "Slutdatum": "2022-06-14",
159         "Startdatum": "2018-06-20"
160     },
161     "ID": "135200",
162     "Kod": "OMTENTA",
163     "LarosateID": 29
164 },
165 {
166     "Benamning": {
167         "sv": "Salsexamination \u2013 kontrollskrivning",
168         "en": "Partial exam, written on-campus"
169     },
170     "Beskrivning": {},
171     "Dolt": false,
172     "Giltighetsperiod": {
173         "Startdatum": "2022-06-15"
174     },
175     "ID": "153883",
176     "Kod": "SALEXKS",
177     "LarosateID": 29
178 },
179 {
180     "Benamning": {
181         "sv": "Salsexamination - omtentamen",
182         "en": "Re-exam, written on-campus"
183     },
184     "Beskrivning": {},
185     "Dolt": false,
186     "Giltighetsperiod": {
187         "Startdatum": "2022-06-15"
188     },
189     "ID": "153885",
190     "Kod": "SALEXOMTENT",

```

```

191     "LarosateID": 29
192 },
193 {
194     "Benamning": {
195         "sv": "Salsexamination \u2013 tentamen",
196         "en": "Exam, written on-campus"
197     },
198     "Beskrivning": {},
199     "Dolt": false,
200     "Giltighetsperiod": {
201         "Startdatum": "2022-06-15"
202     },
203     "ID": "153884",
204     "Kod": "SALEXTENTA",
205     "LarosateID": 29
206 },
207 {
208     "Benamning": {
209         "sv": "Tentamen",
210         "en": "Examination"
211     },
212     "Beskrivning": {},
213     "Dolt": true,
214     "Giltighetsperiod": {
215         "Slutdatum": "2022-06-14",
216         "Startdatum": "2018-06-20"
217     },
218     "ID": "135199",
219     "Kod": "TENTAMEN",
220     "LarosateID": 29
221 }
222 ]
223 }

```

20.25 catalog_service_index_JSON

```

1313a <LadokSession data methods 126b> +=
    # added by GQMJr
    def catalog_service_index_JSON(self):
        """
        Returns the catalog service index.
        """
        r = self.session.get(
            url=self.base_gui_proxy_url + '/kataloginformation/internal/service/index',
            headers=self.headers).json()
        return r

```

Let's add a test. This should return a dictionary.

```

1313b <test functions 126a> +=
    def test_catalog_service_index_JSON():

```



```
r = ladok.catalog_service_index_JSON()
assert type(r) == dict
```

This code is used in chunk 121.

The output looks like this:

```
1 {
2   "ServiceName": "Ladok3 intern REST-tj\u00e4nst f\u00f6r kataloginformation"
3 }
```

20.26 omradesbehorighet_JSON

1314a *<LadokSession data methods 126b>+≡*

```
# added by GQMJr
def omradesbehorighet_JSON(self):
    """
    Returns områdesbehörighet. See

    https://antagning.se/globalassets/omradesbehorigheter-hogskolan.pdf

    for more information.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/omradesbehorighet',
        headers=self.headers).json()
    return r
```

Let's add a test. This should return a dictionary.

1314b *<test functions 126a>+≡*

```
def test_omradesbehorighet_JSON():
    r = ladok.omradesbehorighet_JSON()
    assert type(r) == dict
```

This code is used in chunk 121.

The output looks like this:

```
1 {
2   "Omradesbehorighet": [
3     {
4       "Benamning": {
5         "sv": "Endast grundl\u00e4ggande beh\u00f6righet",
6         "en": "General entry requirements only"
7       },
8       "Beskrivning": {},
9       "Dolt": false,
10      "Emilvarde": "0",
11      "Giltighetsperiod": {
12        "Slutdatum": "2022-06-01"
13      },
14      "ID": "0",
15      "Kod": "0",
```

```

16     "LarosateID": -1
17 },
18 {
19     "Benamning": {
20         "sv": "A6 c/6 a",
21         "en": "A6 c/6 c"
22     },
23     "Beskrivning": {},
24     "Dolt": false,
25     "Emilvarde": "6 c",
26     "Giltighetsperiod": {
27         "Slutdatum": "2022-06-01"
28     },
29     "ID": "9",
30     "Kod": "6C",
31     "LarosateID": -1
32 },
33 {
34     "Benamning": {
35         "sv": "A11/11",
36         "en": "A11/11"
37     },
38     "Beskrivning": {},
39     "Dolt": false,
40     "Emilvarde": "11",
41     "Giltighetsperiod": {
42         "Slutdatum": "2022-06-01"
43     },
44     "ID": "14",
45     "Kod": "11",
46     "LarosateID": -1
47 },
48 {
49     "Benamning": {
50         "sv": "A14/15",
51         "en": "A14/15"
52     },
53     "Beskrivning": {},
54     "Dolt": false,
55     "Emilvarde": "15",
56     "Giltighetsperiod": {
57         "Slutdatum": "2022-06-01"
58     },
59     "ID": "18",
60     "Kod": "15",
61     "LarosateID": -1
62 },
63 {
64     "Benamning": {
65         "sv": "A1/1",
66         "en": "A1/1"

```

```
67     },
68     "Beskrivning": {},
69     "Dolt": false,
70     "Emilvarde": "1",
71     "Giltighetsperiod": {
72       "Slutdatum": "2022-06-01"
73     },
74     "ID": "1",
75     "Kod": "1",
76     "LarosateID": -1
77   },
78   {
79     "Benamning": {
80       "sv": "A8/8",
81       "en": "A8/8"
82     },
83     "Beskrivning": {},
84     "Dolt": false,
85     "Emilvarde": "8",
86     "Giltighetsperiod": {
87       "Slutdatum": "2022-06-01"
88     },
89     "ID": "11",
90     "Kod": "8",
91     "LarosateID": -1
92   },
93   {
94     "Benamning": {
95       "sv": "A13/13",
96       "en": "A13/13"
97     },
98     "Beskrivning": {},
99     "Dolt": false,
100    "Emilvarde": "13",
101    "Giltighetsperiod": {
102      "Slutdatum": "2022-06-01"
103    },
104    "ID": "16",
105    "Kod": "13",
106    "LarosateID": -1
107  },
108  {
109    "Benamning": {
110      "sv": "A14/16",
111      "en": "A14/16"
112    },
113    "Beskrivning": {},
114    "Dolt": false,
115    "Emilvarde": "16",
116    "Giltighetsperiod": {
117      "Slutdatum": "2022-06-01"
```

```
118     },
119     "ID": "19",
120     "Kod": "16",
121     "LarosateID": -1
122   },
123   {
124     "Benamning": {
125       "sv": "A2/2",
126       "en": "A2/2"
127     },
128     "Beskrivning": {},
129     "Dolt": false,
130     "Emilvarde": "2",
131     "Giltighetsperiod": {
132       "Slutdatum": "2022-06-01"
133     },
134     "ID": "2",
135     "Kod": "2",
136     "LarosateID": -1
137   },
138   {
139     "Benamning": {
140       "sv": "A3/3",
141       "en": "A3/3"
142     },
143     "Beskrivning": {},
144     "Dolt": false,
145     "Emilvarde": "3",
146     "Giltighetsperiod": {
147       "Slutdatum": "2022-06-01"
148     },
149     "ID": "3",
150     "Kod": "3",
151     "LarosateID": -1
152   },
153   {
154     "Benamning": {
155       "sv": "A4/4",
156       "en": "A4/4"
157     },
158     "Beskrivning": {},
159     "Dolt": false,
160     "Emilvarde": "4",
161     "Giltighetsperiod": {
162       "Slutdatum": "2022-06-01"
163     },
164     "ID": "4",
165     "Kod": "4",
166     "LarosateID": -1
167   },
168   {
```

```

169     "Benamning": {
170         "sv": "A5/5",
171         "en": "A5/5"
172     },
173     "Beskrivning": {},
174     "Dolt": false,
175     "Emilvarde": "5",
176     "Giltighetsperiod": {
177         "Slutdatum": "2022-06-01"
178     },
179     "ID": "5",
180     "Kod": "5",
181     "LarosateID": -1
182 },
183 {
184     "Benamning": {
185         "sv": "A6/6",
186         "en": "A6/6"
187     },
188     "Beskrivning": {},
189     "Dolt": false,
190     "Emilvarde": "6",
191     "Giltighetsperiod": {
192         "Slutdatum": "2022-06-01"
193     },
194     "ID": "6",
195     "Kod": "6",
196     "LarosateID": -1
197 },
198 {
199     "Benamning": {
200         "sv": "A6 a/6 a",
201         "en": "A6 a/6 a"
202     },
203     "Beskrivning": {},
204     "Dolt": false,
205     "Emilvarde": "6 a",
206     "Giltighetsperiod": {
207         "Slutdatum": "2022-06-01"
208     },
209     "ID": "7",
210     "Kod": "6A",
211     "LarosateID": -1
212 },
213 {
214     "Benamning": {
215         "sv": "A6 b/6 a",
216         "en": "A6 b/6 b"
217     },
218     "Beskrivning": {},
219     "Dolt": false,

```

```

220     "Emilvarde": "6 b",
221     "Giltighetsperiod": {
222         "Slutdatum": "2022-06-01"
223     },
224     "ID": "8",
225     "Kod": "6B",
226     "LarosateID": -1
227 },
228 {
229     "Benamning": {
230         "sv": "A7/7",
231         "en": "A7/7"
232     },
233     "Beskrivning": {},
234     "Dolt": false,
235     "Emilvarde": "7",
236     "Giltighetsperiod": {
237         "Slutdatum": "2022-06-01"
238     },
239     "ID": "10",
240     "Kod": "7",
241     "LarosateID": -1
242 },
243 {
244     "Benamning": {
245         "sv": "A9/9",
246         "en": "A9/9"
247     },
248     "Beskrivning": {},
249     "Dolt": false,
250     "Emilvarde": "9",
251     "Giltighetsperiod": {
252         "Slutdatum": "2022-06-01"
253     },
254     "ID": "12",
255     "Kod": "9",
256     "LarosateID": -1
257 },
258 {
259     "Benamning": {
260         "sv": "A10/10",
261         "en": "A10/10"
262     },
263     "Beskrivning": {},
264     "Dolt": false,
265     "Emilvarde": "10",
266     "Giltighetsperiod": {
267         "Slutdatum": "2022-06-01"
268     },
269     "ID": "13",
270     "Kod": "10",

```

```
271     "LarosateID": -1
272   },
273   {
274     "Benamning": {
275       "sv": "A12/12",
276       "en": "A12/12"
277     },
278     "Beskrivning": {},
279     "Dolt": false,
280     "Emilvarde": "12",
281     "Giltighetsperiod": {
282       "Slutdatum": "2022-06-01"
283     },
284     "ID": "15",
285     "Kod": "12",
286     "LarosateID": -1
287   },
288   {
289     "Benamning": {
290       "sv": "A11/14",
291       "en": "A11/14"
292     },
293     "Beskrivning": {},
294     "Dolt": false,
295     "Emilvarde": "14",
296     "Giltighetsperiod": {
297       "Slutdatum": "2022-06-01"
298     },
299     "ID": "17",
300     "Kod": "14",
301     "LarosateID": -1
302   },
303   {
304     "Benamning": {
305       "sv": "A15/17",
306       "en": "A15/17"
307     },
308     "Beskrivning": {},
309     "Dolt": false,
310     "Emilvarde": "17",
311     "Giltighetsperiod": {
312       "Slutdatum": "2022-06-01"
313     },
314     "ID": "20",
315     "Kod": "17",
316     "LarosateID": -1
317   }
318 ]
319 }
```

Chapter 21

Baltatzis' and Maguire's original LadokSession methods

Below are the original LadokSession methods by Baltatzis and Maguire. These are merely kept for backwards compatibility.

The one missing is the constructor, that has been replaced by the code above. Also, the code has been adapted to use `self.session` instead of `self.__session` etc.

21.1 get_results, save_result

```
1321 <LadokSession data methods 1321>≡
#####
#
# LadokSession
#
# get_results      returnerar en dictionary med momentnamn och resultat
# save_result      sparar resultat för en student som utkast
#
# The original LadokSession code is from Alexander Baltatzis <alba@kth.se> on
# 2020-07-20
#
# I (Gerald Q. Maguire Jr.) have extended on 2020-07-21 and later with the code
# as noted below.
#
# I (Daniel Bosk) adapted (on 2021-01-08) the methods to a refactored
# LadokSession class.

#####
#
# get_results
#
# person_nr        - personnummer, siffror i strängformat
#                   t.ex. 19461212-1212
# course_code      - kurskod t.ex. DD1321
#
# RETURNERAR en dictionary från ladok med momentnamn, resultat
```



```

#
# {'LABP': {'date': '2019-01-14', 'grade': 'P', 'status': 'attested'},
#  'LABD': {'date': '2019-03-23', 'grade': 'E', 'status': 'pending(1)'},
#  'TEN1': {'date': '2019-03-13', 'grade': 'F', 'status': 'pending(2)'}}
#
# status: kan ha följande värden vilket gissningsvis betyder:
#         attested    - attesterad
#         pending(1)  - utkast
#         pending(2)  - klarmarkerad
#
def get_results(self, person_nr_raw, course_code):
    person_nr_raw = str(person_nr_raw)
    person_nr = format_personnummer(person_nr_raw)
    if not person_nr: raise LadokValidationError('Invalid person nr ' + person_nr_raw)

    student_data = self.__get_student_data(person_nr)

    student_course = next(x
        for x in self.__get_student_courses(student_data['id'])
        if x['code'] == course_code)

    # get attested results
    r = self.session.get(
        url=self.base_gui_proxy_url +
            '/resultat/studentresultat/attesterade/student/' +
            student_data['id'],
        headers=self.headers).json()

    results_attested_current_course = None
    results = {} # return value

    for course in r['StudentresultatPerKurs']:
        if course['KursUID'] == student_course['education_id']:
            results_attested_current_course = course['Studentresultat']
            break

    if results_attested_current_course:
        for result in results_attested_current_course:
            try:
                d = { 'grade' : result['Betygsgradskod'],
                      'status': 'attested',
                      'date'  : result['Examinationsdatum'] }
                results[ result['Utbildningskod'] ] = d
            except:
                pass # tillgodoräknanden har inga betyg och då är result['Utbildningskod'] == None

    # get pending results
    r = self.session.get(
        url=self.base_gui_proxy_url + '/resultat/resultat/resultat/student/' +

```

```

        student_data['id'] + '/kurs/' + student_course['education_id'] +
        '?resultatstatus=UTKAST&resultatstatus=KLARMARKERAT',
        headers=self.headers).json()

for result in r['Resultat']:
    r = self.session.get(
        url=self.base_gui_proxy_url + '/resultat/utbildningsinstans/' +
        result['UtbildningsinstansUID'],
        headers=self.headers).json()
    d_grade = result['Betygsgradsobjekt']['Kod']
    d_status = "pending(" + str(result['ProcessStatus']) + ")"
    # utkast har inte datum tydligen ...
    d_date = "0" if 'Examinationsdatum' not in result \
        else result['Examinationsdatum']
    d = { 'grade' : d_grade ,
          'status': d_status,
          'date'  : d_date      }
    results[ r['Utbildningskod'] ] = d
return results

#####
#
# save_result
#
# person_nr          - personnummer, flera format accepteras enligt regex:
#                      (\d\d)?(\d\d)(\d\d\d\d)[+|-]?(\w\w\w\w)
# course_code         - kurskod t.ex. DD1321
# course_moment       - ladokmoment/kursbetyg t.ex. TEN1, LAB1, DD1321 (!)
#                      om labmomententet är samma som course_code så sätts kursbetyg!
# result_date         - betygdatum, flera format accepteras enligt regex
#                      (\d\d)?(\d\d)-?(\d\d)-?(\d\d)
# grade_code          - det betyg som ska sättas
# grade_scale         - betygsskala t.ex. AF eller PF. Möjliga betygsskalor
#                      listas i self.__grade_scales.
#
# RETURNERAR True om det gått bra, kastar (förhoppningsvis) undantag
#                      om det går dåligt.
def save_result(self, person_nr_raw, course_code, course_moment,
    result_date_raw, grade_raw, grade_scale):
    if grade_raw in ["AF", "PF"]:
        raise LadokValidationError('Invalid grade: ' + grade_raw + ' looks like a grade_scale')

    if (grade_raw == 'P' and grade_scale == "AF") or \
        (grade_raw in "ABCDE" and grade_scale == "PF"):
        raise LadokValidationError('Invalid grade: ' + grade_raw +
            ' does not match grade_scale ' + grade_scale)

    person_nr = format_personnummer(person_nr_raw)
    if not person_nr: raise LadokValidationError('Invalid person nr ' + person_nr_raw)

```

```

result_date = self.__validate_date(result_date_raw)
if not result_date:
    raise LadokValidationError('Invalid grade date: ' + result_date_raw + ' pnr: ' +
        person_nr_raw + ' moment: ' + course_moment)

student_data = self.__get_student_data(person_nr)
student_course = next(x
    for x in self.__get_student_courses(student_data['id'])
        if x['code'] == course_code)

# momentkod = kurskod => vi hanterar kursbetyg
if course_moment == student_course['code']:
    course_moment_id = student_course['instance_id']
else:
    for x in self.__get_student_course_moments(student_course['round_id'],
        student_data['id']):
        if x['code'] == course_moment:
            course_moment_id = x['course_moment_id']

student_course_results = self.__get_student_course_results(
    student_course['round_id'], student_data['id'])

grade_scale = self.__get_grade_scale_by_code(grade_scale)
grade = grade_scale.grades(code=grade_raw)[0]

headers = self.headers.copy()
headers['Content-Type'] = 'application/vnd.ladok-resultat+json'
headers['X-XSRF-TOKEN'] = self.__get_xsrf_token()
headers['Referer'] = self.base_gui_url

previous_result = None

for result in student_course_results['results']:
    if result['pending'] is not None:
        if result['pending']['moment_id'] == course_moment_id:
            previous_result = result['pending']
            break

# uppdatera befintligt utkast
if previous_result:
    put_data = {
        'Resultat': [{
            'ResultatUID': previous_result['id'],
            'Betygsgrad': grade.id,
            'Noteringar': [],
            'BetygsskalaID': grade_scale.id,
            'Examinationsdatum': result_date,
            'SenasteResultatandring': previous_result['last_modified']
        }]
    }

```

```

    r = self.session.put(
        url=self.base_gui_proxy_url + '/resultat/studieresultat/uppdatera',
        json=put_data,
        headers=headers)

# lägg in nytt betygskast
else:
    post_data = {
        'Resultat': [{
            'StudieresultatUID': student_course_results['id'],
            'UtbildningsinstansUID': course_moment_id,
            'Betygsgrad': grade.id,
            'Noteringar': [],
            'BetygsskalaID': grade_scale.id,
            'Examinationsdatum': result_date
        }]
    }
    r = self.session.post(
        url=self.base_gui_proxy_url + '/resultat/studieresultat/skapa',
        json=post_data,
        headers=headers)

if not 'Resultat' in r.json():
    raise LadokServerError("Couldn't register " +
        course_moment + "=" + grade_raw + " " + result_date_raw + ": " +
        r.json()["Meddelande"])

return True

```

This definition is continued in chunks [1325-29](#).
 Root chunk (not used in this document).

21.2 get_student_data, get_student_name

1325

⟨LadokSession data methods [1321](#)⟩+≡

```

#####
#
# get_student_data
#
# person_nr          - personnummer, flera format accepteras enligt regex:
#                      (\d\d)?(\d\d)(\d\d\d\d)[+|-]?(\w\w\w\w)
#
# RETURNERAR {'id': 'xxxx', 'first_name': 'x', 'last_name': 'y', 'person_nr': 'xxx', 'alive': True}

def get_student_data(self, person_nr_raw):
    person_nr = format_personnummer(person_nr_raw)

    if not person_nr: raise LadokValidationError('Invalid person nr ' + person_nr_raw)

```

```

    student_data = self.__get_student_data(person_nr)
    return student_data

#####
#
# get_student_name
#
# person_nr          - personnummer, flera format accepteras enligt regex:
#                      (\d\d)?(\d\d)(\d\d\d\d)[+\-]?(\w\w\w\w)
#
# RETURNERAR en dictionary med för- och efternamn
#
# {"first_name" : 'Anna', "last_name" : 'Andersson'}
#
def get_student_name(self, person_nr_raw):
    person_nr = format_personnummer(person_nr_raw)

    if not person_nr: raise LadokValidationError('Invalid person nr ' + person_nr_raw)

    student_data = self.__get_student_data(person_nr)
    return {
        "first_name": student_data["first_name"],
        "last_name" : student_data["last_name"]
    }

```

21.3 all_grading_scale

This is just to maintain the old method name.

1326a

```

<LadokSession data methods 1321>+≡
# added by GQMJr
#####
#
# all_grading_scale
#
#
# RETURNERAR en dictionary of the grading scales
def all_grading_scale(self):
    return self.get_grade_scales()

```

21.4 change_locale

This probably changes the default locale in the LADOK web interface. And that might affect the default languages in responses. Needs testing though.

1326b

```

<LadokSession data methods 1321>+≡
# added by GQMJr
#####
#
# change_locale

```

```
#
# lang                - language code 'en' or 'sv', defaults to 'sv'
#
# RETURNERAR reponse to the request
def change_locale(self, lang = 'sv'):
    r = self.session.get(
        url=self.base_gui_url+'/services/i18n/changeLocale?lang='+lang,
        headers=self.headers).json()
    return r
```

21.5 period_info_JSON

This no longer works. We should investigate if there is another API call to get this information.

1327a *<LadokSession data methods 1321>+≡*

```
# added by GQMjr
#####
#
# period_info_JSON
#
# RETURNERAR JSON of /resultat/grunddata/period
def period_info_JSON(self):
    r = self.session.get(
        url=self.base_gui_proxy_url + '/resultat/internal/grunddata/period',
        # doesn't work, but also not after adding 'internal/' between 'resultat/'
        # and 'grunddata' /CO
        headers=self.headers).json()
    return r
```

21.6 organisation_by_uid_JSON

1327b *<LadokSession data methods 1321>+≡*

```
# added by GQMjr
#####
#
# organisation_by_uid_JSON
#
# organisationUid      -- organization's UID
#
# RETURNERAR JSON of selected organization
def organisation_by_uid_JSON(self, organisationUid):
    r = self.session.get(
        url=self.base_gui_proxy_url +
            '/kataloginformation/organisation/'+organisationUid,
        headers=self.headers).json()
    return r

# returns:
```

```
# { 'Benamning': {'en': 'EECS/Computer Science', 'sv': 'EECS/Datavetenskap'},
# 'Giltighetsperiod': {'Startdatum': '2019-01-01', 'link': []},
# 'Organisationsenhetstyp': 1,
# 'Organisationskod': 'JH',
# 'Uid': '2474f616-dc41-11e8-8cc1-eaeeb71b497f',
# 'link': [ { 'mediaType': 'application/vnd.ladok+xml,application/vnd.ladok-kataloginformation+xml',
#             'method': 'GET',
#             'rel': 'self',
#             'uri': 'https://api.ladok.se:443/kataloginformation/organisation/2474f616-dc41-11e8-
```

21.7 examen_student_uid_JSON

This doesn't work anymore.

1328a

⟨LadokSession data methods 1321⟩+≡

```
# added by GQMJr
def examen_student_uid_JSON(self, studentUID):
    """
    Returns the student's degree.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url + 'examen/internal/student/'+studentUID',
        headers=self.headers).json()
    return r
```

21.8 student_participation_JSON

This doesn't seem to work anymore.

1328b

⟨LadokSession data methods 1321⟩+≡

```
# added by GQMJr
def student_participation_JSON (self, studentUID):
    """
    Returns the student's participation in courses.
    """
    headers = self.headers.copy()
    headers['Content-Type'] = 'application/vnd.ladok-studiedeltagande'
    headers['Accept'] += ', application/vnd.ladok-studiedeltagande'
    r = self.session.get(
        url=self.base_gui_proxy_url +
            '/studiedeltagande/internal/tillfallesdeltagande' +
            '/kurstillfallesdeltagande/' + studentUID,
        headers=self.headers)
    return r.json()
```

21.9 hamtaStudieResultatForStudent_JSON

This doesn't seem to work.

1328c

⟨LadokSession data methods 1321⟩+≡

```
# added by GQMJr
def hamtaStudieResultatForStudent_JSON (self, studentUID):
    """
    Returns the study results for a student.
    """
    r = self.session.get(url = self.base_gui_proxy_url +
        '/resultat/internal/studieresultat/resultat/student/'+studentUID,
        headers = self.headers).json()
    return r
```

Let's add a test. This function should return a dictionary.

```
1329a <test functions 1329a>≡
def test_hamtaStudieResultatForStudent_JSON():
    r = ladok.hamtaStudieResultatForStudent_JSON(student_uid)
    assert type(r) == dict
```

Root chunk (not used in this document).

The output looks like this:

```
1 {
2   "Resultat": []
3 }
```

21.10 Helper methods

```
1329b <LadokSession data methods 1321>+≡
#####
##
## private methods
##

def __get_xsrftoken(self):
    return self.xsrftoken

def get_xsrftoken(self):
    return self.xsrftoken

# returns None or a LADOK-formatted date
def __validate_date(self, date_raw):
    datregex = re.compile(r"(\d\d)?(\d\d)-?(\d\d)-?(\d\d)")
    dat = datregex.match(date_raw)
    if dat:
        if dat.group(1) == None: # add 20, ladok3 won't survive till 2100
            return "20" + dat.group(2) + "-" + dat.group(3) + "-" + dat.group(4)
        else:
            return dat.group(1) + dat.group(2) + \
                "-" + dat.group(3) + "-" + dat.group(4)
    else:
        return None
```



```

def __get_grade_scale_by_id(self, grade_scale_id):
    return next(grade_scale
        for grade_scale in self.get_grade_scales()
            if grade_scale.id == grade_scale_id)

def __get_grade_scale_by_code(self, grade_scale_code):
    return next(grade_scale
        for grade_scale in self.get_grade_scales()
            if grade_scale.code == grade_scale_code)

def __get_grade_by_id(self, grade_id):
    for grade_scale in self.get_grade_scales():
        for grade in grade_scale.grades():
            if grade.id == grade_id:
                return grade

    return None

def __get_student_data(self, person_nr):
    r = self.session.get(
        url=self.base_gui_proxy_url +
            '/studentinformation/student/filtrera?limit=2&orderby=EFTERNAMN_ASC&orderby=FORNAMN_ASC&orderby'
            + person_nr + '&skipCount=false&sprakkod=sv',
        headers=self.headers).json()['Resultat']

    if len(r) != 1: return None

    r = r[0]
    # from schemas/schemas.ladok.se-studentinformation.xsd
    # <xs:complexType name="Student">
    #   <xs:complexContent>
    #     <xs:extension base="base:BaseEntitet">
    #       <xs:sequence>
    #         <xs:element name="Avliden" type="xs:boolean"/>
    #         <xs:element minOccurs="0" name="Efternamn" type="xs:string"/>
    #         <xs:element minOccurs="0" name="ExterntUID" type="xs:string"/>
    #         <xs:element name="FelVidEtableringExternt" type="xs:boolean"/>
    #         <xs:element minOccurs="0" name="Fodelsedata" type="xs:string"/>
    #         <xs:element minOccurs="0" name="Fornamn" type="xs:string"/>
    #         <xs:element minOccurs="0" name="KonID" type="xs:int"/>
    #         <xs:element minOccurs="0" name="Personnummer" type="xs:string"/>
    #         <xs:element minOccurs="0" name="Skyddsstatus" type="xs:string"/>
    #         <xs:element minOccurs="0" ref="si:UnikaIdentifierare"/>
    #       </xs:sequence>
    #     </xs:extension>
    #   </xs:complexContent>
    # </xs:complexType>

```

```

return {
    'id': r['Uid'], # Ladok-ID
    'first_name': r['Fornamn'],
    'last_name': r['Efternamn'],
    'person_nr': r['Personnummer'], # tolv siffror, utan bindestreck eller plustecken
    'alive': not r['Avliden']
}

# detta är egentligen kurstillfällen, inte kurser (ID-numret är alltså ett ID-nummer för ett kurstillfälle)
def __get_student_courses(self, student_id):
    r = self.session.get(
        url=self.base_gui_proxy_url +
            '/studiedeltagande/tillfallesdeltagande/kurstillfallesdeltagande/student/'
            + student_id,
        headers=self.headers).json()

    results = []

    for course in r['Tillfallesdeltaganden']:
        if not course['Nuvarande'] or \
            'Utbildningskod' not in course['Utbildningsinformation']:
            continue

        results.append({
            'id': course['Uid'],
            'round_id': course['Utbildningsinformation']['UtbildningstillfalleUID'], # ett Ladok-ID för kurstillfälle
            'education_id': course['Utbildningsinformation']['UtbildningUID'], # ett Ladok-ID för något annat
            'instance_id': course['Utbildningsinformation']['UtbildningsinstansUID'], # ett Ladok-ID för att
            'code': course['Utbildningsinformation']['Utbildningskod'], # kurskod KOPPS
            'name': course['Utbildningsinformation']['Benamning']['sv']
        })

    return results

def __get_student_course_moments(self, course_round_id, student_id):
    r = self.session.get(
        url=self.base_gui_proxy_url +
            '/resultat/kurstillfalle/' + str(course_round_id) +
            '/student/' + str(student_id) + '/moment',
        headers=self.headers).json()

    return [{
        'course_moment_id': moment['UtbildningsinstansUID'],
        'code': moment['Utbildningskod'],
        'education_id': moment['UtbildningUID'],
        'name': moment['Benamning']['sv']
    } for moment in r['IngaendeMoment']]

```

```

def __get_student_course_results(self, course_round_id, student_id):
    r = self.session.get(
        url=self.base_gui_proxy_url +
            '/resultat/studieresultat/student/' + student_id +
            '/utbildningstillfalle/' + course_round_id,
        headers=self.headers).json()

    return {
        'id': r['Uid'],
        'results': [{
            'education_id': result['UtbildningUID'],
            'pending': {
                'id': result['Arbetsunderlag']['Uid'],
                'moment_id': result['Arbetsunderlag']['UtbildningsinstansUID'],
                'grade': self.__get_grade_by_id(result['Arbetsunderlag']['Betygsgrad']),
                'date': result['Arbetsunderlag']['Examinationsdatum'],
                'grade_scale': self.__get_grade_scale_by_id(result['Arbetsunderlag']['BetygsskalaID']),
                # behövs vid uppdatering av betygsutkast
                'last_modified': result['Arbetsunderlag']['SenasteResultatandring']
            } if 'Arbetsunderlag' in result else None,
            'attested': {
                'id': result['SenastAttesteradeResultat']['Uid'],
                'moment_id': result['SenastAttesteradeResultat']['UtbildningsinstansUID'],
                'grade': self.__get_grade_by_id(result['SenastAttesteradeResultat']['Betygsgrad']),
                'date': result['SenastAttesteradeResultat']['Examinationsdatum'],
                'grade_scale': self.__get_grade_scale_by_id(result['SenastAttesteradeResultat']['BetygsskalaID'])
            } if 'SenastAttesteradeResultat' in result else None
        } for result in r['ResultatPaUtbildningar']]
    }

```