

Natural Language Processing

Prerequisites

March 22nd, 2023

1.1 Exercises (30P)

The first exercise can be found in ILIAS as `ex01.zip`. It contains this file, a `requirements.txt` file, the actual assignment `ex01_assignment.ipynb` and some data and resource files.

1.2 Organization and Setup (0P)

For the practical assignments in this course, we will use *Python 3.9* and the exercise templates will be provided as *Jupyter Notebooks*. You will directly write your solutions and answers within this notebook.

To complete the assignments, you have to set up the build environment. We recommend using *Anaconda*, the world's most popular Python Data Science Platform. It is based on Python 3.9 and already includes Jupyter Notebook.

The remaining setup is relatively straightforward:

- Install *Anaconda* and follow the instructions for your operating system.
If you want to install Jupyter Notebook without Anaconda, use

```
pip install jupyter notebook
```
- Create a new folder where you will store your future assignments
(e.g. `~/studies/nlp/exercises`)
- Download the archive which contains the first assignment, extract it and put all files into a subfolder within this new assignment folder
(e.g. `~/studies/nlp/exercises/ex01/ex01_assignment.ipynb`)
- Then start a jupyter notebook from this folder. To do this, open a terminal in the cloned folder, and execute the following command

```
jupyter notebook
```
- A browser should open up. If it doesn't, open your webbrowser, enter `localhost:8888` in the URL bar.
- There you can select the notebook file `ex01_assignment.ipynb` and the notebook will open.
- The remaining introduction and the first exercises can be found in the first notebook!

1.3 Familiarize yourself with Jupyter Notebook (and Python)

Please familiarize yourself with Jupyter notebook, if you're not already:

<https://jupyter.readthedocs.org/en/latest/>

There are also plenty of tutorials online, such as [this one](#).

1.4 Submission

Note: we will not have any submissions in the first week as I first need to find out a good way how to allow submissions via ILIAS.