Natural Language Processing - Lab Session Notes

General Info

- Mondays 15:15 – 16:45
- **A/B** weeks: to ensure a somewhat even distribution of participants between the A/B slots, **please try to pick A weeks if your enrolement number (Matrikelnummer) is even-numbered, or B weeks if it is odd-numbered!**
- **Implementation / exploration of linguistic phenomena** from the lecture to gain intuition and insight into applications of theory
- We will use **Python** (+ several packages)

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Homework

- Some sessions *might* offer homework exercises (non-mandatory, but recommended)
- If so, the solutions to those exercises will be discussed the following A/B session

Material

- Mostly **Jupyter-notebooks**, possibly some small datasets.
- Everything will be uploaded on the temir course website.

Prerequisites

- Python
- Jupyter
- Python modules: *NLTK* (and possibly more, e.g. *spacy*)
- possibly conda or venv (recommended for convenient environment management)

Links

- conda - Getting Started
- venv (as a conda alternative)
- jupyter notebook
- nltk - Install

Installation

General conda installation example (including Jupyter and nltk):

```
conda create -n nlplecture python=3.10 jupyter nltk nbconvert
```

Activate conda environment and run Jupyter:

```
conda activate nlplecture
cd /your/favourite/directory
jupyter notebook .
```

A small installation guide for conda on Windows is also available (`Conda_Windows_Installation.pdf`).

If you still have technical problems, there will be a troubleshooting slot during the first lab.

Python Introduction

We will provide a notebook containing *__a small introduction to Python for self-study.__*

Please take a look at it if you are unfamiliar with Python!

See you in the lab!