

# Introduction

(SNLP tutorial)

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# Overview

- Hello
- Topics (15 minutes)
- Requirements
- Materials
- Assignments
- Homework (30 minutes)

# Hello

Who am I?

# Hello

Who am I?

Who are you?



# Topics

Task: Pick one not yet taken + why do you find it interesting.

- Language properties, Zipf's Law, basic statistical formalism
- Entropy, basic information theory (Shannon's game, entropy-based quantities, code lengths)
- Language modelling, back-off models (interpolation, discounting)
- Text classification, basic algorithms (kNN, decision trees, SVM, ...)
- Word sense disambiguation, basic algorithms (dictionary-, translation-, collocation-based)
- Information retrieval, latent semantic analysis, singular value decomposition
- Machine translation, word alignment, beamsearch
- POS tagging, named entity recognition
  - ▶ sequence labeling (hidden markov chains / models, conditional random fields)

# Requirements

## Tutorial Requirements (exam admission)

- 70% of mandatory points (~10 assignments, 10pts each)
- Tutorial points only for exam admission (no final grade influence)

## Tutorial Bonus Points

- ~2pts for extra exercises in the assignments
- 1pt for participating and *talking* in an tutorial
- Presenting a solution to an exercise (~5 points)
  - ▶ Presentable exercises are marked in the assignment sheet
  - ▶ Let individual tutors known if you wish to present (first come - first serve)
  - ▶ Every group can present *at most* once, about 10 to 15 minutes

## Final Project

- 25% of the final grade
- Details TBD

# What's available

- Lectures by prof. Klakow (recorded)
- Tutorials
- Corrected homework
- Consultations
  - ▶ Only in specific cases
  - ▶ By default **no** email and **no** chat
  - ▶ Better ask during the lecture / tutorials
- Public forum (please use Piazza)
  - ▶ Ask questions
  - ▶ Other students will also benefit from the answers
  - ▶ You can answer someone else's issue

# Assignments

- Mandatory groups of 2
- Usually 3 exercises per one assignment
  - ▶ Can't be changed later (very special exceptions)
- Jupyter notebook templates
  - ▶ Assignment + solution in the same notebook
  - ▶ Can use Google Collab or local runtime
- Only one submission per group
  - ▶ Submit through Teams



# Dates / Times

- Lecture: Fridays 8:30-10:00
- Tutorials:
  - ▶ Awantee: TODO
  - ▶ Julius: TODO
  - ▶ Vilém: TODO
- Assignments
  - ▶ Release (usually) Friday 23:59
  - ▶ Deadline (next) Friday 23:59 (also in Teams)
- Exam: (TBD) 30. Jul.

# Tutorial Content

- Review of the topic (per demand)
- Presentation of the past assignment
- Troubleshooting current assignment

# Current Homework

TBD

# Resources

- ① UdS SNLP Class: <https://teaching.lsv.uni-saarland.de/snlp/>
- ② Tutorial repository for these slides: <https://github.com/zouharvi/uds-snlp-tutorial>
- ③ Piazza: <https://piazza.com/uni-saarland.de/spring2021/snlp>