# Introduction (SNLP tutorial)

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#### Overview

- Hello
- Topics (15 minutes)
- Requirements (5 minutes)
- Materials
- Assignments
- Homework (10 minutes)

#### 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)
- Presenting a solution to an excercise at least once
- Tutorial points only for exam admission (no final grade influence)

#### **Tutorial Bonus Points**

- ~2pts for extra excercises in the assignments
- 1pt for participating and talking in an tutorial

#### Final Project

- 25% of the final grade
- Details TBD

#### What's available

- Lectures by prof. Klakow
- Live tutorials
- Tutorial handouts
- Consultations
- Only in specific cases
- **no** email and **no** chat by default
- Public forum (please use Piazza)
- Other students will also benefit from the answers
- You can answer someone else's issue
- Corrected homework

### Assignments

- Mandatory groups of 2
- Usually 3 excerises 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

• Exam: (TBD) 30. Jul.

#### Current Homework

TBD

#### Resources

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