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)

- 60% of mandatory points (~10 assignments)
- Presenting a solution to an excercise at least once

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 {live after tutorial, no email, no chat}
- Public forum (TBD)
- Corrected homework

Assignments

- Google Collab templates
- TODO describe asssignment format

Dates

TBD

Homework

TBD

Resources

- UdS SNLP Class: https://teaching.lsv.uni-saarland.de/snlp/
- Tutorial repository: https://github.com/zouharvi/uds-snlp-tutorial