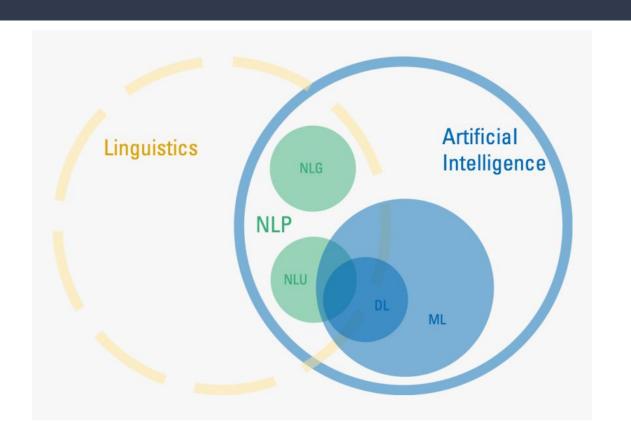
Week 11: Natural Language Processing

- 1. Resources
- 2. Natural Language Processing
- 3. NLTK
- 4. SpaCy
- 5. Outlook

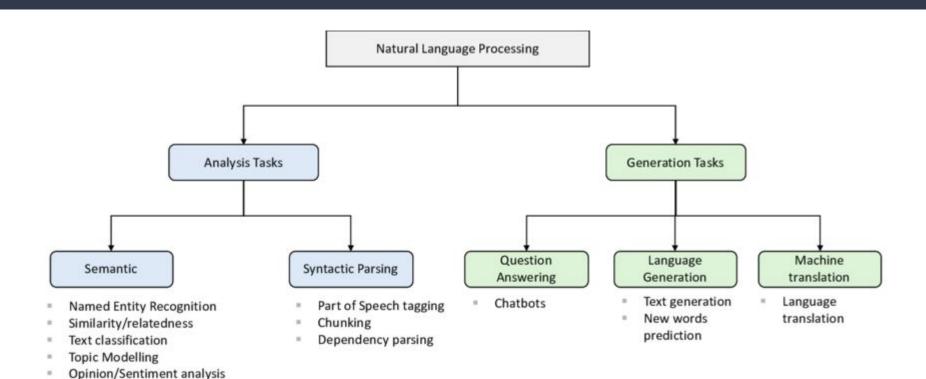
Resources

- NLTK API Documentation: https://www.nltk.org/api/nltk.html
- SpaCy API Documentation: https://spacy.io/api
- NLTK Book: https://www.nltk.org/book/
- SpaCy Usage: https://spacy.io/usage
- Python for Text Analysis: https://github.com/cltl/python-for-text-analysis

Natural Language Processing



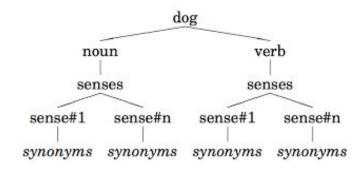
Natural Language Processing



NLTK

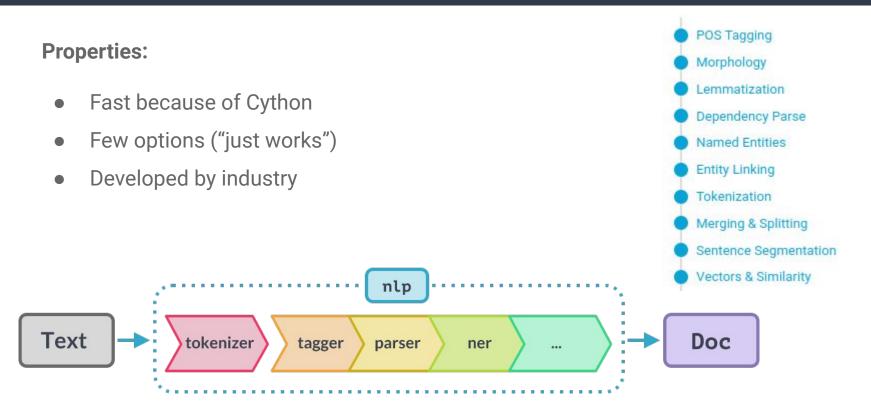
Properties:

- Old but time-tested
- Many model choices
- Developed by academia





SpaCy



Outlook

Application Lectures:

- Week 11: Natural Language Processing
- Week 12: Experiment Design
- Week 13: Webscraping

Final Project Ideas:

- Time & Performance Comparison of SpaCy & NLTK
- Authorship Attribution Service
- Re-implement Paper on NLP

Regular Assignment: 2021-homework11 (link in StudIP announcement)

Bonus Assignment: 2021-homework10-bonus (still ongoing until June 30th)

Final Project Registration Deadline: July 15th (mail)