

MATH5471/COMP5222 - Statistical Learning Models for Text and Graph Data

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1.1 Introduction to NLP

Reference Material

CS 224N (Chris Manning)

ICML tutorial on Natural Language Understanding... (Percy Liang)

Here are some common tasks in NLP:

Morphology : basic unit of words, e.g.

Syntax : what is grammatical?

Semantics : What does it mean?

Pragmatics

Example 1.1

$$2 + 3 \iff 3 + 2.$$

Different syntax, same semantics

Example 1.2

$$3/2 \text{ (Python 2.7)} \iff 3/2 \text{ (Python 3)}.$$

Same syntax different semantics

Example 1.3 (Parts of Speech)

TODO::