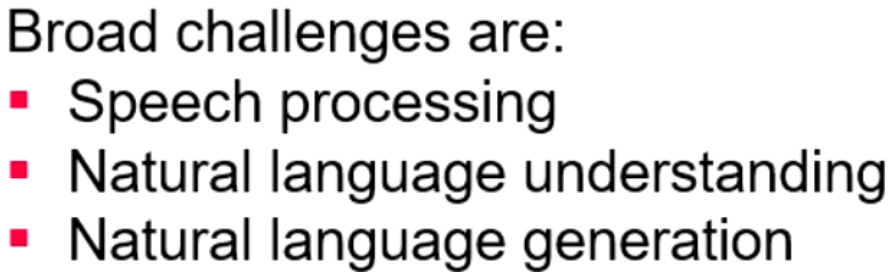
Overview

- how can computers understand natural (human) language
- intersection between
  - linguistics
  - computer science
  - electrical engineering (speech synthesis)



- NLP is language depending
  - most progess made for English

NLP in [[Information Retrieval]]

- preprocessing before creating dictionary vector
  - remove unwanted characters
    - html tags
    - punctuation
  - split up
    - e.g. on whitespace
  - detect common phrases
  - remove common/stop words
    - e.g. a, an, and, the, it, ...
  - stem tokens to word roots
    - e.g. computational ==> compute
- challenges
  - semantic information
    - synonyms
    - one word wtih two different meanings
      - e.g. jaguar ==> animal, car
  - structural syntatic information

[[Information Retrieval]]