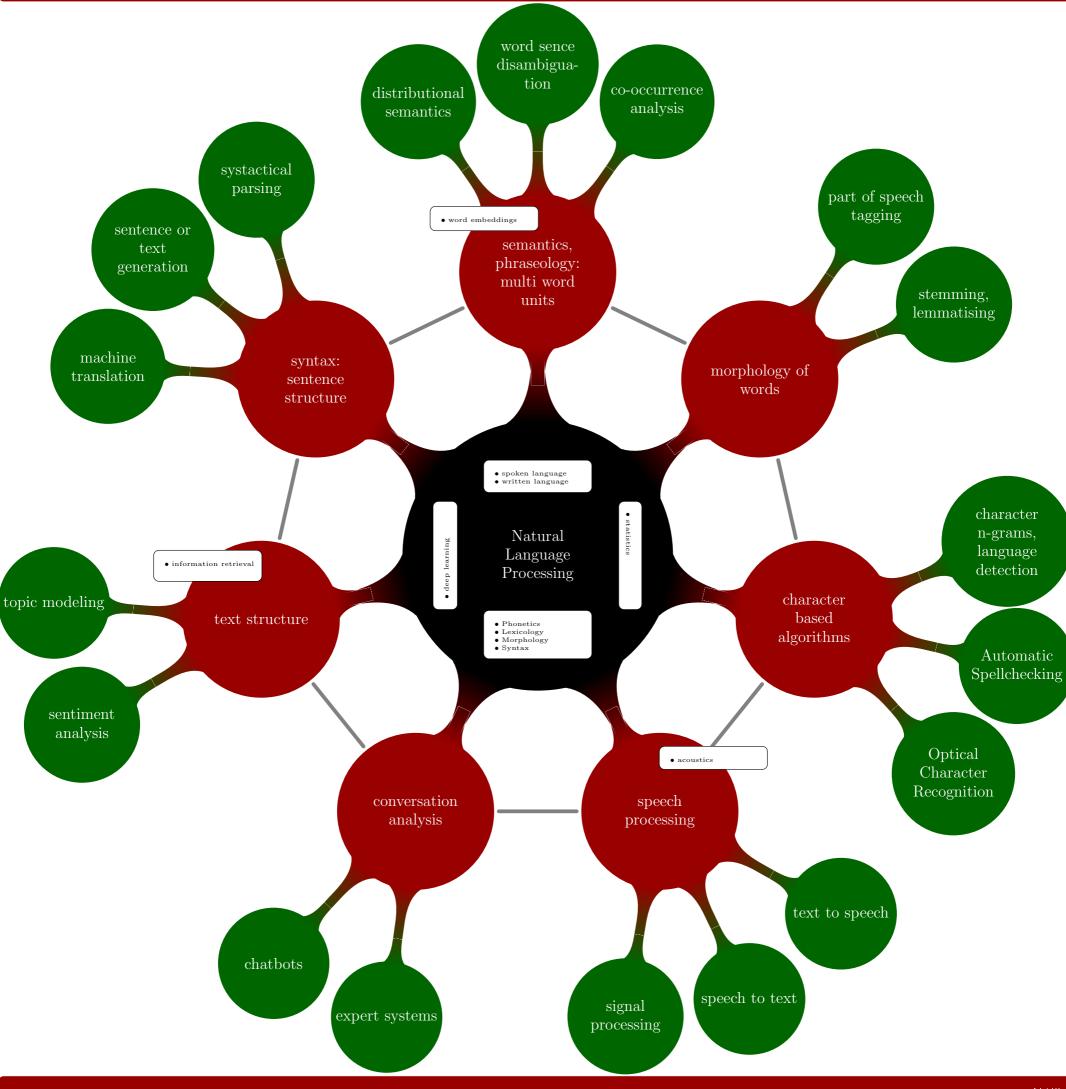# Related and Dependent Subfields of Natural Language Processing

- Natural Language Processing
  - spoken language
  - written language
  - deep learning
  - statistics
  - Phonetics
  - Lexicology
  - Morphology
  - Syntax

- **semantics, phraseology: multi word units**
  - distributional semantics
  - word sence disambiguation
  - co-occurrence analysis
  - word embeddings

- **syntax: sentence structure**
  - systactical parsing
  - sentence or text generation
  - machine translation

- **morphology of words**
  - part of speech tagging
  - stemming, lemmatising

- **text structure**
  - information retrieval
  - topic modeling
  - sentiment analysis

- **character based algorithms**
  - character n-grams, language detection
  - Automatic Spellchecking
  - Optical Character Recognition

- **conversation analysis**
  - chatbots
  - expert systems

- **speech processing**
  - acoustics
  - text to speech
  - speech to text
  - signal processing