

# Examples of Challenges

- Word-level ambiguity: E.g.,
  - “design” can be a noun or a verb (Ambiguous POS)
  - “root” has multiple meanings (Ambiguous sense)
- Syntactic ambiguity: E.g.,
  - “natural language processing” (Modification)
  - “A man saw a boy with a telescope.” (PP Attachment)
- Anaphora resolution: “John persuaded Bill to buy a TV for himself.” (himself = John or Bill?)
- Presupposition: “He has quit smoking.” implies that he smoked before.