Constituency Parsing



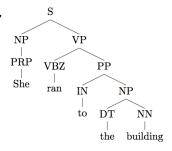
Syntax

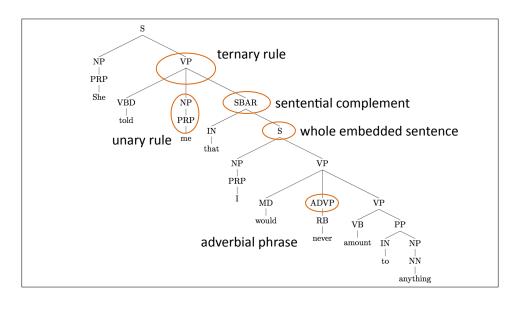
- Study of word order and how words form sentences
- Why do we care about syntax?
 - ► Multiple interpretations of words (noun or verb? Fed raises... example)
 - ► Recognize verb-argument structures (who is doing what to whom?)
 - Higher level of abstraction beyond words: some languages are SVO, some are VSO, some are SOV, parsing can canonicalize

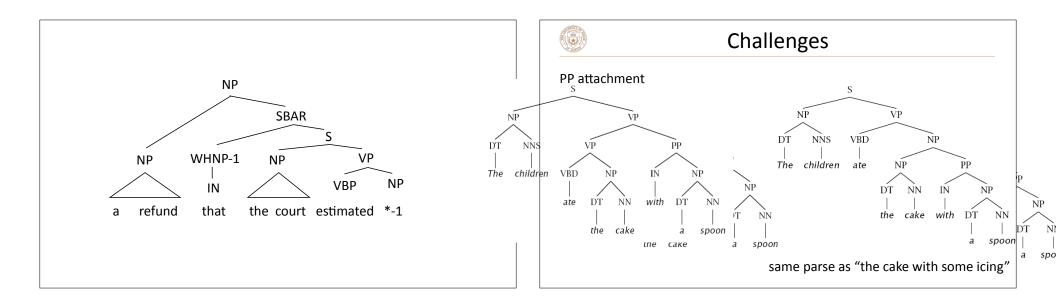


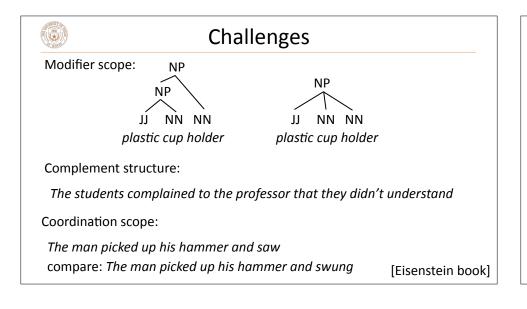
Constituency Parsing

- Tree-structured syntactic analyses of sentences
- Constituents: (S)entence, (N)oun (P)hrases, (V)erb (P)hrases, (P)repositional (P)hrases, and more
- Bottom layer is POS tags
- Examples will be in English. Constituency makes sense for a lot of languages but not all











Constituency

- How do we know what the constituents are?
- Constituency tests:
 - Substitution by proform (e.g., pronoun, did so)
 - ► Clefting (It was with a spoon that...)
 - Answer ellipsis (What did they eat? the cake)
 (How? with a spoon)
- Sometimes constituency is not clear, e.g., coordination: *she went to and bought food at the store*

