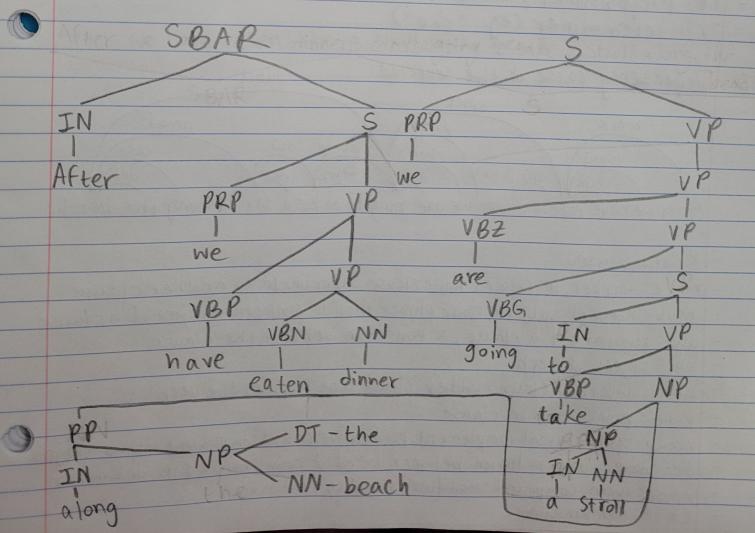


1. A commonly taught multi-clause sentence is:

"After we have eaten dinner, we are going to take a stroll along the beach."

This sentence will be parsed with a PSG (constituency) parse, a dependency parse, and an SRL parse.

2. PSG tree of the sentence:



lags used: - SBAR: clause w/ subordinating conjunction (eg. "after") - S: simple declerative clause - IN: Preposition (eg. a, to, in) or subordinating conjunction - PRP: persona) pronoun (eg. "we") - VP: verb phrase - VBP: verb, non-3rd person singular present (eg. "have") - VBN: verb, past participle (og. "eater") - VBZ: verb, 3rd person singular present (eg. "are") - NN: noun, singular - VBG: verb, gerund or present participle (eg. "going") - NP: noun phrase - PP: prepositional phrase DT: Leterminer (eg. "the") 3. Dependency parse of the sentence: punct advcl mark punct nsubj nsubj) xcomp 063 aux ido det After we have eaten dinner, we are going to take a stroll along the beach. Relations used: mark: marker, introduces finite clause subordinate to another clause nsubj: nominal subject, noun phrase that is syntactic subject of a clause aux: auxiliary of a clause, a non-main verb of the clause obj: object of verb advol: adverbial clause modifier, clause that modifies the verb punct: punctuation in clause x comp: open clausal complement, predicative/clausal complement without subject det: determiner, relation between head of noun phrase &its determiner nmod: noun compound modifier, modifies head noun

case: coordination

4. SRL parse of the sentence: - verb: have - predicate: have eaten dinner - arguments: none - modifiers: none - verb: eaten -predicate: have eaten dinner - arguments: we (ARGO), Linner (ARGI) -modifiers: none Verb: are - predicate: We are going - arguments: none - modifiers in one verb: going - predicate: going to take a strollalongthe beach -arguments: none - modifiers: none verb: take - predicate: a stroll along the beach - arguments: we (ARGO), a stroll along the beach (ARGI) - modifiers: none 5. PSG parsing visualizes sentences in hierarchical format & is trained on millions of sentences, giving it assured accuracy. However, it ais noticably more complex than the dependency parse, which uses fewer nodes. Finally, the SRL parse is even shallower A gets closest to the semantics & logic of the sentence. For the sentence used here it seems that all 3 parses worked well in identifying the structural dependencies & parts of speech of each part of the sentence.