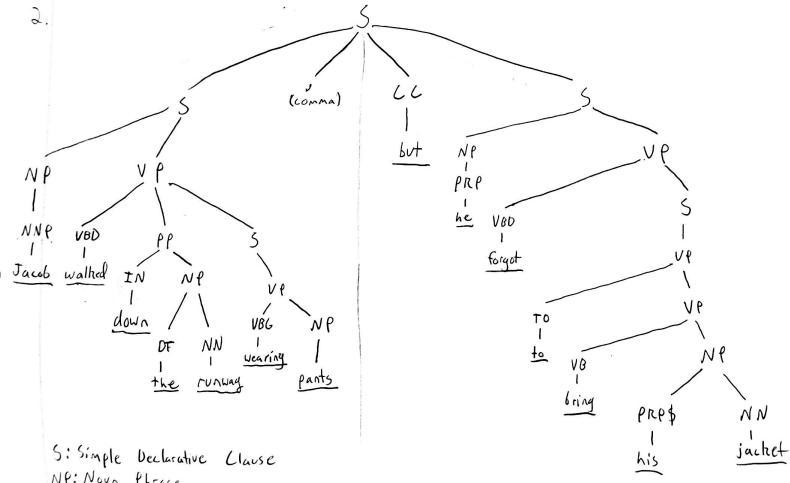
Portfolio Assignment: Sentence Parsing

1. Jacob walked down the runway wearing pants, but he forgot to bring his jacket.



NP: Noun Phrase

UP: Verb Phrase

3.

PP: Prepositional Phrase

nsubs

conjunction. Relation between two elements connected by a coordinating

punct (punctuation): Used for any piece of punctuation in a clause.

Obj (object): Used to define object relations

cc (coordination): Relation between an element of a conjunct and the coordinating conjunction word of the conjunct.

xcomp (open clausal complement): xcomp of a verb or adjective is a predicative or clausal complement without its own subject.

<u>Asubj</u> (<u>nominal subject</u>): Nominal which is the syntactic subject and the proto-agent of a clause.

Compound: prt (phrasal verb particle): Identifies a phrasal verb, and holds between the verb and its particle.

det (determiner): Relation between the head of an NP and its determiner.

acl (clausal modifier of noun): finite and non-finite clauses that modify a nominal.

mark (marker): Word introducing a finite clause subordinate to another clause.

hmod: poss (possessive nominal modifier): Used for a nominal modifier which occurs before its head in the specifier posistion used for 's possessives.

Uerb: Walked Jacob walked down the runway wearing pants, ...

ARGO Red ARGM-DIR ARGM-ADV

Arguments:

Argo: Jacob, the agent that "walked"

Modifiers:

ARGM-DIR: Direction of action

ARGM-ADV: Modifies the event structure of a sentence.

Jacob walked down the runway wearing parts, ...

Pred AR61

Arguments!

ARGO: Jacob, the agent wearing pants.

AR61: Pants, passive actor which is being worn

Modifiers:

None

Verb: Forgot
..., but he forgot to bring his jacket.
ARGO pred ARGI

Argument:

ARGO: He, the agent that forgot

AR61: passive actor which has been forgotten

Modifiers:

Verb: Bring

..., but he forgot to bring his jacket

ARGI

Arguments:

ARGO: He, the agent which is bringing his jacket ARGI: His jacket, which is the passive actor being brought

Modifiers:

None

5. The PSG free is very useful for breating down sentences into sentence constituents ranked as a hierarchy of phrases which is easy to understand for humans AND computers, but can suffer from different issues of ambiguity due to its non-determinism. This ambiguity was not found in my sample sentence, so the PSG performed very well.

The dependency tree concisely brotze down my sample sentence into their relations, effectively showing how each part of the sentence depends on the others. Some of the dependencies did seem like they could be more accurately expressed, however.

The STL parse was the easiest parse to understand because it breaks down the text into ligger chunks and defines them using clear arguments and modifiers. Because of this, some information is lost in comparison to a more detailed parse, like the dependency parse.