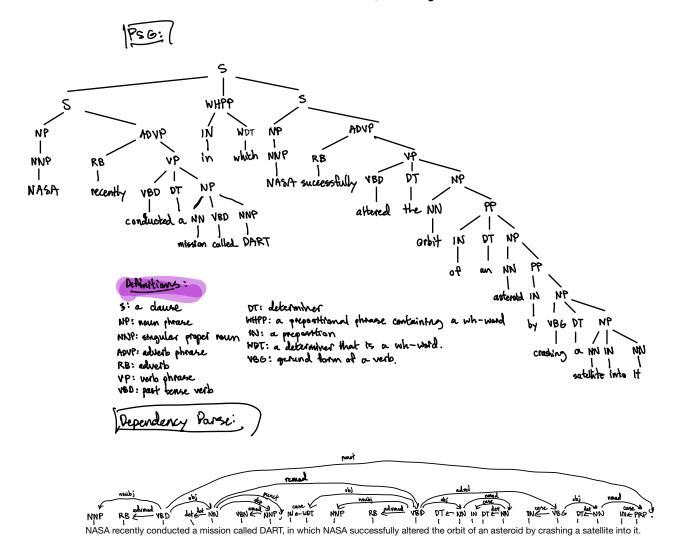
Sentence: NASA recently conducted a mission called DART, in which NASA successibility altered the orbit of an asteroid by crashing a satellite into it.



# Definitions:

noubj: nominal subject relation advanad: rerb is madified by adverto

dobj: mission is direct object at conducted

det: determiner relation punct: punctuation relation

dep: vague relation to show "mission" and "DART" me the same.

amed: adjective medifies a noun phrase

aduct: clause modifies a verb

nmad: nominal madifier; basically an attribute of an object

case: care marking relation, denotes dependency remad: relative madifier, relative clause that madifies a naun phrouse.

# SRL Parse:

All predicates

- conducted ARGO: NASA, ARGO: a master called DART, etc. ARGM-TMP: recently
- called: ARG1: a misston, ARG2: DART
- aftered: ARGO: NASA, ARGO: the wint of an asteroid, ARGM-LOC: a mastern called DART, R-ARGM-LOC: in which, ARGM-MNR: successfully, ARGM-MNR: by crashing a satultite into it crashing: ARGO: NASA, ARGO: a satultite, ARGM-DIR: Into it

### Definithans:

- ARGO: The agent performing the action
- ARG1: Passive actor
- ARG2: The (nathrument by which an action is performed).
- ARGM-TMP: When action was performed.
- ARBM-LOC: Where the aethan occurred.
- ARGM-MNR: How the action was performed
- R-ARGM-LOC: The R just says the phase references the location.
- ARGM-DIR: Mollin along a parth

# Pras/cons:

#### P66:

Pros: PSG can be performed reasonably well by a machine using rules for my sentence it was pretty clear how to split my sentences into phreases and tokens by consulting the rules of certain tags.

coms: Because the rules are rigid, parsing takes a long three. Furthermore, because my sentence was complex I had to do frequent backtracking to make more logical parses.

Dependency Parsing:

Pras: Repundency Paneling directly shows the relations between words, not just how the parestry is done. For example, "mission" and "DART" are shown too be related instead of heaving the relation implicit.

coms: super convoluted for some relations, such as the case relation and some the runal and advel relations. Also really hard to draw reatly.

# 5RL:

Pros: Machine learning! Don't have to figure out the parsonny by hand. Also is pretty accurate, and since it sives semantic roles we galn new inarights about the sentence.

cons: Probably ignit perfectly accurate and it requires training an ML model.