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Sentence Parsing

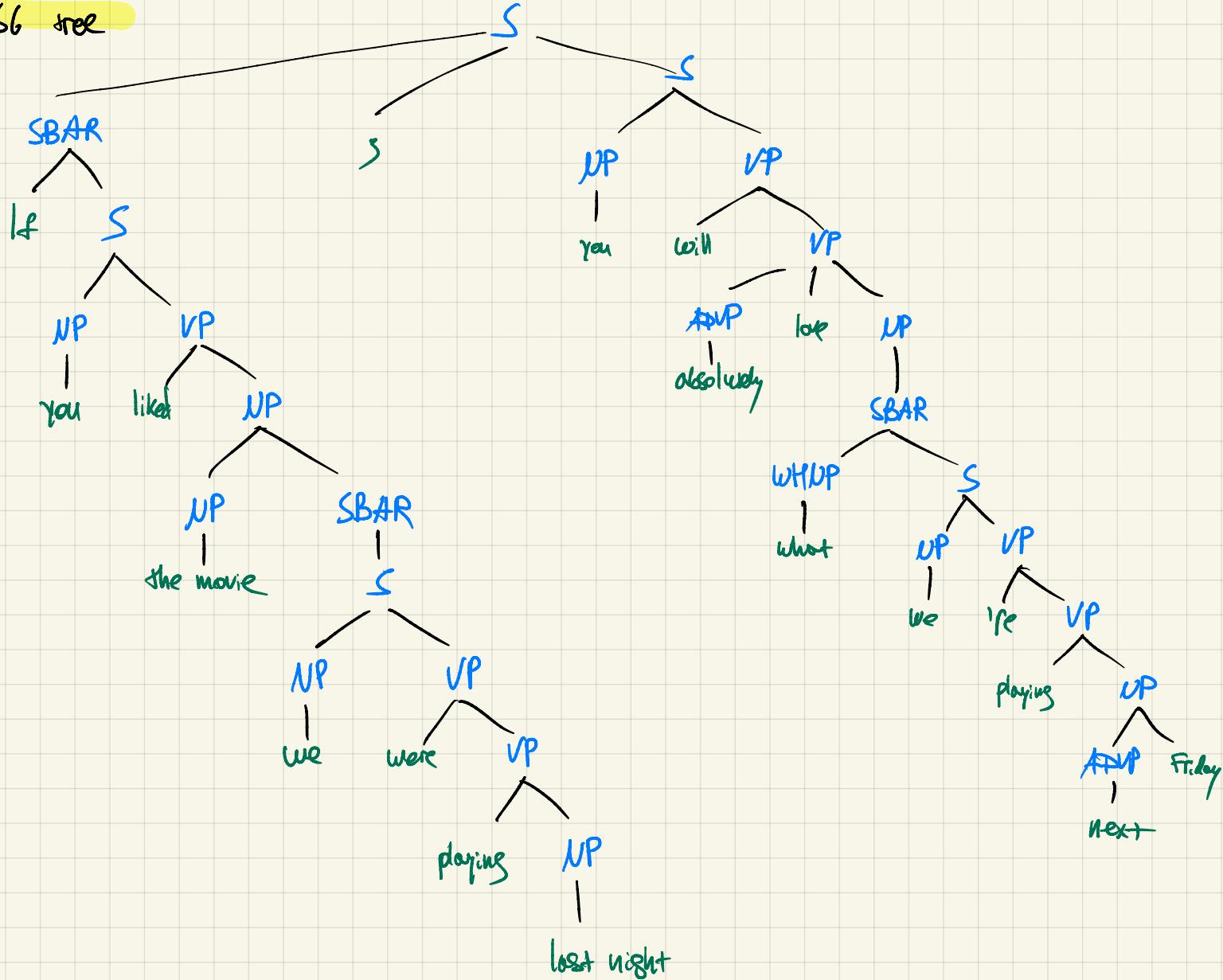
1)

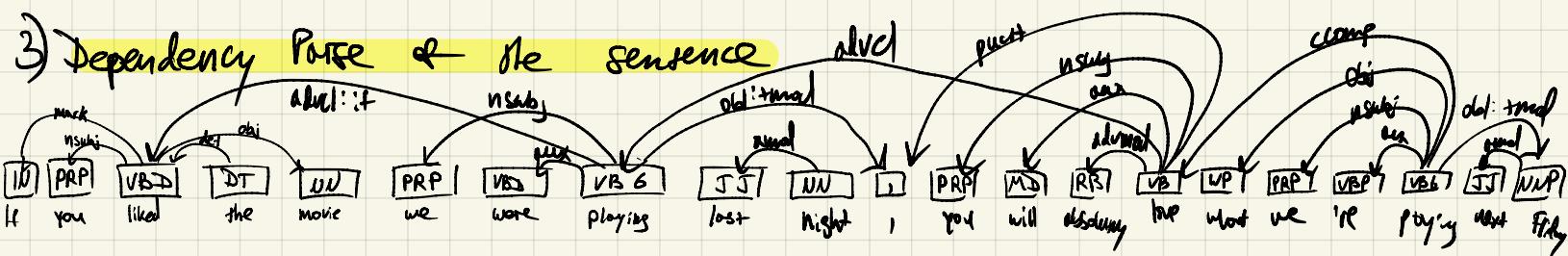
Sentence:

"If you liked the movie we were playing last night, you will absolutely love what we're playing next Friday!"

2)

PSG tree





4) Semantic Role Labeling

Frames for like:

If you liked the movie we [were] playing last night, you will absolutely love what we're playing next Friday!
V

Frames for were:

If you liked [the movie] [we] were [playing] [last night], you will absolutely love what we're playing next Friday!
arg1 argo V argm-tmp

Frames for playing:

If you liked [the movie] [we] were [playing] [last night], you will absolutely love what we're playing next Friday!
MS1 argo V argm-tmp

Frames for will:

If you liked the movie we were playing last night, you [will] absolutely love what we're playing next Friday!

Frames for love:

If you liked the movie we were playing last night, [you] [will] [absolutely] [love, what we're playing next Friday!] MS1 argo argm-had argm-adv MS1

Frames for 're:

If you liked the movie we were playing last night, you will absolutely love what we're [playing] [next Friday!] argm-tmp

5)

The PSG parse organizes sentence constituents into a hierarchy of phrases. The main advantage of this parse is that it can process quite complex and varied sentences as the parse was trained on millions of annotated sentences to be able to model the structure of natural language.

The Dependency parse displays relationships between the words in a sentence in an acyclic graph. It's very good when it comes down to understanding which word is used in a combination with another word, thus allowing you to extract more accurate information. Sometimes, 2 words together have more meaning than 2 words separately, so this model allows you to extract more information in terms of that.

The SRL parse determines the role of a sentence that constitutes relatively to a verb. It's very good for parsing when you are looking for specific information like location/place or what the objects or people are mentioned in the sentence. The con is that if your sentence doesn't have many verbs, this parse won't be as helpful.