20_HOMEWORK3_extending_the_left_corner_parser

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CO Open in Colab

0.1 Homework 3: extending the grammar and the left-corner parser

Exted our grammar left-corner parser in the same way you extended the top-down parser:

- with intransitive verbs like *sleeps*
- with sentential-complement taking verbs like *believe*

That is, add the following phrase-structure and lexical-insertion rules to the grammar:

$$
\begin{array}{rcl}
\text{VP} & \to & \text{V} \\
\text{VP} & \to & \text{V CP} \\
\text{CP} & \to & \text{C S} \\
\text{V} & \to & \text{sleeps} \\
\text{V} & \to & \text{believes} \\
\text{C} & \to & \text{that}
\end{array}
$$

Add the new lexical items to declarative memory and add new production rules to procedural memory to encode the new phrase-structure rules.

Once your model is in place, parse the sentence *Mary believes that Bill sleeps*.

Also, parse the sentence *Mary likes Bill*, to show that you can still parse the original example we used.

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[ ]:
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