

Phrase Structure Rules

- $S \rightarrow NP VP$
- $NP \rightarrow Det (A) N$
- $NP \rightarrow PRN$
- $NP \rightarrow PN$
- $NP \rightarrow \{Det (A) N, PRN, PN\}$
- $VP \rightarrow V (NP) (NP) (S) (PP)$
- $PP \rightarrow P NP$
- Recursiveness

$$NP \rightarrow \left[\begin{array}{l} Det (A) N \\ PRN \\ PN \end{array} \right]$$

Universal

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Recursive Structures

- $[_S I \text{ know that } [_{S_1} \text{he is a student}]]$
- $[_S I \text{ know that } [_{S_1} \text{he is the student } [_{S_2} \text{who dropped the course}]]]$
- $[_S I \text{ know that } [_{S_1} \text{he is the student } [_{S_2} \text{who dropped the course } [_{S_3} \text{that he didn't like}]]]]]$
- $[_{Comp} \text{that}] [_S \text{he is a student}]$

- Complementizer

Comp

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