Syntax General Linguistics

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Syntax Constituents

Activity 1: Consider the following English sentences

- (1) The boy read the book.
- (2) The boy left.
- (3) The girl ate an apple.
- (4) The girl eats an apple for breakfast on a daily basis.
- 1. Can you identify how many costituents there are in each of the sentences above?
- 2. Can you label these constituents?
- 3. Can you work out arguments that sentences do in fact have internal constituents?

Syntax Constituents

Constituent: is a word or a group of words that functions as a single unit within a hierarchical structure.

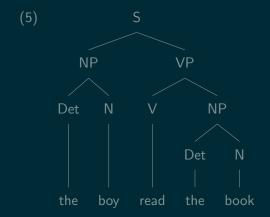
We can represent constituents through 2 ways:

- ► Labeled bracketing.
- ► Tree diagrams.

Remark: we use *consituency tests* (question-formation, replacement...) to verify whether a word or group of words function as a constituent/single unit.

Structure Representation

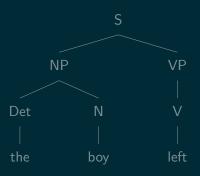
Tree diagrams



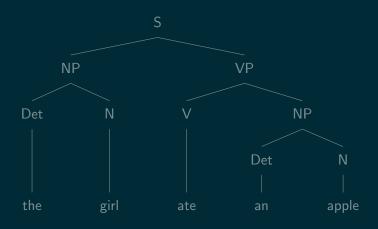
Labeled bracketing notation (skip this)

(6) $[_{S}[_{NP}[_{Det}]]_{Det}$ the $][_{N}]_{Det}$ book]]]]]

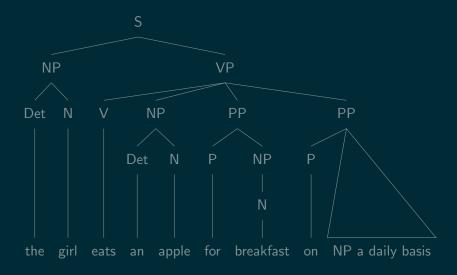
Syntax tree diagrams



Syntax tree diagrams



Syntax tree diagrams



Phrase-Structure Rules (1)

Phrase-structure rules: the rules that determine the basic constituent structure of sentences are called phrase-structure rules. They state what every constituent can be composed of.

- ► Claim: the grammars of all languages have phrase-structure rules because all sentences in all languages conform to certain constituent structures.
- ▶ Our knowledge of syntax consits of knowledge of such rules.
- ▶ Phrase-structure rules **generate** trees (generative grammar).

Phrase-Structure Rules (2)

▶ Phrase-structure rules have the following form:

$$XP \quad \rightarrow \quad ... \ X \ ..$$

Where all material in "..." is optional and X is a variable ranging over lexical categories (N, P, V, Adj,), i.e. it is possible for a phrase to consist only of its head.

Examples

Lexical Insertion Rules

Lexical insertion rules: A sentence is obtained only when the lexical entries of the appropriate category are inserted into the bottom of a tree. Lexical insertion rules are expressed in PS-rules:

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e.g. V \rightarrow \{walk, drink, sleep, forgive, dream...\} N \rightarrow \{tree, freedom, bread, house, woman...\} A \rightarrow \{weak, big, hot, evident, short...\}
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