

4. CFG

Monday, February 22, 2021 8:23 AM

Grammar: defines syntax of a programming language

Lexical analysis

1. Longest matching prefix
2. Choose the rule that comes first

CFG

- Set of terminals (tokens)
- Set of non terminals (capital letters)
Syntactic variables
- Production rules: LHS (head) \rightarrow RHS (body)
- Start symbol

Parse tree: diagrammatic representation

Leftmost derivation

Rightmost derivation

Parsing

- Top down
- Bottom up
 - o Handles

Ambiguous grammar