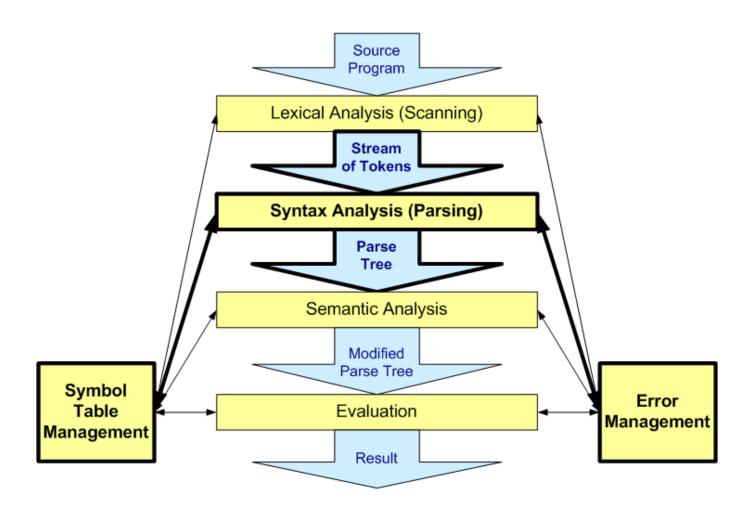
## INTERPRETATION PHASES



## SYNTAX ANALYSIS = PARSING = HIERARCHICAL ANALYSIS

- Parser:
  - reads a stream of tokens,
  - recognizes the grammatical phrases that they form,
  - and outputs a parse tree showing the grammatical structure of the program
- Parsing can be:
  - top-down using recursive descent parsers built by hand or with tools, or
  - bottom-up using shift-reduce parsers built using tools