

L3-popl

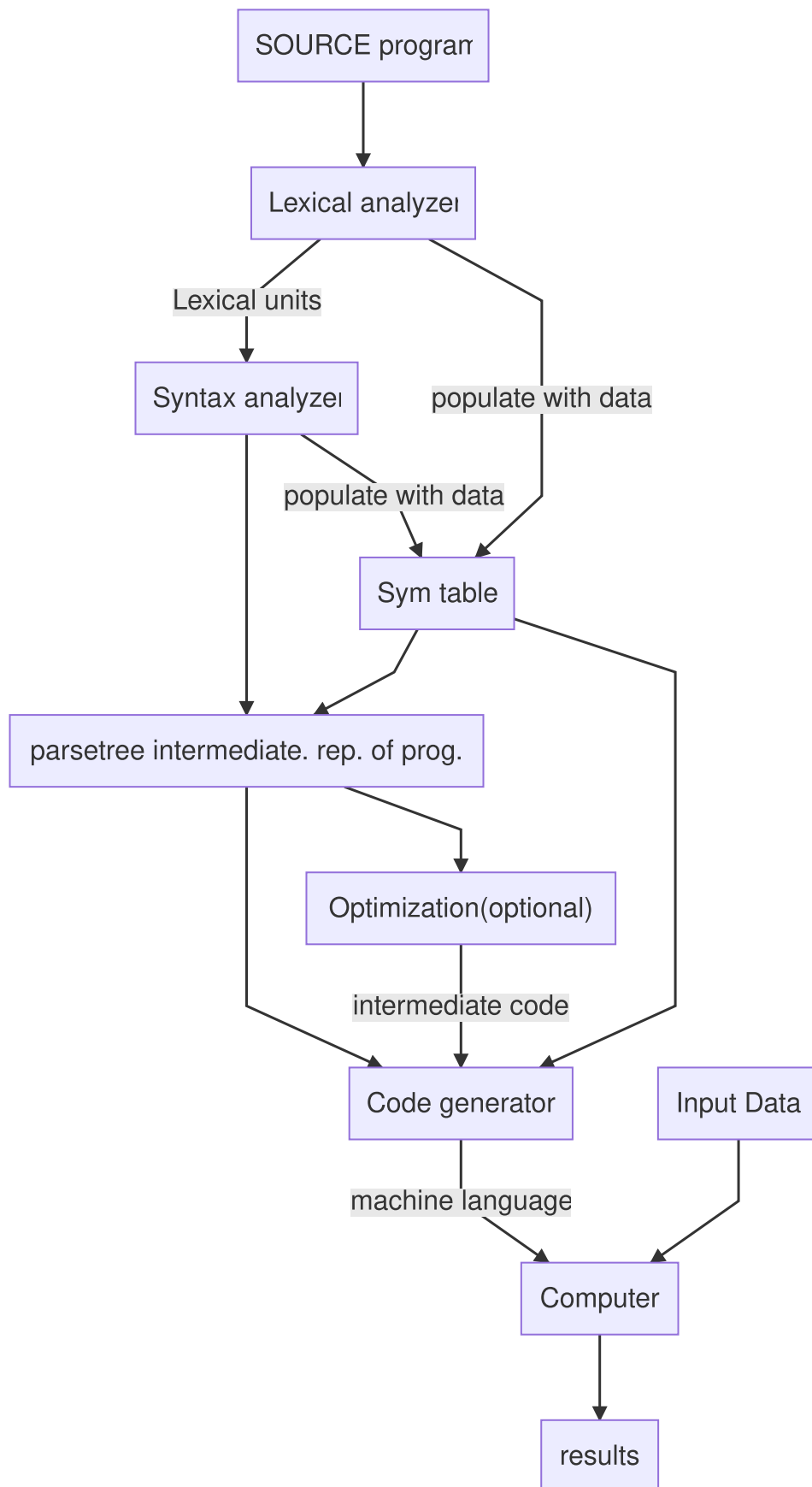
Types of implementation of language

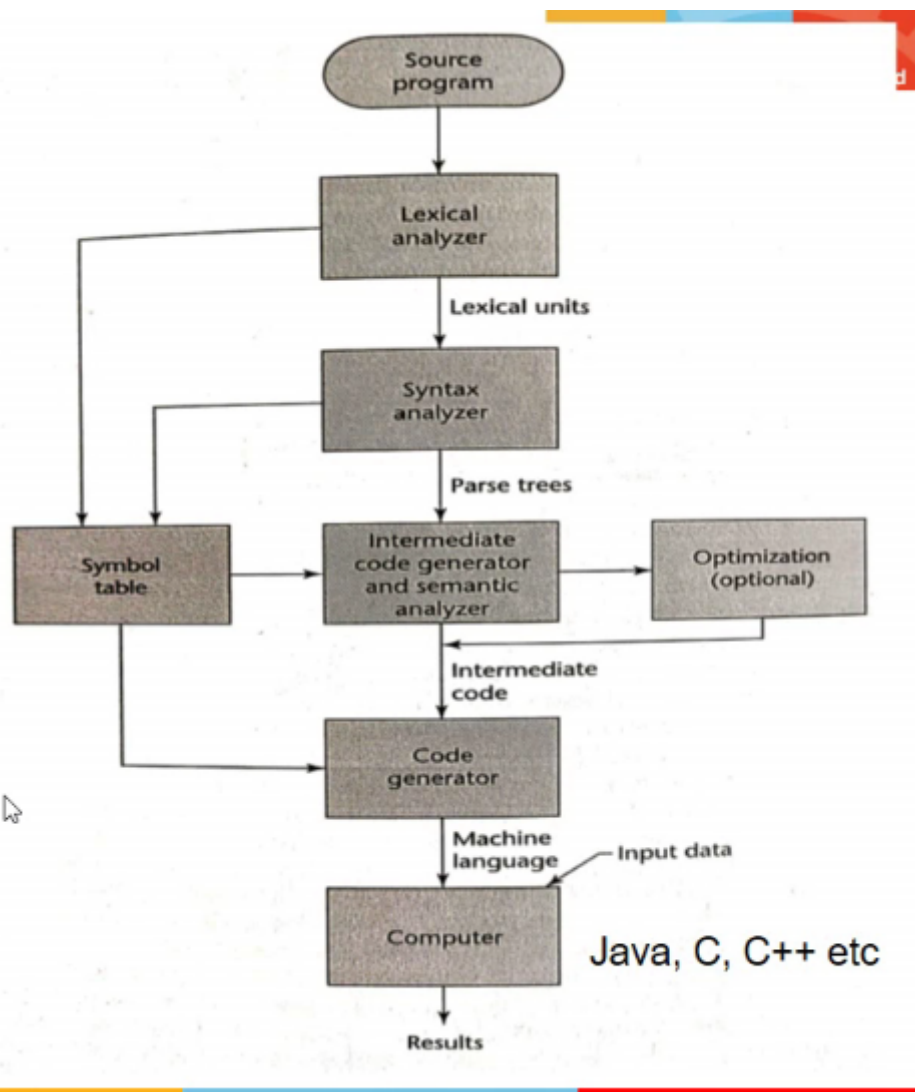
- Compile time
- Interpreted
- Hybrid
- Preprocessed

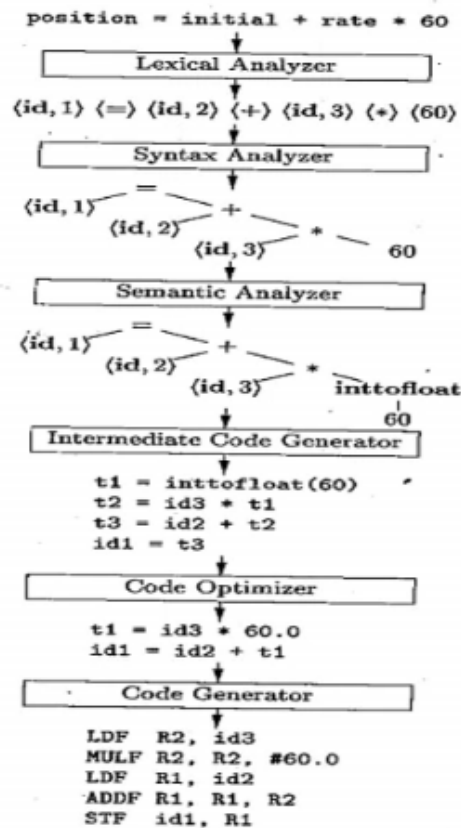
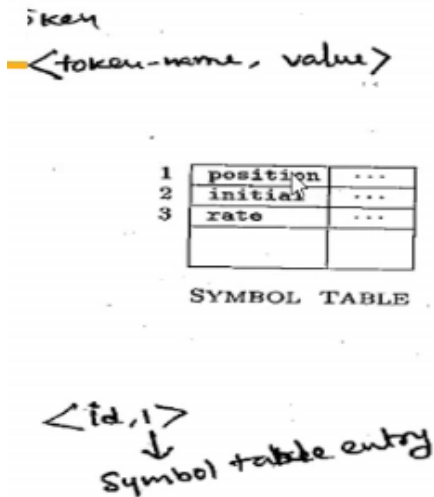
Language processors

- compiler: program that reads a program written in one language (source language) and translates it into another language (target language)

Compilation







1.7: Translation of an assignment statement

as left the meeting

Interpreter

- Directly executes the operations specified in the source programs, on input supplied by user and produces output
- Programs are interpreted by another program called interpreter
- Simulates machine whose fetch decode exec instructions deals with high level program statements rather than machine instructions
- SW simulations provides a VM for the language, Debugging is easy, but is slow as you need to interpret every time you need to run
 - advantages: portability, debugging
 - disadvantage : slow

Hybrid

- JVM: source compiles to bytecode, which is interpreted by JVM

Design tradeoffs

- check slides

Programming Environments

- Jbuilder (old)

- .NET
- UNIX (isn't that a kernel?)
- Netbeans

That' sall, folks
