

AMS 129

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Programming Basics

- Simple Question;
 - Computer = ???

Programming Basics

- Simple Question;
 - Computer = Calculator

Programming Basics

- Simple Question;
 - Computer = **A dumbass** Calculator

Programming Basics

- Just addition/subtraction
 - with binary numbers

Programming Basics

- $10.0 - 1 \neq 9.0$
- $2.0 \neq 10.0/5.0$
- $3.2 - (1.6*2.0) \neq 0.0$

Programming Basics

- You need to give a clear and precise direction to the computer
 - to do the right things!
- You have to have a doubt with the results every time.

Languages

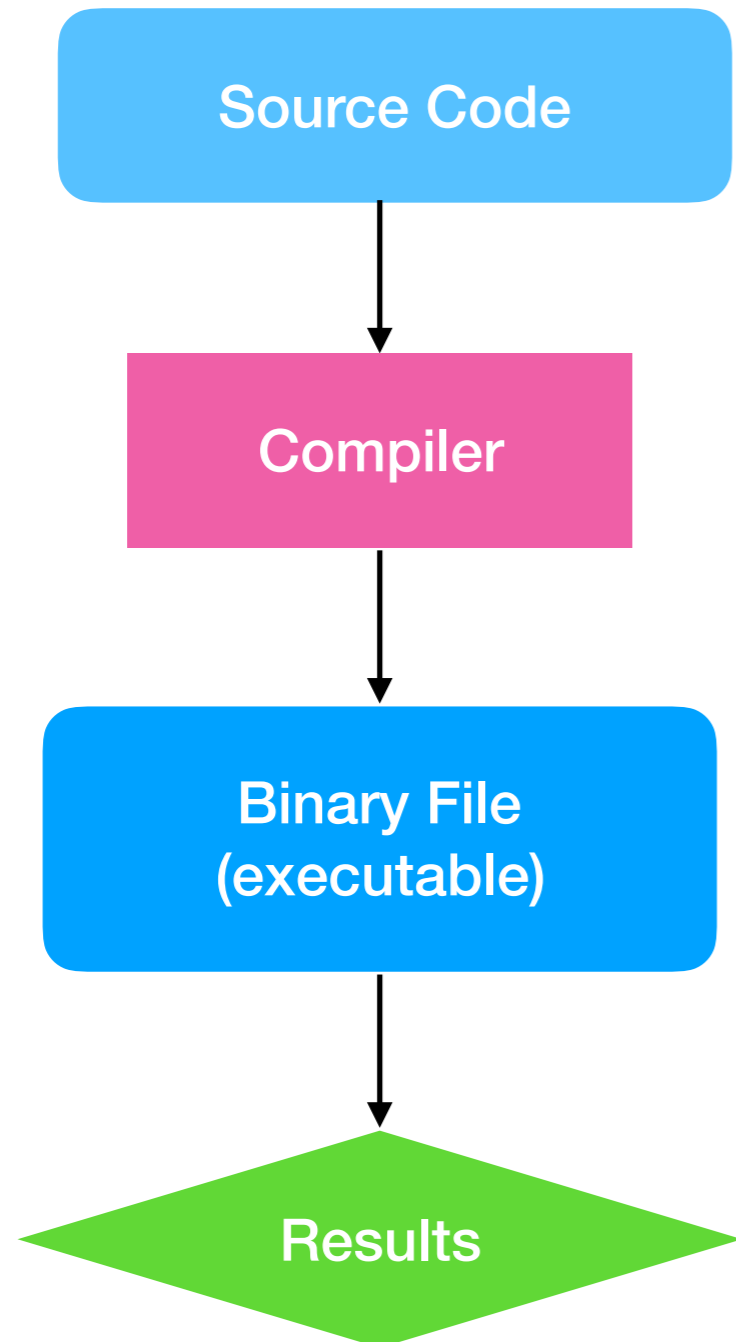
- Computer only speaks a 'binary' (or 'assembly lang.')
- Programming language is a bridge between human language and machine language.
- Compiler translates programming language into machine lang.

Languages

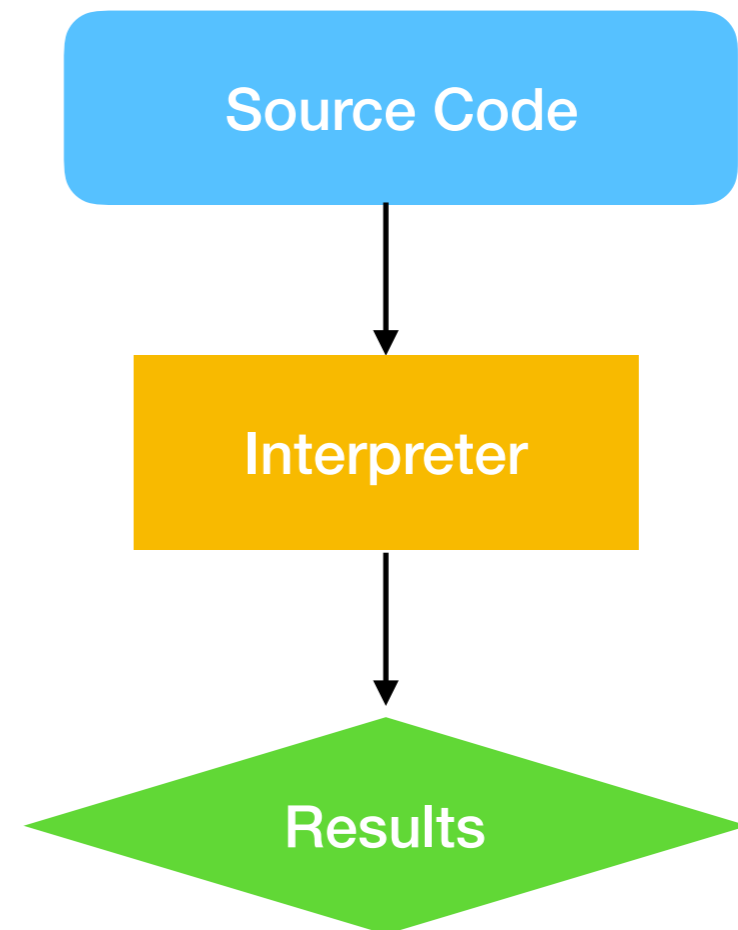
- Compiled language
 - C/C++
 - Fortran
 - Java
- Scripting language
 - Python
 - Ruby

Languages

Compiled Language



Scripting Language



Fortran

- Lecture note