

Computational Thinking with Programming

@cse_bennett

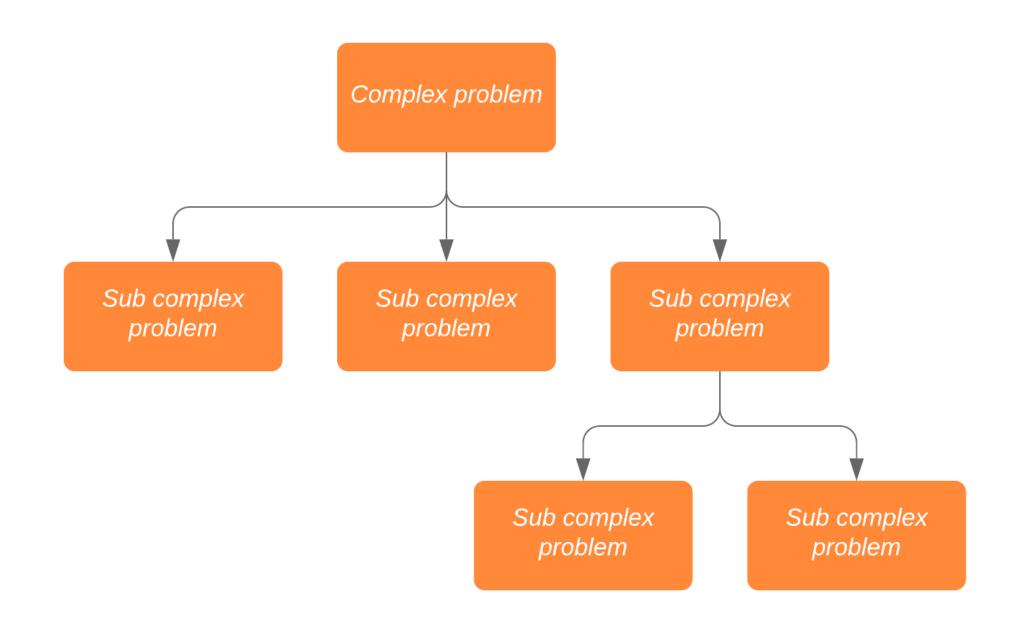


@csebennett









Example Scenario

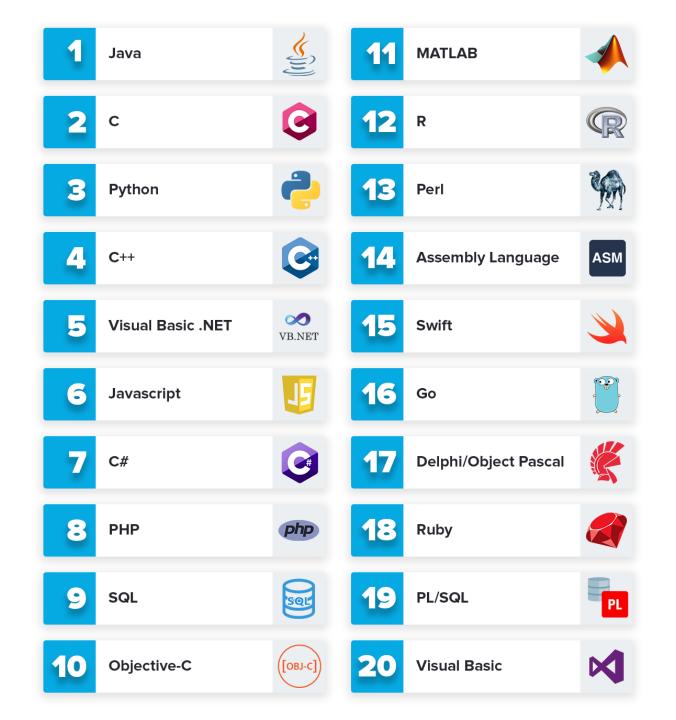
- Complex problem: Goa trip
 - Subcomplex 1: Convincing own parents
 - Not eating properly, making sad face and sadly roaming inside house for no reason
 - ullet Lying to the parents that trip is about IT Industrial Visit (in Goa \odot)
 - Subcomplex 2: Getting money from Dad
 - Being humble in front of dad
 - Promising that you will not spend too much money for the trip
 - Subcomplex 3: Convincing friend's parents
 - Promising that your friend will be safe during the trip (which never happens)
 - Subcomplex 4: Planning and execution
 - Booking travel and accommodation
 - Going to go go goa...

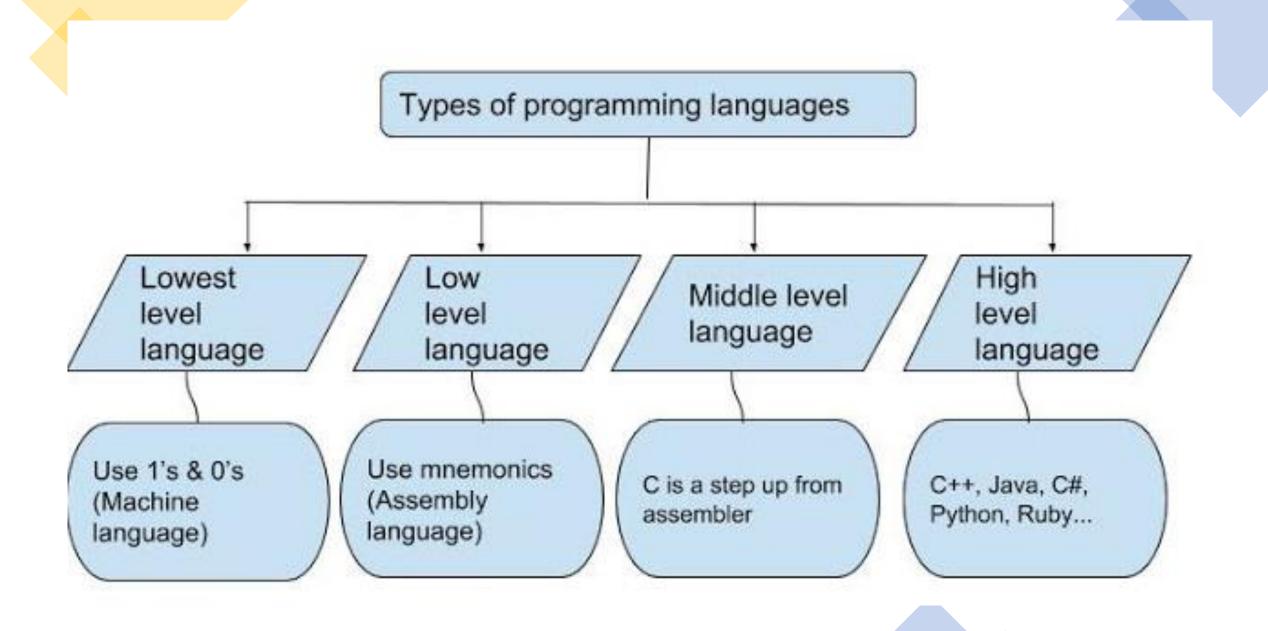
What is Programming?

 A program is a <u>list of instructions</u> that is executed by a computer to <u>accomplish a</u> particular task.

 Creating those instructions is programming by a programmer

Top Programming Languages







7 Reasons Why You Should Learn Nython

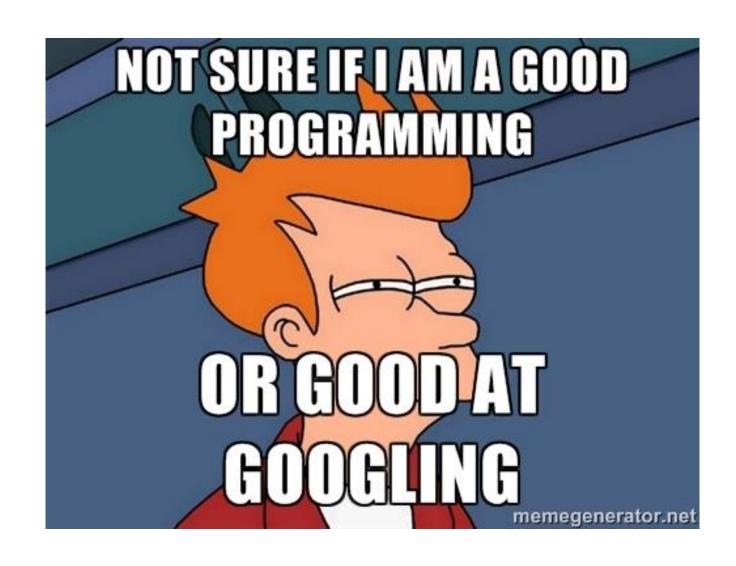




Random Notes

- Python is not everything. It helps you to get started with programming.
- No need to memorize any programming keywords and syntax i.e. awareness > memorization
- Programming is a highly desired skill across engineering disciplines

Google is a good friend



Common Terms

Coding,
Programming

Programming language

IDE (Integrated Development Environment)

Compiler

Error, Bugs, Debugging

Variable, Function

Development, testing, deployment