

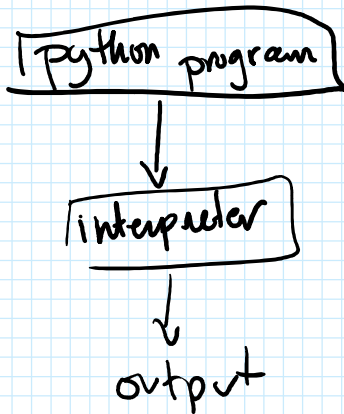
outline

- intro
- course webpage
- his tory of C++
- C++ syntax & semantics intro

C, python, java Script, Wolfram lang,

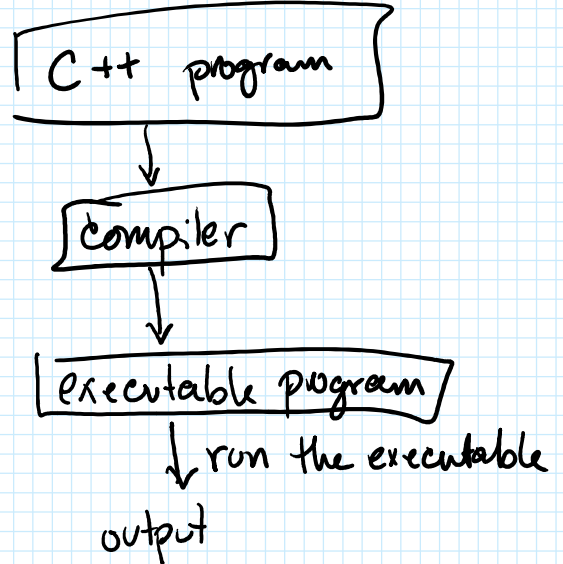
interpreted languages

ex: python



compiled language

ex: C++, C, Java



features

high-level
abstract
inferred types

more efficient execution
(faster, less memory)
must declare types
lower-level details

Comparing:

<u>feature</u>	<u>python</u>	<u>C++</u>
declare variables	n/a	<type> <name>;
end of statement	n/a	;
code block	indentation	{ ... }
multiline comments	""" ... """	/* ... */
single-line comment	# ...	// ...
main	- call main explicitly - no return value	- don't call main - returns int 0 = "everything's ok" anything else = "there's a problem"
libraries	import <library>	#include <library>
printing	print (...)	cout << ... ;
input	input (...)	cin >> <variable>;

Summation(3): returns 6

<u>variable</u>	<u>value</u>
n	3
sum	1 + 2 + 3 = 6
i	1 + 2 + 3 = 4

Code examples on the CS computers at:
/home/fontes/public/cs35

To compile a C++ program:

```
clang++ -std=c++11 <name> -o <executable name>
```