Python Introduction

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Python

Python vs Java & C++

	Python	**Java**	**C++**
Code	Less lines of code	Longer lines of code	Longer lines of code
Syntax	Easier to remember	Has semicolon or curly braces	Has semicolon or curly braces
Speed	Slow because interpreter	Fast, direct compile to run	Fast, direct compile to run
Objects	Can be left undeclared	Declared by user	Declared by user

In essence, Python is fast for the user

It’s easy! This is how to print “hello” in comparison!

	Python	**Java**	**C++**
Print	print("hello")	System.out.println("hello");	cout << "hello" << endl;

Output for python is a simple with **NO SEMICOLON**!

```
print(“hello”)
```

Let’s look at the main file!

This is how our main files look for each language.

Python

Java

```java
class starter {
    public static void main(String args[]) {

    }
}
```

C++

```cpp
// base code file
#include "./hfiles/poole.h"

////////////////////////////////

main(){
    srand(time(NULL));

}
```

Python has no brackets or anything. You just start writing code.

Running labOutput in Python

Inside of the labOutput folder is a file with the following instructions.

1. Right click the folder "labOutput"
2. Click "Open Terminal Here"
3. Type into the terminal "python base.pyc"

Try this with lab 000_Python.

You should expect this output “**This is a test that the labOutput works!**”

After testing labOutput,
move onto Lab 1 slides!