

BASIC TRAINING



Outline:

- Hello World!
- calculator/basic math
- strings
- variables
- basic control statements
 - indentation!

Hello, World.

follow along the code at:
http://bit.ly/pyboot_01

C++

file: hello.cpp

```
#include <iostream>
int main()
{
    std::cout << "Hello World!" << std::endl;
}
```

```
BootCamp> g++ -o hello hello.cpp
BootCamp> ./hello
Hello World!
BootCamp>
```

FORTRAN

file: hello.f

```
PROGRAM HELLO
WRITE (*,100)
STOP
100 FORMAT ( ' Hello World! ' /)
END
```

```
BootCamp> g77 -o hello hello.f
BootCamp> ./hello
Hello World!
BootCamp>
```

Java

file: hello.java

```
class HelloWorld {
    static public void main( String args[] ) {
        System.out.println( "Hello World!" );
    }
}
```

```
BootCamp> javac hello.java
BootCamp> java HelloWorld
Hello World!
BootCamp>
```

example compiled languages

interactive

scripted

file: hello.py

```
print("Hello World!")
```

```
BootCamp> python hello.py  
Hello World!  
BootCamp>
```

```
BootCamp> python  
>>> print("Hello World!")  
Hello World!  
>>>
```

```
In [2]: print("Hello World!")  
Hello World!
```

```
In [ ]:
```

2 points:

1. Python provides both an interactive way to develop code and a way to execute scripts
2. What you do interactively is basically the same thing you (can) do in your scripts