THE ART OF PROGRAMMING WITH PYTHON

```
@anonymous/ThunderousExcitedCylinders 🖋
           saved •
  totalPrice()
#Calculate the installed price. This function calculates area.
cost, and installed price.
def installedPrice():
 global l, w, pps
 global area, carpet_cost, labor_cost
 global installed_price
 area = l*w
 carpet_cost = area * pps
 labor_cost = (0.35 * area)
  installed_price = float (carpet_cost + labor_cost)
#Calculate the subtotal. This function calculates the discount a
def subtotal():
 global d, discount_value, installed_price, subt
 discount_value = float((d/100)* installed_price)
 subt = float (installed_price - discount_value)
#Calculate the total price with discount and tax. This function
and the total price.
def totalPrice ():
 global subt, tax, totalp
 tax = float((8.5/100)*subt)
 totalp = float (subt + tax)
#Print Functions
def PrintResult ():
 printMea()
 printCha()
def printMea():
 global l, w, area
 print ("%30s" % ('MEASUREMENT'))
 print ("%-10s %20s %20f %10s" % ("length", ' ', l ,"ft"))
 print ("%-10s %20s %20f %10s" % ("Width", ' ', w ,"ft"))
 print ("%-10s %20s %20f %10s" % ("Area", ' ', area ," square f
#Print the result. Use two sub-functions to print the results: o
measurements, and one to print the charges.
def printCha():
 global pps, carpet_cost, labor_cost, installed_price
 global d, discount_value, subt, tax, totalp
 print ("%30s" % ('CHARGES'))
```

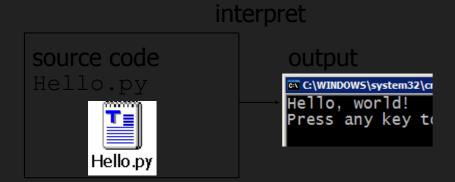
print ("%-10s %20s %20s %20s" % ('DESCRIPTION', 'COST/SQ.FT.',

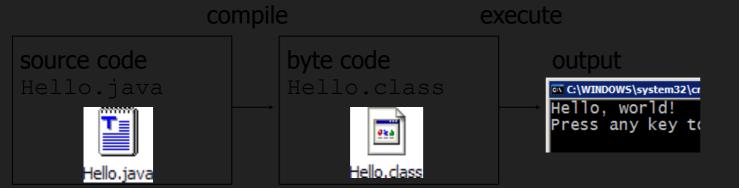
MAJOR POINTS

- WHAT IS PYTHON PROGRAMMING ?
- AN INSIGHT INTO PYTHON, JAVA & C
- ► PYTHON, JAVA OR C?
- WHAT NEXT...
- MAY THE FORCE BE WITH YOU!
- RESOURCES AND CONCLUSION

WHAT IS PYTHON???

High level AND Interpreted language!





Did You Know?:
1st version 1991
Guido Van Rosum
Tribute to the comic
troupe < Monty
Python>

- Dynamically typed: Forget the type just put the data
- Object-Oriented: BLUEPRINTS EVRYWHERE!!!
- FREE AND OPEN SOURCE



DISADVANTAGES OF PYTHON

- ► SLOWER THAN C/C++
- NOT SO GREAT FOR MOBILE APPLICATION SOFTWARE
- FLEXIBILITY TAKES TO MUCH MEMORY!
- ► RUNTIME (ONLY) ERROR



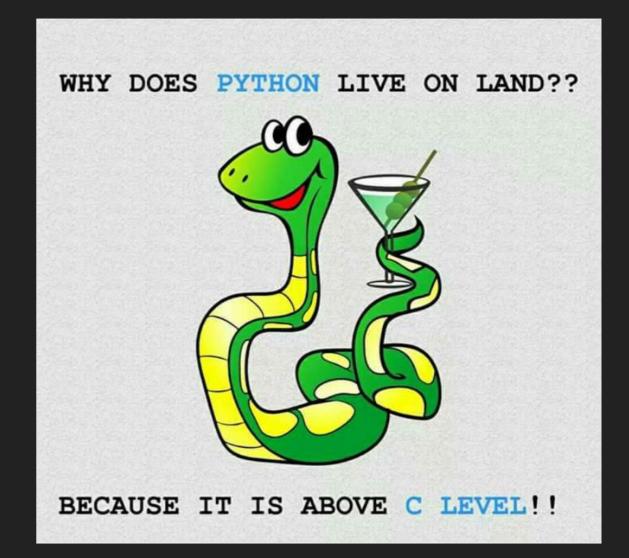
Some Characteristics

.py for Programs and module

.py file directly executed= program/script

.py file via import statement = module

EXCEPTIONS, EXCEPTIONS EXCEPTION EVERYWHERE!



	interpreted	compiled	dynamically typed	statically typed	object oriented	functional	GC	difficulty
JavaScript	X		X		X *	X	X	easy
Ruby/Python	X		X		X	X	X	normal
CoffeeScript		X	X		X	X	X	normal
Objective-C		X	X *	X	X	*	X	nightmare
Java		X		X	X		X	hard
Go		X	X *	X	X *	X	X	normal
Clojure		X	X		*	X	X	nightmare/hell
Scala		X	Х*	X imperative	X	X	X	normal/ nightmare

HELLO, WORLD!

"Hello, World"

```
#include <stdio.h>

int main(int argc, char ** argv)
{
    printf("Hello, World!\n");
}

Java
    public class Hello
{
    public static void main(String argv[])
    {
        System.out.println("Hello, World!");
    }
}

now in Python
    print "Hello, World!"
```

EXTENSIBLE

BRACE YOURSELF, NO MORE BRACES :)

TREAT DIRECTLY REAL LIFE PROBLEMS

CROSS PLATFORM

ACCESSIBLE TO ANYONE

WHAT NEXT...

You Know how to code, now what?

Jobs

- Software Programmer
- Web developer

- Ethical Hacker
- Create games!



Average Salary

\$91,528 per year

Popular Jobs

Developer

109,861 salaries reported

Check it!

CodeAcademy.com

python.org

repl.it

Salary Distribution

Most Reported

\$198,000

\$198,000

\$198,000

\$198,000

NOW THE FUN PART!

RESSOURCES

- https://www.slideshare.net/narendra.sisodiya/pythonpresentation-presentation
- https://data-flair.training/blogs/features-python/
- https://matt.aimonetti.net/posts/2012/10/05/pulsoconf-tour-of-programming-languages/
- https://www.google.com/search? q=python+meme&source=lnms&tbm=isch&sa=X&ved=0ahUK EwiY4_KOvq7eAhVEzlkKHQPsAioQ_AUIDigB&biw=1866&bih= 1044#imgdii=0F_OGpHAhSULoM:&imgrc=3MoRdyRYBkzuqM:

CODE, CODE, CODE!

THANK YOU