

# Python Programming

Short, Unique and Mysterious



Why is the  
Programming  
Language  
named so?





## Monty Python's *Flying Circus*



"At the time when he began implementing Python, Guido van Rossum was also reading the published scripts from "Monty Python's Flying Circus" (a BBC comedy series from the seventies, in the unlikely case you didn't know).

It occurred to him that he needed a name that was **short**, **unique**, and **slightly mysterious**, so he decided to call the language Python."



**-Charlie Cheever**

([Q](#)uora User & Founder)



**Guido van Rossum**

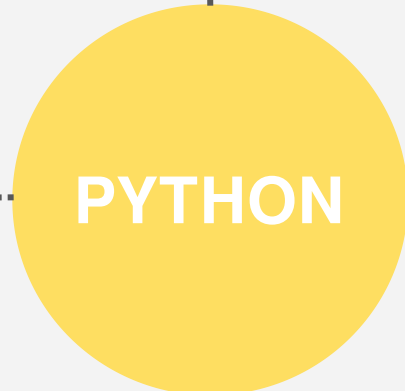


What should I  
know before  
starting?





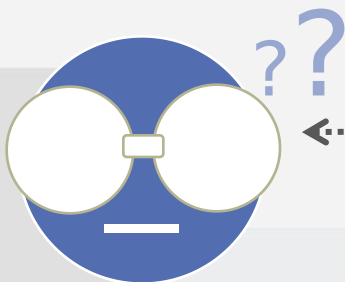
Interpreted



Interactive



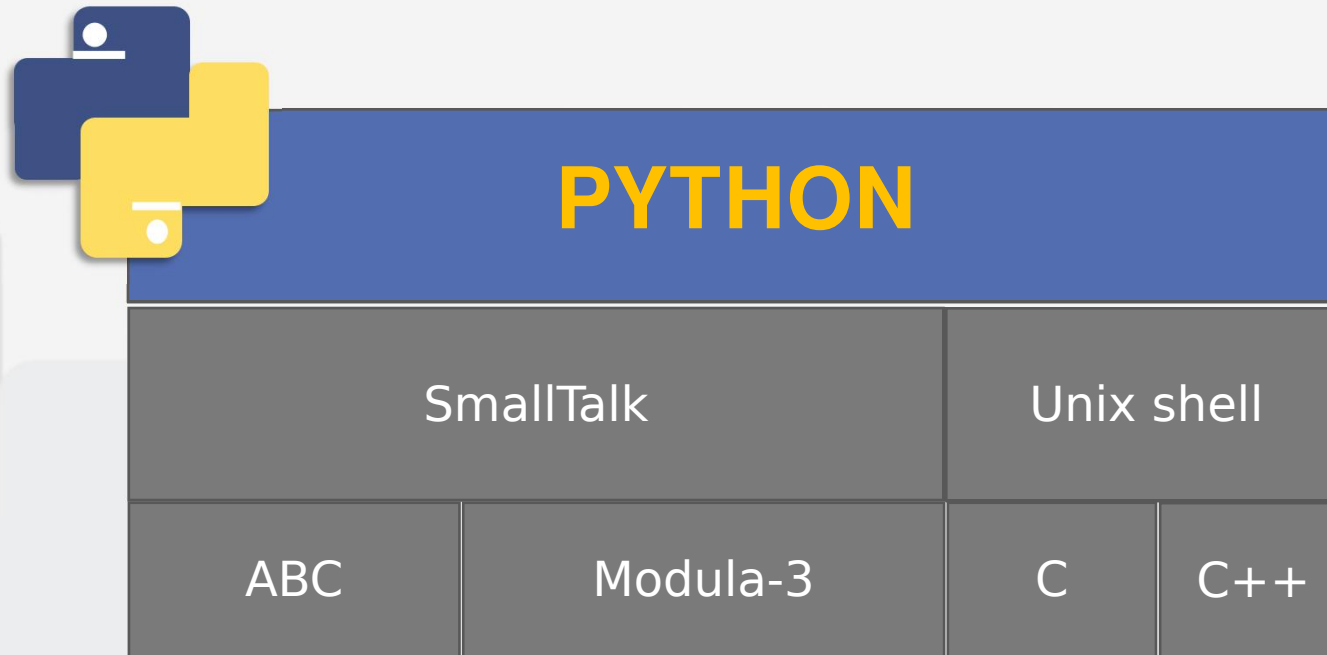
Object Oriented



Beginner friendly



# BUILDING BLOCKS of PYTHON



Note - The placement of Building blocks has no relevance for dependent blocks

# CONTENTS





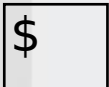
Installation  
&  
Configuration



Learning Basics



# Installation & Configuration

- In latest LTS version of Ubuntu 16.04, Python comes installed with OS. Make sure you've updated version before starting
- To check the version of Python installed using following command on terminal  
`python --version`
- Inorder to update you must perform foll. steps
  1. Open web browser and go to <https://www.python.org/downloads/>
  2. Download appropriate Source code as per OS & Extract files
  3. Run `./configure` script in terminal of with respect to your extracted location, then use `make` & `make install`





# Installation & Configuration

## SETTING UP PATH:

- Programs and other executable files can be in many directories, so operating systems provide a search path that lists the directories that the OS searches for executables.
- The path is stored in an environment variable, which is a named string maintained by the operating system. This variable contains information available to the command shell and other programs.
- The path variable is named as PATH in Unix or Path in Windows (Unix is casesensitive; Windows is not).
- In Mac OS, the installer handles the path details. To invoke the Python interpreter from any particular directory, you must add the Python directory to your path.

Type in Terminal: (Ctrl + Alt + T)

`export PATH="$PATH:/usr/local/bin/python"` and press Enter.





# Learning Basics

## RUNNING PYTHON

**IDE:** IDLE, PyCharm

**Interpreted & Interactive Mode:** Open  and type in `python` or `python3` incase you've updated

```
mister-t@BrightMachine: ~  
mister-t@BrightMachine:~$ python  
Python 2.7.12 (default, Nov 19 2016, 06:48:10)  
[GCC 5.4.0 20160609] on linux2  
Type "help", "copyright", "credits" or "license" for more information.  
>>> print "Hello, Python"  
Hello, Python  
>>> 
```



# Learning Basics

There are slight differences from version to version, and are not majorly changed with respect to syntax

```
mister-t@BrightMachine: ~  
mister-t@BrightMachine:~$ python3  
Python 3.5.2 (default, Nov 17 2016, 17:05:23)  
[GCC 5.4.0 20160609] on linux  
Type "help", "copyright", "credits" or "license" for more information.  
>>> print('Hello, Python')  
Hello, Python  
>>> 
```

