بنداله الحمرالي

What is Python?

Of course, I am not talking about snake.

Python is a clear and Powerful object-oriented programming language, comparable to Perl, Ruby, Scheme, Java or C#.

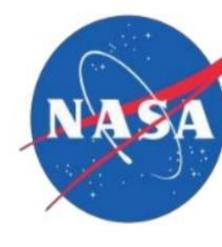


Already in love with Python < 3















mozilla

Hello World! :)

Just one line:print("Hello World")

Hello World



C++

```
Hinclude<iostream>
using namespace std;
int main()
{
cout << "Hello World!";
return 0;
}</pre>
```



Java

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



Python

print("Hello World")

Swap Numbers

C++

```
#include <iostream>
using namespace std;
int main()
{
    int x = 5, y = 10, temp;
    temp = x;
    x = y;
    y = temp;
    return 0;
}
```

Java

```
class SwapNumbers
{
    public static void
main(String args[])
    {
      int x = 5, y = 5, temp;
      temp = x;
      x = y;
      y = temp;
    }
}
```

Python

```
x = 5

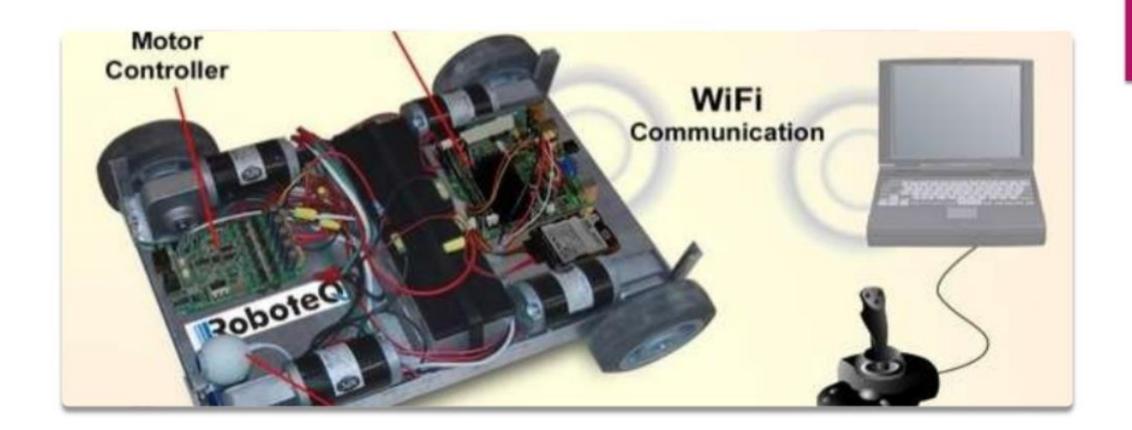
y = 10

x,y = y,x
```



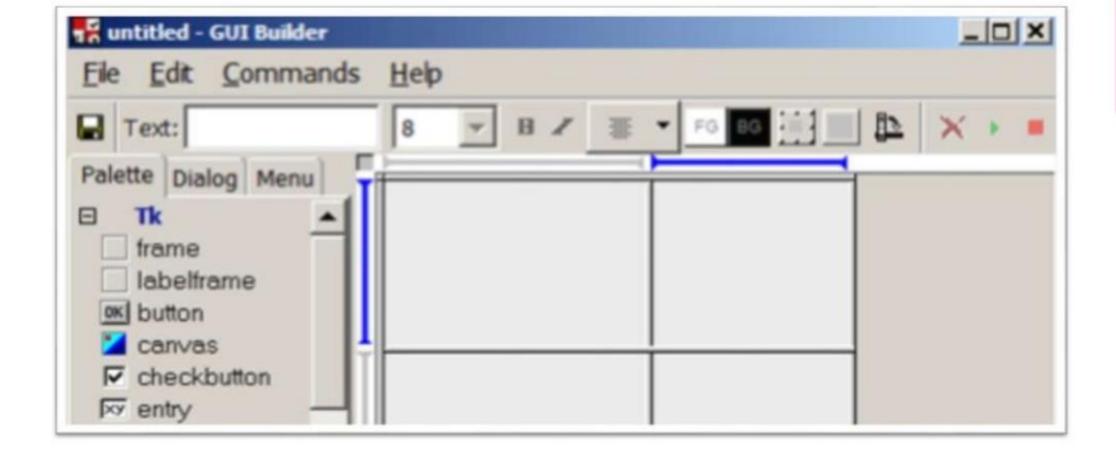
Google

Python provides the power behind the most popular search engine in the world – Google. The programming language can handle the traffic and computing needs of the search engine and its connected apps.



Robotics

Raspberry pi can be used as a **brain** to the **robot** to perform various actions and to react to the environment and the coding on a **Raspberry pi** can be done using python.



GUI development

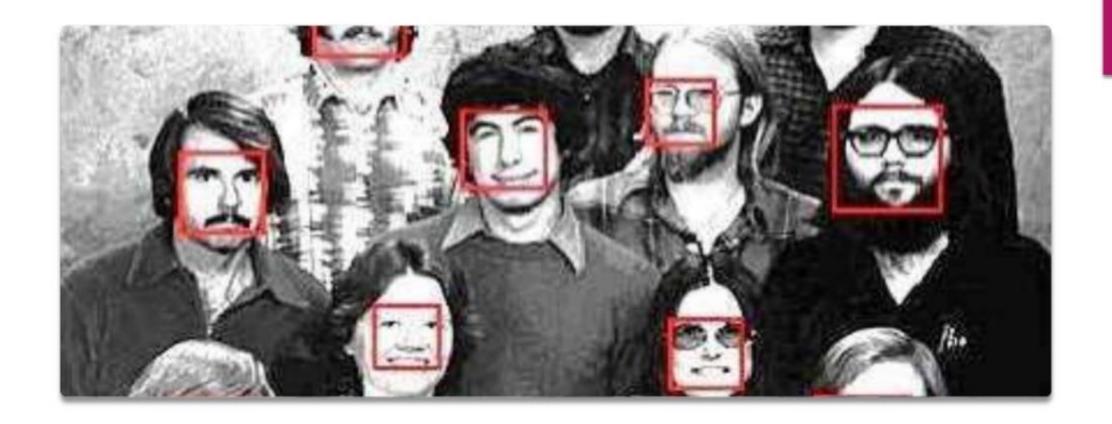
To develop a cross-platform desktop application python can be used. Python has modules Tkinter, PyQt to support it.

Applications of Python

- Web Crawler
 - Using library's like BeautifulSoup
- Web Development
 - Using Libraries like Django and Flask
- Data Structures and Algorithms
 - Using Libraries
- Plugin
- Library

Some more Applications of Python

- Data Science
 - Got some knowledge of Machine Learning and AI? You can implement some algos to build your own.
- Networking
 - ▶ Implement some protocols SMTP, FTP, HTTP
- Cryptography
 - Encrypt and decrypt library, something like, RSA, RC4, DES
- Computer Vision



Computer Vision

You can do interesting things such as Face detection, Color detection using Opency with python

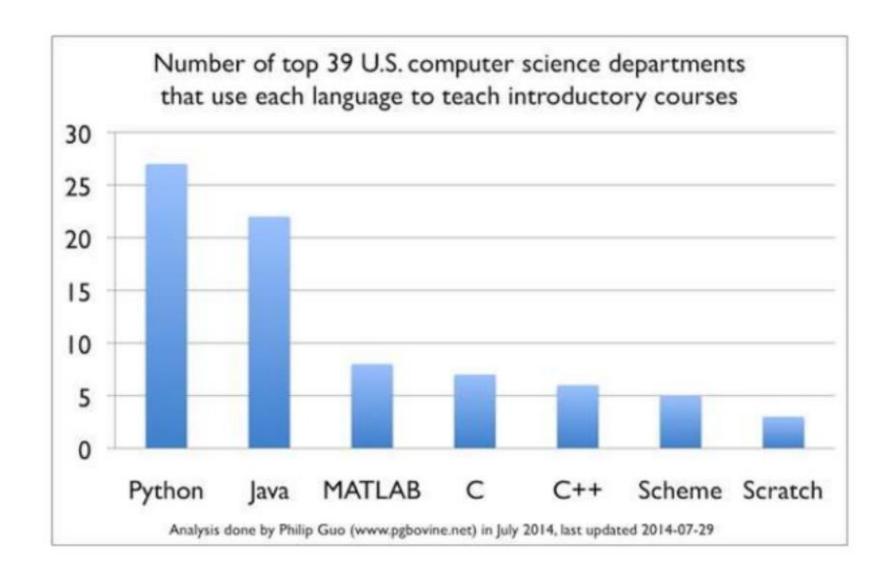
A few more

- Artificial Intelligence
 - SimpleAI
 - EasyAI
- Games
 - Pygame, A few are very popular: Pixel Man, Too many Troopers



Pygame

A video game being developed by using Pygame



What Is Anaconda Navigator?

Anaconda Navigator is a desktop graphical user interface included in Anaconda that allows you to launch applications and easily manage conda packages. It also provides much greater advantages in the data science platform CONDA

What Is Conda?

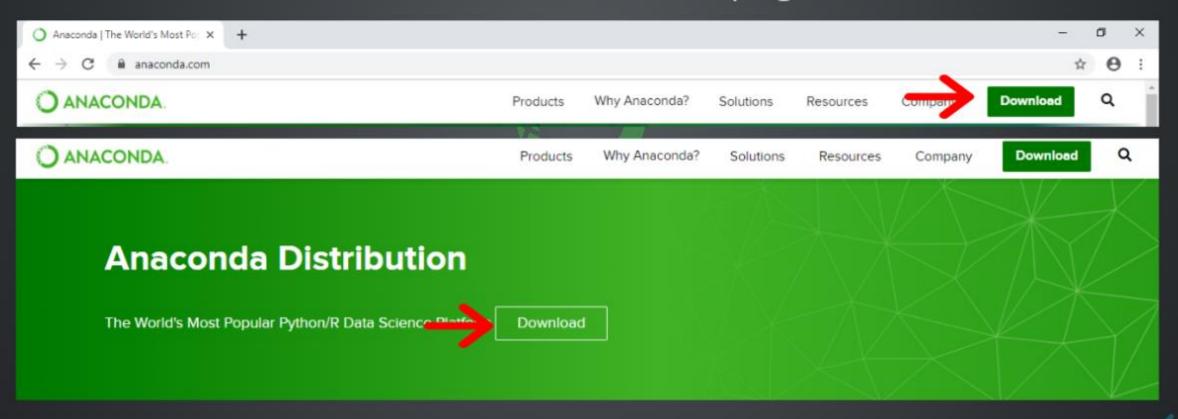
Conda, the Anaconda's own package manager, is used for updating anaconda and its packages. Conda is an open source package and environment management system that runs on Windows, macOS and Linux. Conda quickly installs, runs and updates packages and their dependencies

What Is Jupyter Notebook?

The Jupyter Notebook is a web application that allows you to create and share documents that contain live code .Also to create and edit documents that display the result of Python code

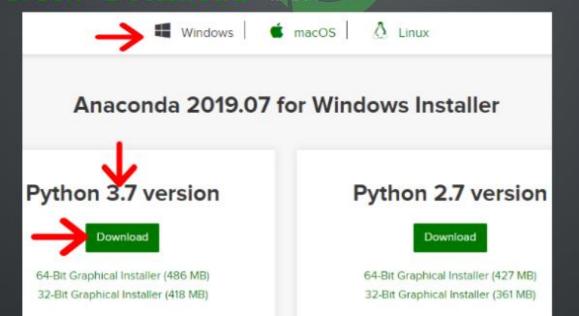
How To Download?

- Visit the official site for the anaconda navigator here: http://www.anaconda.com
- Hit on the download button on the top right corner



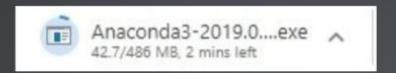
How To Download?

- Scroll down to the download menu
- Select your relevant OS (highlighting with black) be cautious while choosing this (In my case Windows)
- Here you witness two options Python 3.7 & Python 2.7
- Select Python 3.7 & click on the Green "Download" box



How To Download?

- The download will begins
- Open the file. It will start download



 Check all check boxes and click Next on every scenario, click on "Just Me(Recommeded)" at this point

