Page0 - Python

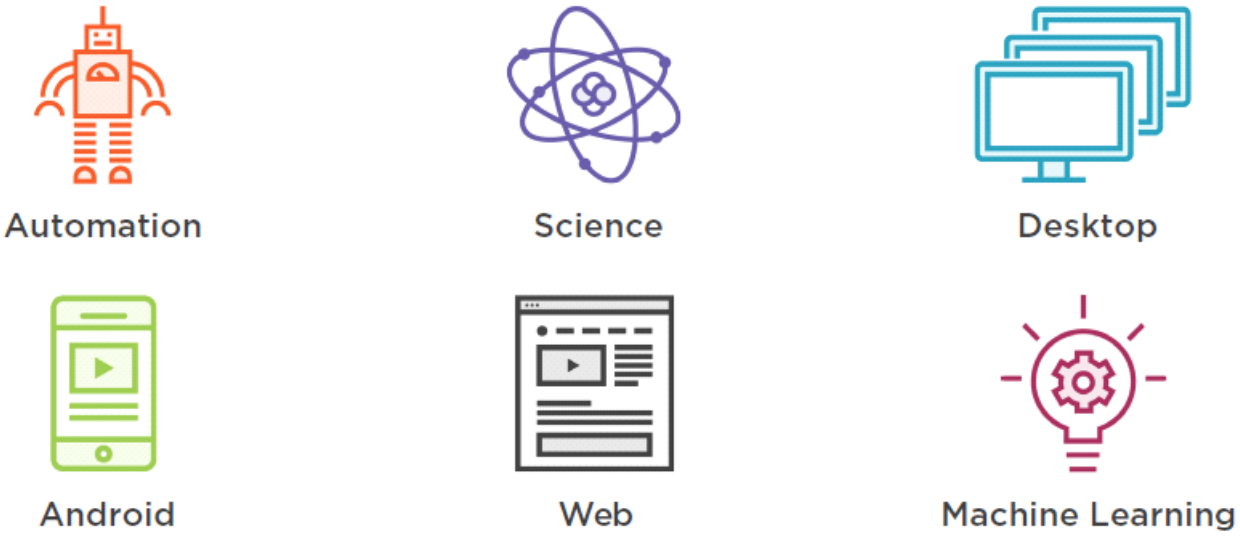
Tuesday, April 10, 2018 11:04 PM

History of Python:-

- ✓ Invented in the Netherlands, early 90s by Guido van Rossum
- ✓ Named after Monty Python
- ✓ Open sourced from the beginning, managed by Python Software Foundation
- ✓ Considered a scripting language, but is much more
- ✓ Scalable, object oriented and functional from the beginning
- ✓ Used by Google from the beginning
- ✓ Designed to be portable and extensible
  - ◆ Originally implemented on UNIX
  - ◆ Programs often can be ported from one operating system to another without any change
- ✓ Syntax and design promote good programming practices and surprisingly rapid development times
  - ◆ Simple enough to be used by beginning programmers
  - ◆ Powerful enough to attract professionals

Why Python:-

- ✓ There are a LOT of different programming languages out there
- ✓ Python is one of the easier ones to learn
- ✓ There are lots of free tools out there you can use to code or learn Python
- ✓ There are a lot of different ways to use Python code
- ✓ Python is **cross-platform** desktop application that has a native look and feel on every operating system
- ✓ **PEP8** is a guiding principle as to how you should write your code to make it more readable
- ✓ In order to develop web apps we use **Django** and **Flask**
- ✓ with Python we can develop Home automation on **RaspBerry Pi** board



❖ Courtesy by Pluralsight

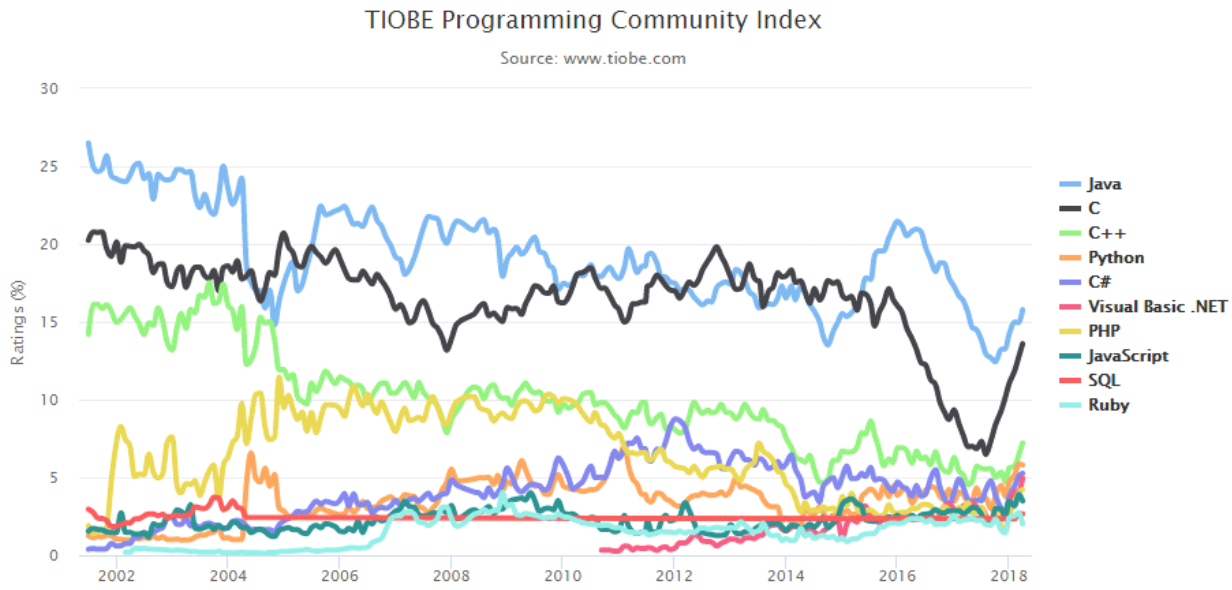
✸ Once you learn how to code in one programming language it will be easier to learn another programming language, and another, and another

JavaScript

C# C++ ???

Perl

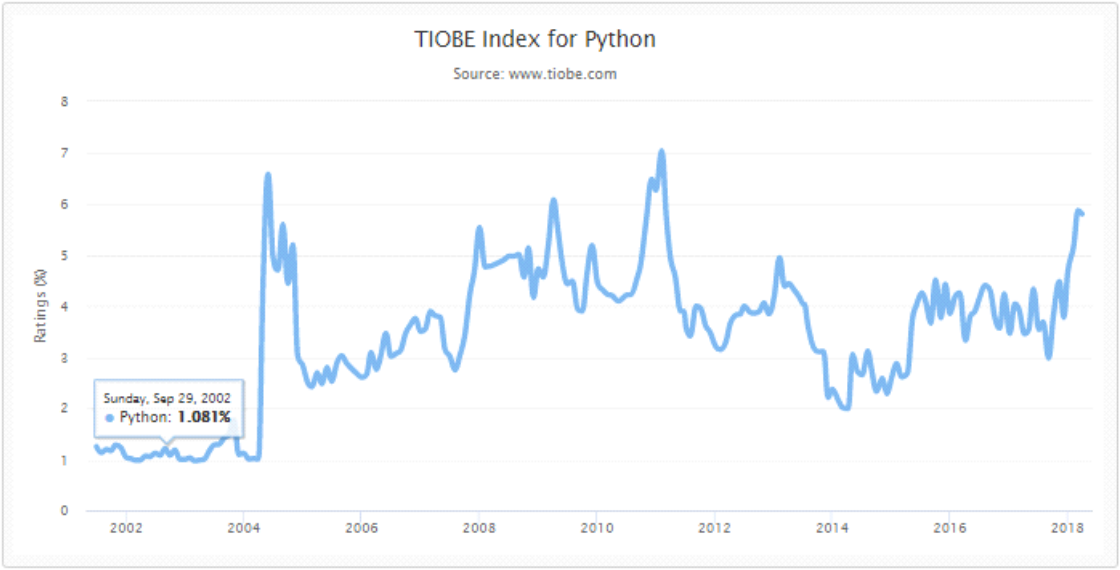
TIOBE Index for April 2018



Highest Position (since 2001): #4 in Apr 2018

Lowest Position (since 2001): #13 in Feb 2003

Language of the Year: 2007, 2010

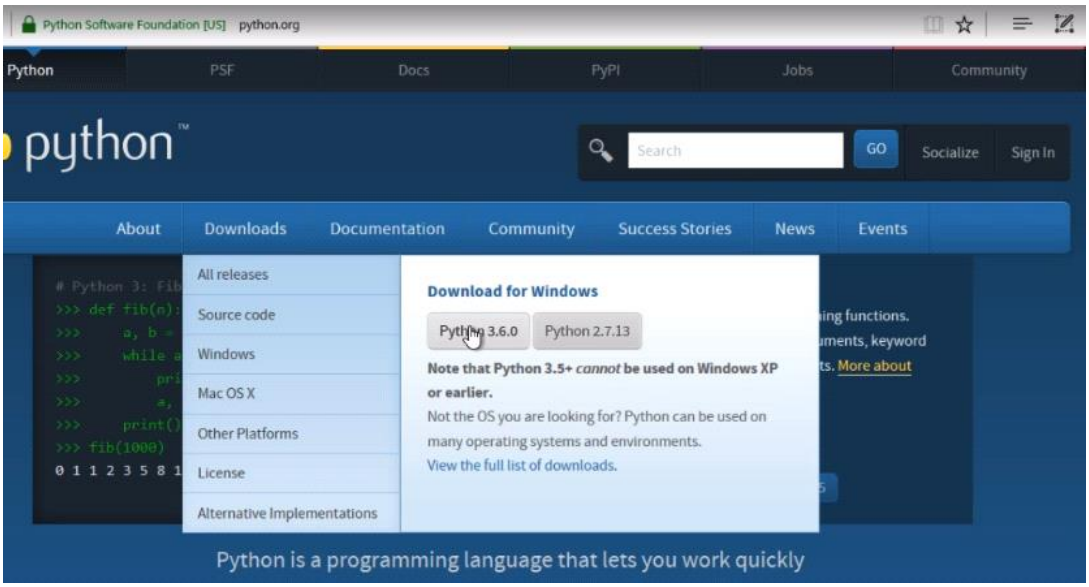


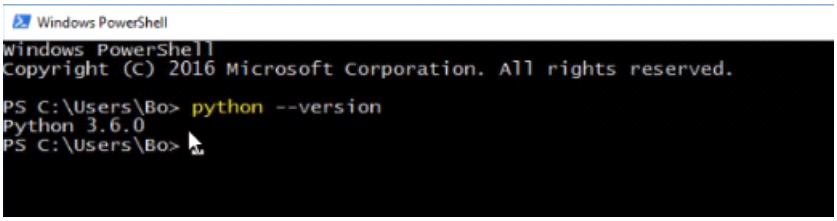
Python 2 vs Python 3

Python 2		Python 3
Maintained, but no new features		New features being added
End of Life (EOL) in 2020		Unicode support by default
Still default on many systems		Cleared some Python 2 confusion
print “Hello World”		print(“Hello World”)
		Minor differences from Python 2

So how do I get started?

Installing Python





Installing PyCharm

PC
PyCharm
Python IDE
for Professional Developers
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