Python for Beginners

01 – What And Why

What is Python?

Invented by Guido van Rossum in 1991

"high-level programming language, and its core design philosophy is all about <u>code readability</u> and a syntax which allows programmers to <u>express concepts in a few lines of code</u>."

- Named after Monty Python
 - → Programming is fun ③
- One of the most popular programming languages today.
- Actual Language Versions
 - Python 2.7.15 → old language path (<u>not compatible</u> with Python 3!)
 - Python 3.7.0 → new language path (modern version)
- Here is your entry point: https://www.python.org



Why Python?

- Easy to learn for beginners
- Very popular and widely used language
- #1 educational language at U.S. universities
- #1 language for statistics and big data analysis
- #1 language for A.I. and machine learning
- #1 language on embedded systems like raspberry pi
- One of the most popular web programming languages
- Python programming is one of the most in-demand jobs in market

PYPL PopularitY of Programming Language

- The PYPL PopularitY of Programming Language Index is created by analyzing how often language tutorials are searched on Google.
- Source: http://pypl.github.io/PYPL.html

orldwid	le, Sept 2018	3 compared to a y	ear ago:	
Rank	Change	Language	Share	Trend
1	^	Python	24.58 %	+5.7 %
2	V	Java	22.14 %	-0.6 %
3	^	Javascript	8.41 %	+0.0 %
4	V	PHP	7.77 %	-1.4 %
5		C#	7.74 %	-0.4 %
6		C/C++	6.22 %	-0.8 %
7		R	4.04 %	-0.2 %
8		Objective-C	3.33 %	-0.9 %
9		Swift	2.65 %	-0.9 %
10		Matlab	2.1 %	-0.3 %

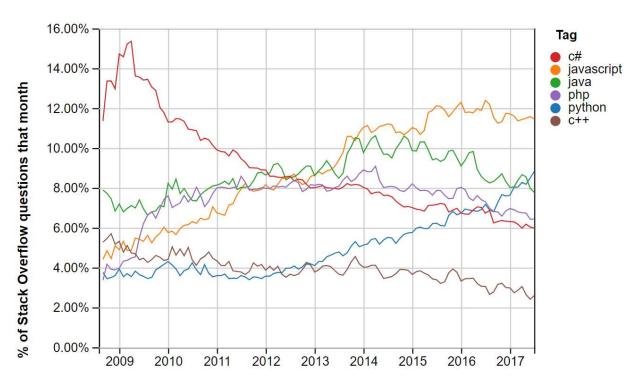
Github Pull Requests Statistic

# Ranking	Programming Language	Percentage (Change)	Trend
1	JavaScript	22.309% (-2.534%)	
2	Python	16.256% (+0.720%)	
3	Java	9.874% (-0.597%)	
4	Go	7.609% (+1.586%)	^
5	C++	7.074% (+1.280%)	^
6	Ruby	6.533% (-0.127%)	~
7	PHP	5.790% (-0.994%)	~
8	TypeScript	4.766% (+1.410%)	^
9	C#	3.336% (-0.554%)	~
10	С	2.938% (-0.073%)	

• Source: https://madnight.github.io/githut/#/pull_requests/2018/2

Stack Overflow Traffic

 Traffic of searching and discussing at Stack Overflow



• Source: https://insights.stackoverflow.com/trends