Python 3

Course

by Mykola Kozlenko

Topic 1 Part 1

History

Guido van Rossum

Background:
ABC, Algol-68, Icon, Modula-3

February 1991 – 0.9.0
January 1994 – 1.0
October 2000 – 2.0
July 2010 – 2.7 (latest 2.7.18)
December 2008 – 3.0
December 23, 2016 – 3.6
July 17, 2017 - 3.6.2
July 20, 2020 - 3.8.5

Application Domains

- Web and Internet Development
- Scientific and Numeric
- Database Access
- Education
- Desktop GUIs
- Software Development
- Busyness Applications
- Network Programming
- Data Science
- Machine Learning
- Other

Language Rank

IEEE SPECTRUM

Top Programming Languages 2020

Rank	Language	Type	Score
1	Python		100.0
2	Java		95.3
3	C		94.6
4	C++		87.0
5	JavaScript		79.5
6	R		78.6
7	Arduino		73.2
8	Go		73.1
9	Swift		70.5
10	Matlab		68.4

Language Rank

PYPL PopularitY of

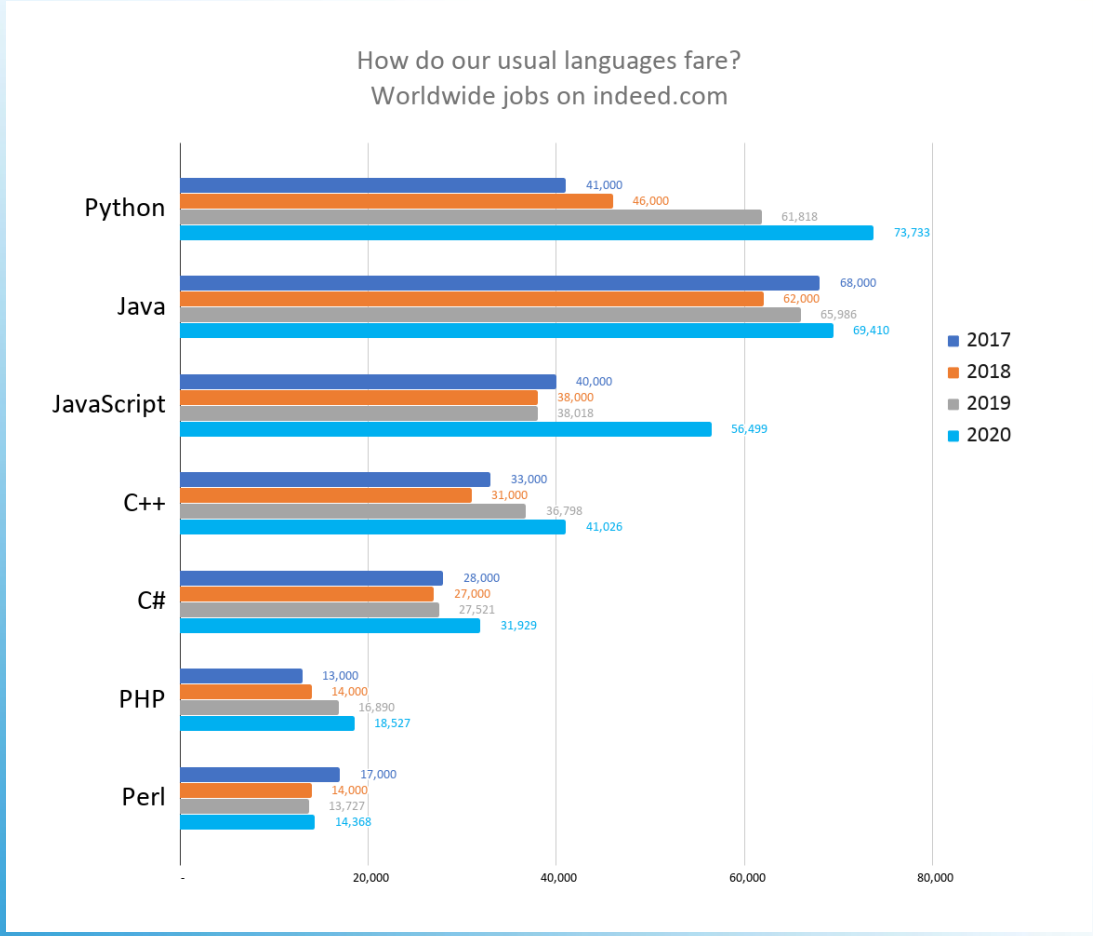
Programming Language

Worldwide, Sept 2020 compared to a year ago:

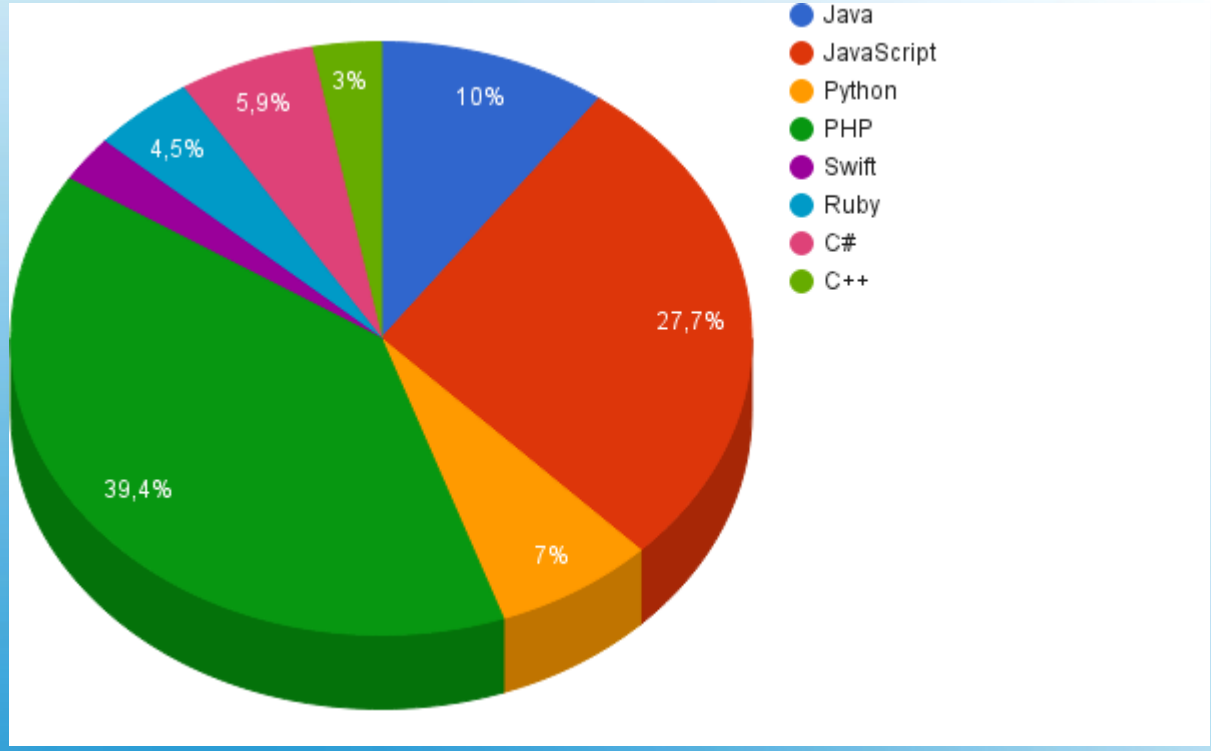
Rank	Change	Language	Share	Trend
1		Python	31.56 %	+2.9 %
2		Java	16.4 %	-3.1 %
3		Javascript	8.38 %	+0.3 %
4		C#	6.5 %	-0.8 %
5		PHP	5.85 %	-0.5 %
6		C/C++	5.8 %	+0.0 %
7		R	4.08 %	+0.3 %
8		Objective-C	2.79 %	+0.2 %
9		Swift	2.35 %	-0.1 %
10		TypeScript	1.92 %	+0.1 %
11		Matlab	1.65 %	-0.1 %
12		Kotlin	1.61 %	+0.1 %
13	↑↑	Go	1.44 %	+0.3 %

Language Rank

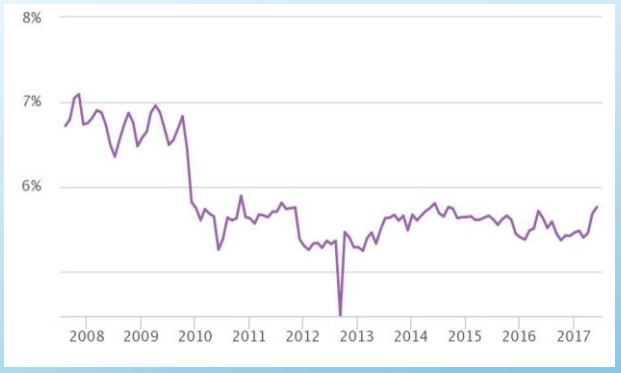
Python: The most versatile of the top programming languages of 2020



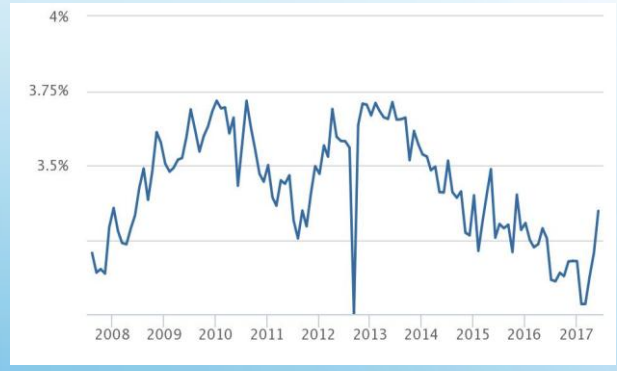
2016 Web Programming Languages



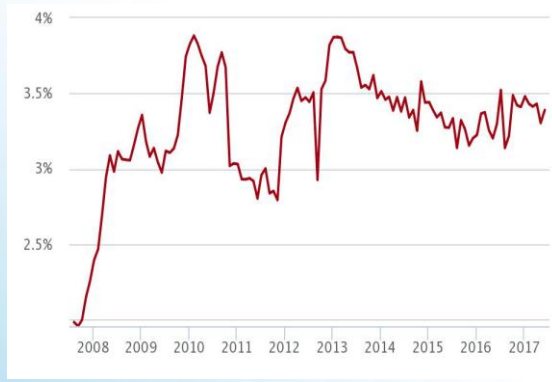
Dynamic (Data by OpenHub 2017)



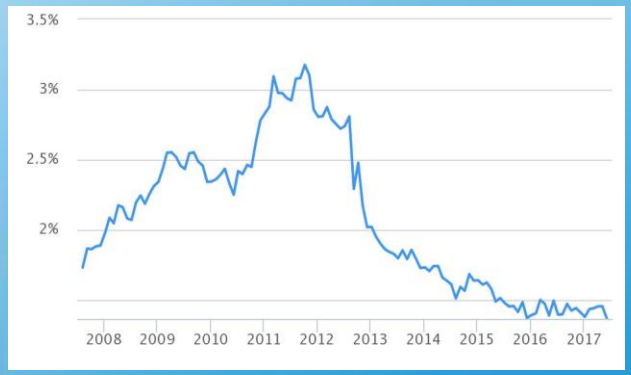
Java



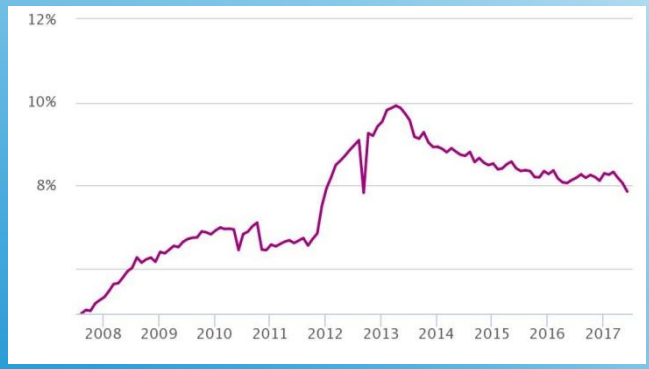
PHP



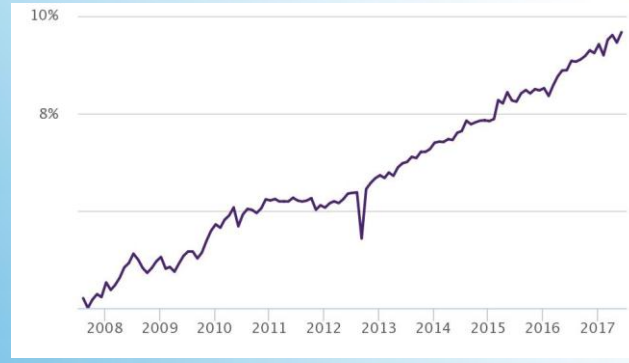
Ruby



C#

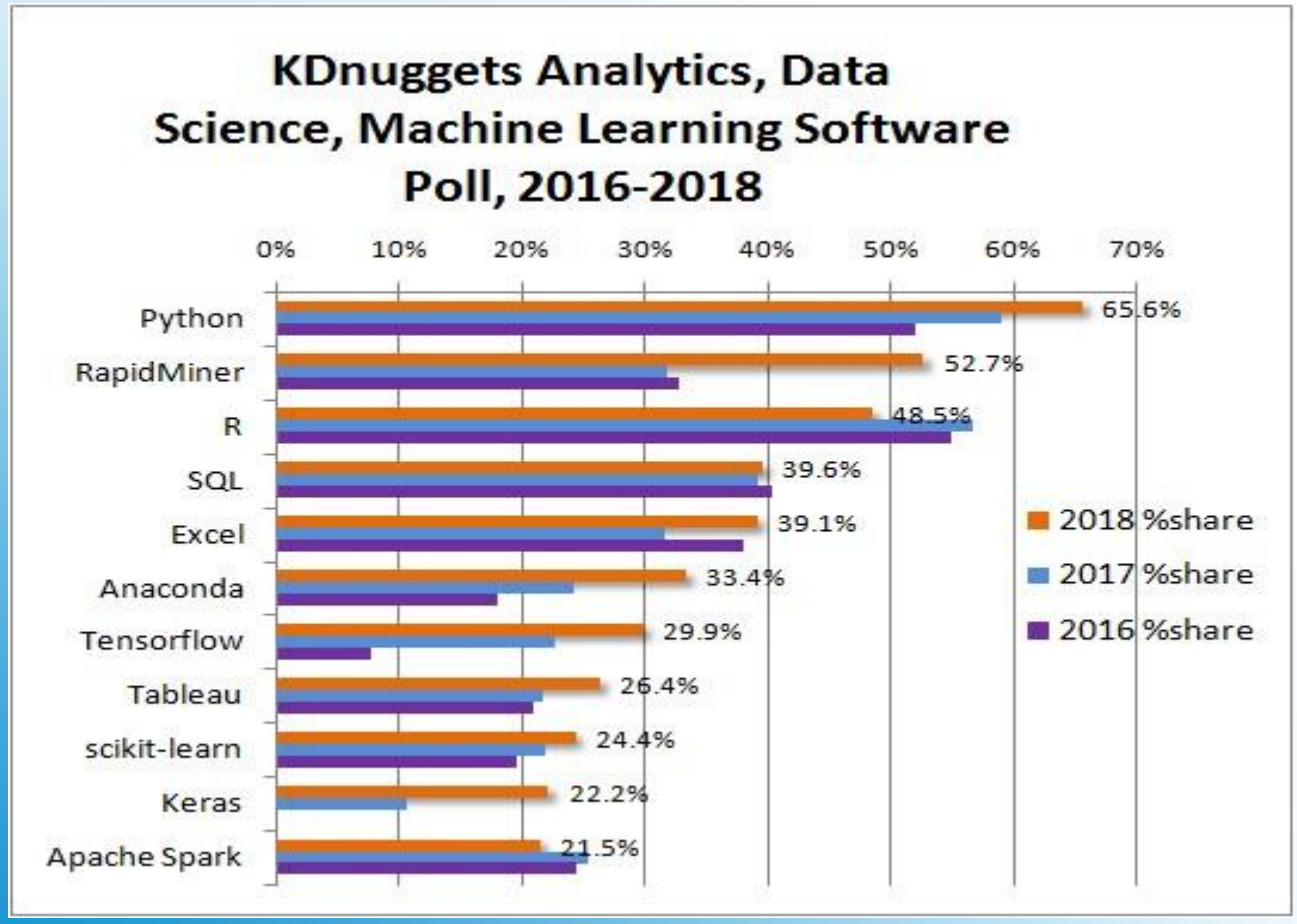


JavaScript

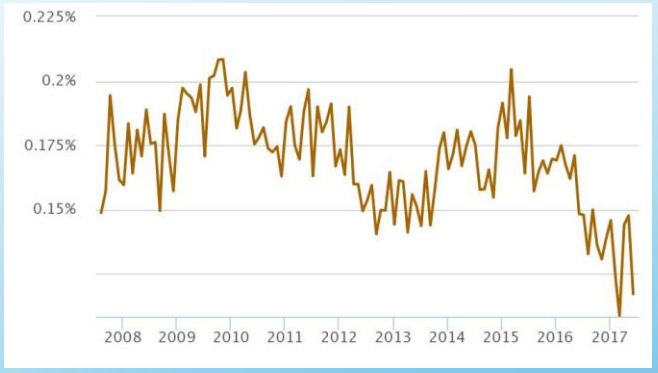


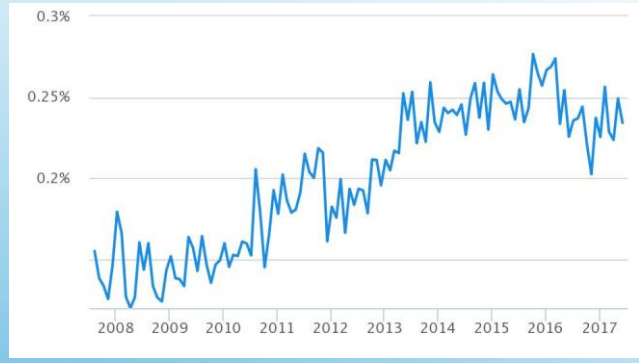
Python

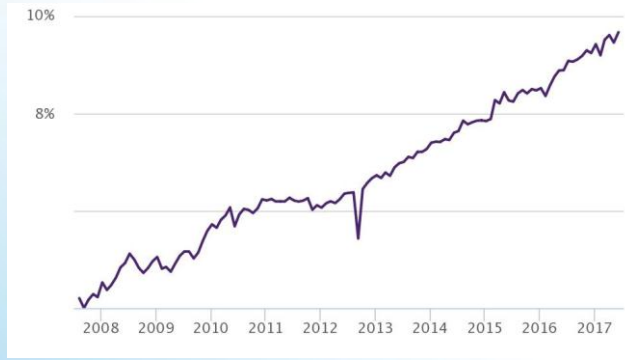
Data Science Languages Popularity



Dynamic (Data by OpenHub 2017)



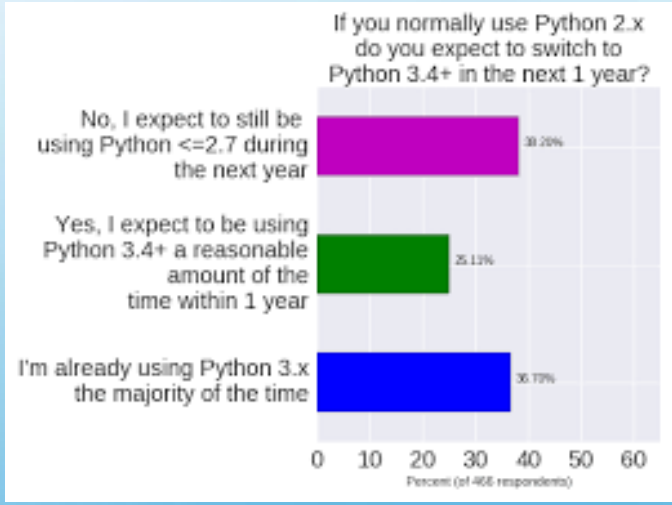


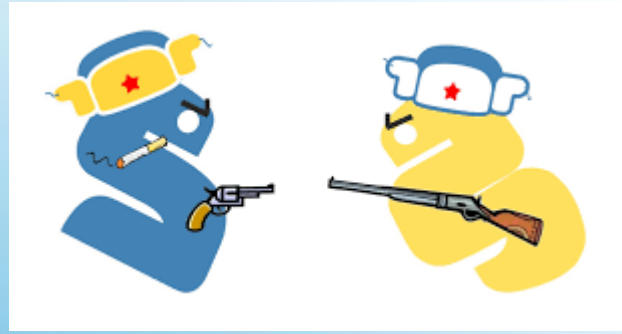


MATLAB **R** **Python**

https://www.openhub.net/languages?query=&sort=code

Python 2 vs 3





Python 2 support upto 2020 only !

Programming Paradigms

- Object – oriented
- Imperative
- Functional
- Procedural
- Reflective

Thank you for listening!

Feel free to contact me

kozlenkomykola@ukr.net

https://www.linkedin.com/in/mykola-kozlenko/