Python: The Big Picture

WHAT IS PYTHON?



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Course Outline



What is Python?

When and where is Python being used?

First steps with Python

Continuing your Python journey



Prerequisites

No Python experience necessary



Some development experience a plus, but not required













Target Audience

Software Developers

Software Testers

Software Managers













Thoughts? Comments? Questions?

Table of contents Description Transcript Exercise files **Discussion** Learning Check

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What Is Python?





High-level Programming Language



Dynamic

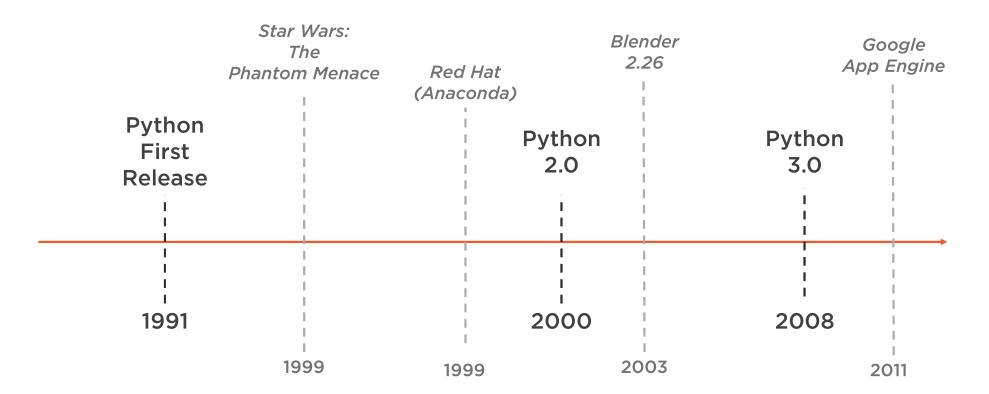








History

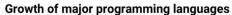


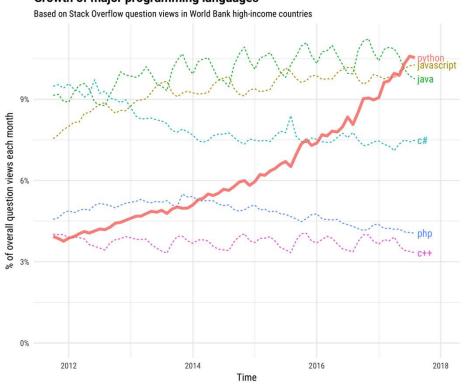


Why Should a Developer Care?



Growing in Popularity





Worldwide, Sept 2017 compared to a year ago:						
Rank	Change	Language	Share	Trend		
1		Java	22.4 %	-0.8 %		
2		Python	17.0 %	+4.0 %		
3		PHP	8.7 %	-1.0 %		
4		C#	8.1 %	-0.4 %		
5		Javascript	8.0 %	+0.6 %		
6		C++	6.8 %	-0.2 %		
7		С	6.1 %	-1.1 %		
8	^	R	3.7 %	+0.6 %		
9	V	Objective-C	3.5 %	-1.4 %		
10		Swift	2.9 %	-0.1 %		

Stack Overflow (http://bit.ly/2wkMATk)

PYPL (http://bit.ly/2eJ2rnC)



Growing in Popularity

Language Rank	Types	Spectrum Ranking
1. Python	₩ -	100.0
2. C	□ 🖵 🛢	99.7
3. Java		99.5
4. C++		97.1
5. C#		87.7
6. R	-	87.7
7. JavaScript		85.6
8. PHP		81.2
9. Go	● -	75.1
10. Swift	□ 모	73.7

Sep 2017	Sep 2016	Change	Programming Language	Ratings
1	1		Java	12.687%
2	2		С	7.382%
3	3		C++	5.565%
4	4		C#	4.779%
5	5		Python	2.983%
6	7	^	PHP	2.210%
7	6	~	JavaScript	2.017%
8	9	^	Visual Basic .NET	1.982%
9	10	^	Perl	1.952%
10	12	^	Ruby	1.933%

IEEE Spectrum (http://bit.ly/2wWgUaB)

TIOBE (http://bit.ly/2mPBq5f)



The Python Philosophy

Beautiful is better than ugly

Explicit is better than implicit

Simple is better than complex

Complex is better than complicated

Readability counts



What Makes Python Different?



What Makes Python Different?









A Great Time to Start!



Summary



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When and where is Python being used?

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