

Java and Object-oriented Design

Wuhui Chen

One of the most popular Language

TIOBE 2016

Rankings:

1. Java
2. C
3. C++
4. C#
5. Python
6. JavaScript
7. PHP
8. Visual Basic .NET
9. Perl
10. Delphi
11. Ruby
12. Swift
13. Objective-C
14. Matlab
15. Groovy
16. Visual Basic
17. R

IEEE Spectrum 2016

Rankings:

1. C
2. Java
3. Python
4. C++
5. R
6. C#
7. PHP
8. JavaScript
9. Ruby
10. Go
11. Swift
12. Matlab
13. Scala
14. Perl
15. Visual Basic
16. Objective-C

PYPL 2016

Rankings:

1. Java
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4. C#
5. JavaScript
6. C++
7. C
8. Objective-C
9. R
10. Swift
11. Matlab
12. Ruby
13. VBA
14. Visual Basic
15. Scala

Eng Lang. Index 2016

Rankings:

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CodeEval 2016

Rankings:

1. Python
2. Java
3. C++
4. C#
5. C
6. JavaScript
7. Ruby
8. PHP
9. Haskell
10. Go
11. Scala
12. Perl
13. Objective-C
14. R

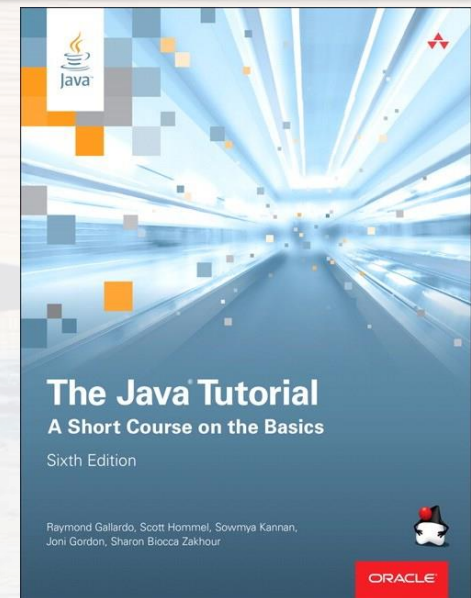
One of the most popular Language

Latest Data (July, 2018) :

TIOBE Index						PYPL Index (Worldwide)				
Jul 2018 ▲	Jul 2017 ◆	Change ◆	Programming language ◆	Ratings ◆	Change ◆	Jul 2018 ▲	Change ◆	Programming language ◆	Share ◆	Trends ◆
1	1		Java	16.139 %	+2.37 %	1	↑	Python	23.59 %	+5.5 %
2	2		C	14.662 %	+7.34 %	2	↓	Java	22.4 %	-0.5 %
3	3		C++	7.615 %	+2.04 %	3	↑↑	Javascript	8.49 %	+0.2 %
4	4		Python	6.361 %	+2.82 %	4	↓	PHP	7.93 %	-1.5 %
5	7	↑	Visual Basic .NET	4.247 %	+1.20 %	5	↓	C#	7.84 %	-0.5 %
6	5	↓	C#	3.795 %	+0.28 %	6		C/C++	6.28 %	-0.8 %
7	6	↓	PHP	2.832 %	-0.26 %	7	↑	R	4.18 %	+0.0 %
8	8		JavaScript	2.831 %	+0.22 %	8	↓	Objective-C	3.4 %	-1.0 %
9	-	↑↑	SQL	2.334 %	+2.33 %	9		Swift	2.65 %	-0.9 %
10	18	↑↑	Objective-C	1.453 %	-0.44 %	10		Matlab	2.25 %	-0.3 %
11	12	↑	Swift	1.412 %	-0.84 %	11		Ruby	1.59 %	-0.5 %
12	13	↑	Ruby	1.203 %	-1.05 %	12	↑↑↑	TypeScript	1.58 %	+0.3 %
13	14	↑	Assembly language	1.154 %	-1.09 %	13	↓	VBA	1.42 %	-0.1 %
14	15	↑	R	1.150 %	-0.95 %	14	↓	Visual Basic	1.2 %	-0.2 %
15	17	↑	MATLAB	1.130 %	-0.88 %	15	↓	Scala	1.2 %	-0.1 %
16	9	↓↓	Delphi/Object Pascal	1.109 %	-1.38 %	16	↑↑↑	Kotlin	0.97 %	+0.5 %
17	11	↓↓	Perl	1.101 %	-1.23 %	17		Go	0.93 %	+0.3 %
18	10	↓↓	Go	0.969 %	-1.39 %	18	↓↓	Perl	0.78 %	-0.1 %
19	16	↓	Visual Basic	0.885 %	-1.21 %	19	↓	Lua	0.42 %	-0.1 %
20	20		PL/SQL	0.704 %	-0.84 %	20	↑↑	Rust	0.36 %	+0.0 %
						21		Haskell	0.3 %	-0.1 %
						22	↓↓	Delphi	0.25 %	-0.1 %

Literature

- ◆ **The Java Tutorial, 6th Edition, A Short Course on the Basics** by Raymond Gallardo, Scott Hommel, Sowmya Kannan, Joni Gordon, S. Zakhour, Sun Microsystems, 2014 (English version), 2016 (Chinese Version).



Grading Policy

◆ Detailed grading policy

- Examination: 50%
 - ✓ Report: 10%
 - ✓ Project: 40%
- Exercises 40%
- Attendance: 10%

Course Details

- ◆ Course homepage
<http://inpluslab.com/java2018/>
- ◆ TA: 蔡婷, 刘百川
- ◆ Office hours
 - ◆ Monday 3:00PM – 5:30PM, JIE 406
- ◆ Email: chenwuh@mail.sysu.edu.cn