

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

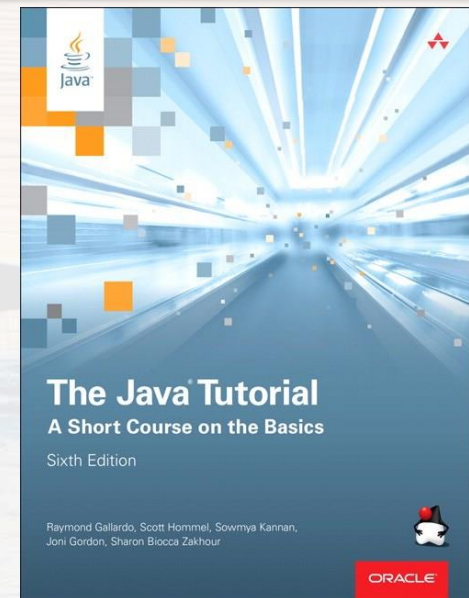
One of the most popular Language

Latest Data (May, 2019) :

TIOBE Index						PYPL Index (Worldwide)				
May 2019 ▲	May 2018 ▲	Change ▲	Programming language ▲	Ratings ▲	Change ▲	May 2019 ▲	Change ▲	Programming language ▲	Share ▲	Trends ▲
1	1		Java	16.005%	-0.38%	1		Python	27.34 %	+4.5 %
2	2		C	14.243%	+0.24%	2		Java	20.25 %	-2.1 %
3	3		C++	8.095%	+0.43%	3		Javascript	8.51 %	-0.0 %
4	4		Python	7.830%	+2.64%	4	↑	C#	7.38 %	-0.5 %
6	5	↓	C#	3.984%	-0.42%	5	↓	PHP	7.34 %	-0.9 %
5	6	↑	Visual Basic .NET	5.193%	+1.07%	6		C/C++	6.01 %	-0.3 %
9	7	↓	PHP	2.489%	-0.83%	7		R	4.16 %	-0.1 %
7	8	↑	JavaScript	2.690%	-0.23%	8		Objective-C	2.91 %	-0.6 %
8	9	↑	SQL	2.555%	+0.57%	9		Swift	2.5 %	-0.3 %
15	10	↓↓	Ruby	1.343%	+0.16%	10		Matlab	2.03 %	-0.3 %
12	12		Delphi/Object Pascal	1.406%	+0.39%	11	↑	TypeScript	1.61 %	+0.1 %
						12	↓	Ruby	1.4 %	-0.3 %
10	13	↑	Assembly language	1.816%	+0.82%	13		VBA	1.38 %	-0.0 %
19	14	↓↓	Go	1.114%	+0.14%	14	↑↑↑	Go	1.22 %	+0.4 %
11	15	↑↑	Objective-C	1.626%	+0.69%	15	↑	Kotlin	1.2 %	+0.3 %
14	16	↑	MATLAB	1.366%	+0.44%	16	↓	Scala	1.17 %	-0.0 %
16	17	↑	Visual Basic	1.317%	+0.40%	17	↓↓↓	Visual Basic	1.09 %	-0.2 %
13	18	↑↑	Perl	1.394%	+0.48%	18	↑↑	Rust	0.63 %	+0.3 %
18	19	↑	Swift	1.150%	+0.24%	19	↓	Perl	0.61 %	-0.1 %
20	22	↑	PL/SQL	1.017%	+0.12%	20	↓	Lua	0.4 %	+0.0 %
17	91	↑↑	Groovy	1.173%	+1.06%	21		Haskell	0.32 %	+0.0 %
						22	↑	Julia	0.27 %	+0.1 %
						23	↓	Delphi	0.26 %	-0.0 %

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

- Exercises 40% (Deadline: 12:00PM, Sunday, The exercise week)
- Final Project: 50%
 - ✓ Project
 - ✓ Report
- Attendance: 10%
 - ✓ Mid-term Report
 - ✓ Quiz

Course Details

- ◆ Course homepage
<http://inpluslab.com/java2019/>
- ◆ Join QQ group
- ◆ TA: 林晖 (18059825857@163.com)
陈羽飞 (chenyf75@qq.com)
- ◆ Office hours
 - ◆ Monday 3:00PM – 5:30PM, JIE 406
- ◆ Email: chenwuh@mail.sysu.edu.cn