

15CSE102

Computer Programming

Course

Administrivia

Theory

Evaluation Pattern

First Assessment:	15 marks
Second Assessment	15 marks
Continuous Assessment	20 marks (3 quizzes + 3 tutorials)
Internal Assessment	50 marks
End Semester	50 marks
Total	100 marks

15CSE180

(15CSE180 Computer Programming Lab) Evaluation Pattern

Continuous Assessment	80 Marks
Evaluation Lab (3 Nos)	- 60 Marks
+ 1 Project Work	
P Test 1	- 10 Marks
P Test 2	- 10 Marks
End Semester	20 Marks
Total	100 Marks

TEXT BOOK:

1. Behrouz A. Forouzan and Richard F. Gilberg, “Computer Science: A Structured Programming Approach Using C”, Third Edition, Cengage Learning, 2006.

REFERENCES:

1. Brian W. Kernighan and Dennis M. Ritchie, “The C Programming Language”, Second Edition, Prentice Hall, 1988.
2. Eric Roberts, “The Art and science of C”, Addison Wesley Publishing House, 1995.
3. Jeri R Hanly and Elliot B Koffman, “Problem solving and program design in C”, Fifth Edition, Pearson Education of India, 2008.

Syllabi, Course/Lab Plans
will be uploaded in
AUMS/Intranet

Tools of the Trade

But if you prefer an IDE



Code::Blocks

The open source, cross-platform IDE

<http://www.codeblocks.org>

BYOD

Strongly encouraged & recommended



15CSE102

Computer Programming

Introduction

C PROGRAMMING LANGUAGE CREATOR

DENNIS RITCHIE
1941 - 2011



Why C?

OS Kernels
Written in C



Why C?

Databases Powered by C



ORACLE

MySQL



toptal

Credits: www.toptal.com

Why C?

**Many Embedded Systems
Run on C**

toptal



Credits: www.toptal.com

C – Behind Many Things



Credits: www.toptal.com

Why C?

Procedural programming paradigm

Close to hardware

Portability and efficiency

Memory manipulation; Small memory footprint

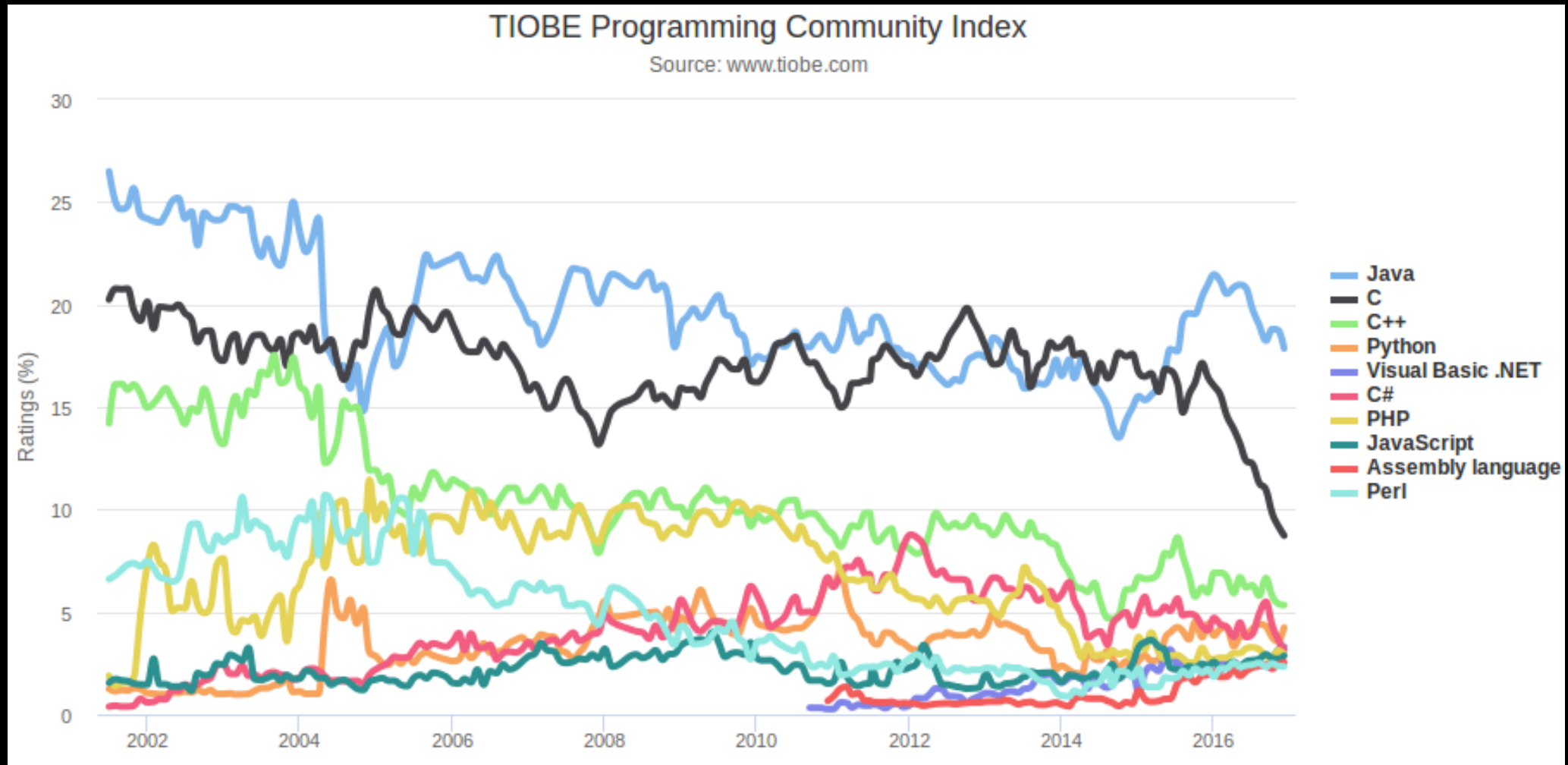
TIOBE Index

Dec 2016	Dec 2015	Change	Programming Language	Ratings	Change
1	1		Java	17.856%	-3.12%
2	2		C	8.726%	-7.73%
3	3		C++	5.335%	-0.61%
4	4		Python	4.239%	-0.19%
5	7	▲	Visual Basic .NET	3.302%	+0.91%
6	5	▼	C#	3.171%	-0.94%
7	6	▼	PHP	2.919%	+0.13%
8	8		JavaScript	2.862%	+0.50%
9	11	▲	Assembly language	2.539%	+0.61%
10	9	▼	Perl	2.338%	+0.13%

TIOBE Index

Programming Language	2016	2011	2006	2001	1996	1991	1986
Java	1	1	1	2	14	-	-
C	2	2	2	1	1	1	1
C++	3	3	3	3	2	2	5
C#	4	4	6	9	-	-	-
Python	5	7	7	18	26	-	-
PHP	6	5	4	8	-	-	-
JavaScript	7	9	9	7	19	-	-
Visual Basic .NET	8	25	-	-	-	-	-
Perl	9	8	5	4	3	-	-
Assembly language	10	-	-	-	-	-	-

TIOBE Index



15CSE102

Computer Programming

(Next Topic)

Hello World!!