**Other C++ resources**

[http://www.stroustrup.com/C++.html](http://www.stroustrup.com/C%2B%2B.html)

C++ website of Bjarn Stroustrup(developer of C++)

# <http://isocpp.github.io/CppCoreGuidelines/CppCoreGuidelines>

# C++ Core Guidelines

April 22, 2017

Editors:

* [Bjarne Stroustrup](http://www.stroustrup.com)
* [Herb Sutter](http://herbsutter.com/)

David Kieras at University of Michigan

EECS 381 - Object-Oriented and Advanced Programming - Winter 2017- <http://www.umich.edu/~eecs381/>

Lots of good material here. Some items I have posted directly for your reference.

[C++ Tutorial](http://www.cplusplus.com/doc/tutorial/%22%20%5Ct%20%22_blank) (from [cplusplus.com](http://cplusplus.com" \t "_blank)) is very good start for beginner with no prior background. It starts from the basics up to the new features in c++11.

<https://en.wikiversity.org/wiki/C%2B%2B/Introduction>

Tutorial

<https://github.com/fffaraz/awesome-cpp#integrated-development-environment>

References for everything C++

Standard Template Library

<https://www.topcoder.com/community/data-science/data-science-tutorials/power-up-c-with-the-standard-template-library-part-1/>

STL

Video tutorials

<https://thenewboston.com/videos.php?cat=16>

Video C++ tutorials (Bucky’s) \*

<http://www.newthinktank.com/2014/11/c-programming-tutorial/>

A hour and 10 minute video with code examples\*

Course online:

<https://www.sololearn.com/Course/CPlusPlus/>

Online class

Tutorial including some use of GUI

<https://www.udemy.com/free-learn-c-tutorial-beginners/>

C++ Tutorial for Complete Beginners – Using SDL for windows

Git – version control system

Tutorial on Git

<https://www.codecademy.com/learn/learn-git>

Overview of the Git system

<https://git-scm.com/book/en/v2/Getting-Started-Git-Basics>

MIT short course on C and C++

<https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-096-introduction-to-c-january-iap-2011/>

Beginner guide to C++ - mainly covers structured programming

<http://www.penguinprogrammer.co.uk/c-beginners-tutorial/introduction/>

Tutorial - shortish

[http://www.cprogramming.com/tutorial/c++-tutorial.html](http://www.cprogramming.com/tutorial/c%2B%2B-tutorial.html)

Online books:

<http://www.bordoon.com/cplusplus/book_wrapper.html>

Developer level Tips and Tricks of the C++ Professionals - Bordoon

<https://rooksguide.files.wordpress.com/2013/12/rooks-guide-isbn-version.pdf>

Online book – basic intro to C++ with review of variables, types… (things you should have learned in 1320)

Books that would be purchases

# Effective Modern C++: 42 Specific Ways to Improve Your Use of C++11 and C++14 (Scott Myers)

**Programming: Principles and Practice Using C++ (2nd Edition) 2nd Edition**

by [Bjarne Stroustrup](https://www.amazon.com/Bjarne-Stroustrup/e/B000AQ349S/ref%3Ddp_byline_cont_book_1) (Author)

**C++ Coding Standards: 101 Rules, Guidelines, and Best Practices 1st Edition**

by [Herb Sutter](https://www.amazon.com/Herb-Sutter/e/B001ILHLCK/ref%3Ddp_byline_cont_book_1) (Author), [Andrei Alexandrescu](https://www.amazon.com/Andrei-Alexandrescu/e/B001ILKI7K/ref%3Ddp_byline_cont_book_2) (Author)

**Modern C++ Design: Generic Programming and Design Patterns Applied 1st Edition**

by [Andrei Alexandrescu](https://www.amazon.com/Andrei-Alexandrescu/e/B001ILKI7K/ref%3Ddp_byline_cont_book_1) (Author)

 *Design Patterns: Elements of Reusable Object-Oriented Software* by [ErichGamma](http://wiki.c2.com/?ErichGamma), [RichardHelm](http://wiki.c2.com/?RichardHelm), [RalphJohnson](http://wiki.c2.com/?RalphJohnson), and [JohnVlissides](http://wiki.c2.com/?JohnVlissides) (the [GangOfFour](http://wiki.c2.com/?GangOfFour))

 ISBN 978-0201633610, ISBN 0-201-63361-2

 Publisher: [AddisonWesley](http://wiki.c2.com/?AddisonWesley) Professional (November 10, 1994)

Presentation Materials: Overview of the New C++ (C++11/14)

by Scott Meyers

**Exceptional C++: 47 Engineering Puzzles, Programming Problems, and Solutions**

by [Herb Sutter](https://www.amazon.com/Herb-Sutter/e/B001ILHLCK/ref%3Ddp_byline_cont_book_1) (Author)

C++ Primer Plus (6th Edition) (Developer's Library) 6th Edition

by Stephen Prata (Author)

<http://en.cppreference.com/w/>

cppreference.com; C++ reference for

C++98, C++03, C++11, C++14, C++17

Lynda.com (UTA staff has access to this and there is C++ programming on here)

**Stay Competitive Using Design Thinking**