

C++

The Standard

- ISO/IEC: [Working Draft, Standard for Programming Language C++ \(PDF, 2011\)](#)
- cppreference.com: [C++ reference](#)
- cplusplus.com: [Standard C++ Library reference](#)

Guidelines

- Bjarne Stroustrup and Herb Sutter: [C++ Core Guidelines](#)
- Rainer Grimm: [Modernes C++](#)
- CERT: [SEI CERT C++ Coding Standard](#)
- [Google C++ Style Guide](#)

(Common) Rules

- Rajeev Singh: [8 Software engineering principles to live by](#)
- Marius Bancila: [Ten C++11 Features Every C++ Developer Should Use](#)
- Vatroslav Bodrozic: [Top 10 Most Common C++ Mistakes That Developers Make](#)
- Deb Haldar: [Top 25 C++ API design mistakes and how to avoid them](#)
- Deb Haldar: [Top 15 C++ Exception handling mistakes and how to avoid them](#)
- Deb Haldar: [Top 20 C++ multithreading mistakes and how to avoid them](#)

Special Topics

- [Singleton](#)

Links

Initialization

- Arthur O'Dwyer: [The Nightmare of Initialization in C++](#)

Serialization

- CSDN Blog: [A beginner's guide to writing a custom stream buffer \(std::streambuf\)](#)
- Frank B. Brokken: [C++ Annotations - 25.1: Using file descriptors with `streambuf` classes](#)
- Stack Overflow: [Customized streambuffer for C++ istream](#)
- Stack Overflow: [What is the difference between flush\(\) and sync\(\) in regard to fstream buffers?](#)
- cppreference.com: [std::basic_streambuf](#)

Exceptions

- Andrzej Krzemiński: [Using noexcept](#)

Smart Pointers

- David Kieras: [Using C++11's Smart Pointers](#) (PDF, 2016)
- Soroush Khajepor: [What is a C++ unique pointer and how is it used?](#) (smart pointers part I)
- Soroush Khajepor: [What is a C++ shared pointer and how is it used?](#) (smart pointers part II)
- Soroush Khajepor: [What is a C++ weak pointer and where is it used?](#) (smart pointers part III)
- Brian Overland: [Be Smart About C++11 Smart Pointers](#)
- Bartłomiej Filipek: [Custom Deleters for C++ Smart Pointers](#)
- Peter Dimov: [Smart Pointer Programming Techniques](#)
- Phillip Johnston: [std::shared_ptr and shared_from_this](#)
- Stack Overflow: [What is the cyclic dependency issue with shared_ptr?](#)

Move Semantics

- Alex Allain: [Move semantics and rvalue references in C++11](#)
- Eli Bendersky: [Understanding lvalues and rvalues in C and C++](#)
- Thomas Becker: [C++ Rvalue References Explained](#)
- Stack Overflow: [What is move semantics?](#)
- Stack Overflow: [How do I pass a unique_ptr argument to a constructor or a function?](#)
- David Abrahams: [Want Speed? Pass by Value.](#)

Functions, Functors & Lambdas

- Petr Zemek: [Pros and Cons of Alternative Function Syntax in C++](#)
- Jonathan Boccara: [STL Function objects: Stateless is Stressless](#)
- Davis Vigneault: [Callbacks in C++11](#)
- Alex Allain: [Programs as Data: Function Pointers^{1\)}](#)
- Alex Allain: [Functors: Function Objects in C++](#)
- Alex Allain: [Lambda Functions in C++11 - the Definitive Guide](#)
- Sandor Dargo: [Lambda Expressions in C++](#)
- Hitesh Kumar: [Capture *this in lambda expression: Timeline of change](#)

Threads & Concurrency

- thisPointer: [C++11 Multi-threading Tutorial](#)
- Dept. Computer Science UChicago: [Concurrency in C++11](#)
- Stack Overflow: [What exactly is std::atomic?](#)
- Stack Overflow: [How does scope-locking work?](#)
- Stack Overflow: [Why conditional_variable::notify_all may not wake up any thread?](#)
- Stack Overflow: [Why 'wait with predicate' solves the 'lost wakeup' for condition variable?](#)

Double-Checked Locking Pattern (DCLP)

- David Bacon et al.: [The "Double-Checked Locking is Broken" Declaration](#)
- Scott Meyers and Andrei Alexandrescu: [C++ and the Perils of Double-Checked Locking](#) (PDF, 2004)
- Hongbo Zhang: [Double-Checked Locking is Broken](#)
- Jeff Preshing: [Double-Checked Locking is Fixed In C++11](#)

1)

Old style "function pointers" based on polymorphism.

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Last update: **2023/10/13 07:18**

