
What's New in C++11 / C++14?

Material based on N4296

The logo for AKDAB, featuring a stylized blue 'A' with a lightning bolt and wavy lines, followed by the letters 'K', 'D', 'A', and 'B' in a blue, sans-serif font.

Introduction

- C++11 Intro
 - MSVC Support

Important C++11 Language Changes

- C++98 Exceptions Refresher
- noexcept
- Rvalue References
- Miscellanea
- Explicit Virtual Overrides
- nullptr
- Type Inference
- C++98 Containers and Algorithms Refresher
- Range-Based for Loop
- Lambdas
- Defaulted & Deleted Members
- Uniform Initialization
- Generalized Constant Expressions
- Constructors
- Strongly-Typed Enums

C++11 Library Additions

- Multithreading
 - Basics
 - Asynchronous Execution
 - Utilities
 - Atomics
- Language Support & Diagnostics Libraries
- General Utilities Libraries
- Functional Programming
- Smart Pointers
- Containers & Algorithms

C++11 Template Changes

- Templates
- Variadic Templates
- Perfect Forwarding

Optional Topics

- Alignment Control
- The C++11 Memory Model
- Special User-Defined Types
- Inline Namespaces
- User-Defined Literals
- Random Numbers
- Regular Expressions