
Introduction to Modern C++

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The logo for KDAB, featuring a stylized white lightning bolt icon to the left of the text 'KDAB' in a white, sans-serif font, all contained within a blue rectangular background with a white diagonal cutout at the bottom left corner.

KDAB

The Qt, OpenGL and C++ Experts

Introduction to C++

- A whirlwind tour of C++
- What is C++?
 - Hello, world!

C++ Fundamentals

- Control flow
 - Control flow
 - Selection statements
 - Iteration statements
 - Jump statements
- Data types
 - Fundamental types
 - Derived types
 - User declared types
- Functions
 - Functions in C++
 - Function overloading
- Objects
 - Object Declarations
 - Object Lifetime

User-defined Types

- Classes
 - Introduction to Classes
 - Construction, destruction and assignment
 - Static members
 - Inheritance and runtime polymorphism
- Operator Overloading
- Templates
 - Introduction
 - Templates

C++ Standard Library

- Introduction
- Containers
 - Introduction
 - `std::vector`
 - `std::map`
- Iterators
- Algorithms
- Smart Pointers

Optional topics

- Exceptions
- Lambdas
- Namespaces