Introduction to Modern C++

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KDAB

The Qt, OpenGL and C++ Experts
A whirlwind tour of C++

What is C++?
- Hello, world!

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

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

Operator Overloading

Templates
- Introduction
- Templates

Containers
- Introduction
- std::vector
- std::map

Iterators

Algorithms

Smart Pointers
Optional topics

- Exceptions
- Lambdas
- Namespaces