Sela.

CppNext

C++ Next







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CppNext - Version: 1



Description:

One day overview of new features of latest C++ standards. We will review the major features introduced in C++20, focus on C++23 additions to the language and standard library and give a glimpse of things to expect in C++26.

Intended audience:

This course is intended for developers, team leaders and R&D Managers with hands-on experience programming with modern C++.

Prerequisites:

Experience in programming with modern C++ is a must.

Experience with C++17 language and standard library features.

Objectives:

Become acquainted with cardinal features in latest C++ standards with major impact on the way we write code and organize software.

Topics:

C++20 Refresher on major features



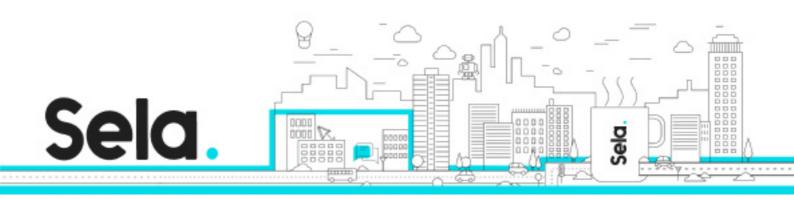
- Ranges and views
- Concepts
- Operator <=>

C++23 features

- td and std.compat modules
- Monadic enhancements to std::optional
- std::expected
- flat_map and flat_set
- Fold expressions for ranges
- safe formatted output
- std::generator and coroutines
- Stacktrace
- Explicit object parameter deducing this
- if consteval
- Multidimensional subscript operator
- Static operator[] and static operator()
- Decay copy with auto(x)
- [[assume(x)]]

C++26 overview: what to expect

- Pack indexing
- Place holder variables with no name
- Variadic friends
- Structured binding as a condition
- Make math and complex functions constexpr
- Saturation arithmetic operations
- Debugging support



- User friendly assert macro
- std::execution & sender-receiver model of execution control