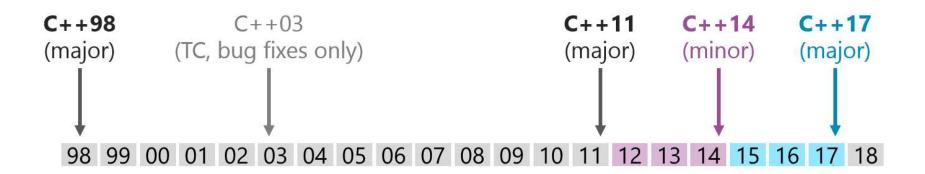


Modern C++

202x

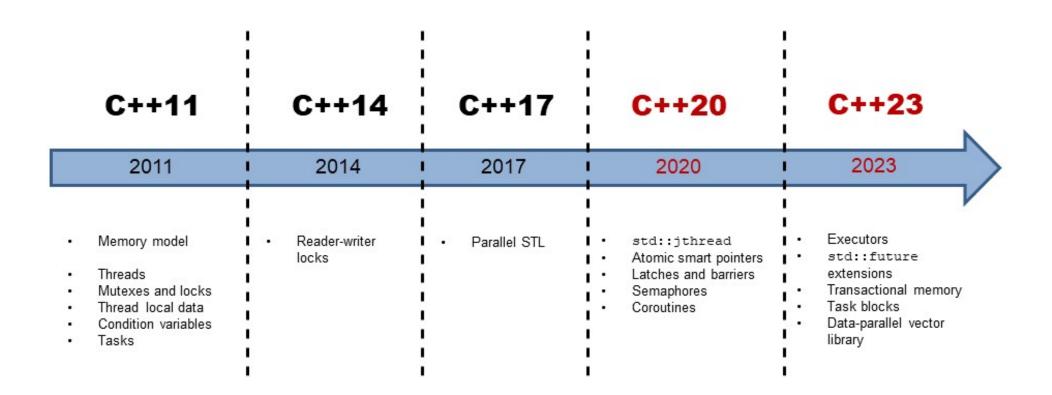


Modern C++





Modern C++





Prerequisites

To fully understand the course, it is required:

Basic knowledge of standard C++98





The program

- 1 Presentation of the course, tools
- 2 Prerequisites: refresh of C++98
- 3 The basics: nullptr, auto, type aliases, initializer list, uniform initialization
- 4 The basics: range-based loops, constexpr, scoped enums, override and final.
- 5 Advanced topics: Lambda functions, STL containers, algorithms
- 6 Advanced topics: Move semantics, Smart pointers





The program

- 7 Advanced topics: Multithread
- 8 Advanced topics: New features in C++20
- 9 Hands on code
- 10 Correction and discussion of the final assignment





The final assignment

- You will fork a GitHub repository with some code to develop / questions to answer / report to write / ...
- You will develop the assignment and push on your fork.
- We shall review the assignment and discuss in the last lesson.