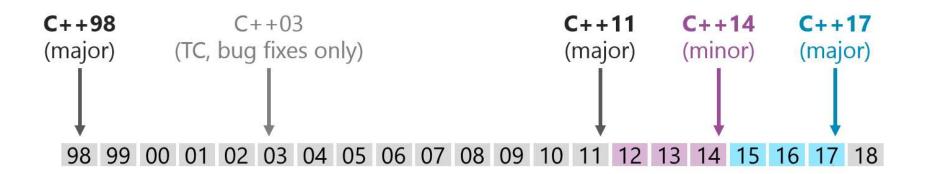


### Modern C++

2023

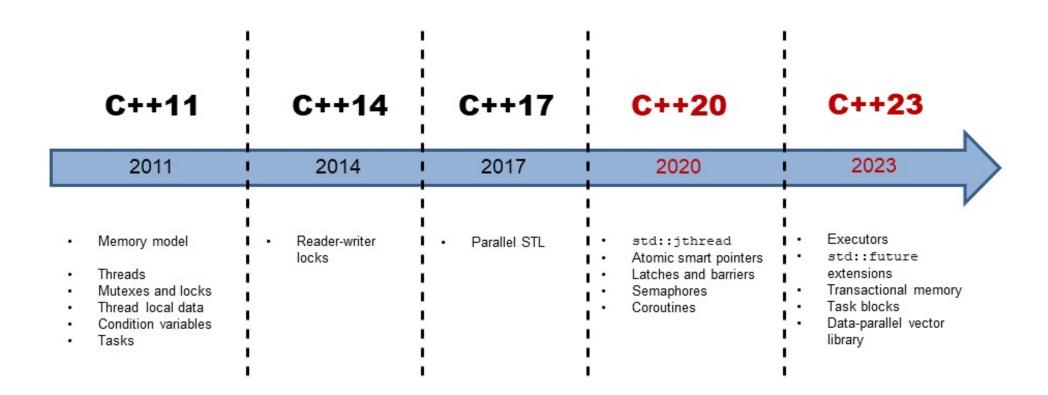


### Modern C++





#### 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

30 May 2023, [14:00, 17:00]

2 Prerequisites: refresh of C++98

31 May 2023, [14:00, 17:00]

- 3 The basics: nullptr, auto, type aliases, initializer list, uniform initialization 1 June, [14:00, 17:00]
- 4 The basics: range-based loops, constexpr, scoped enums, override and final. 13 June, [14:00, 17:00]
- 5 Advanced topics: Lambda functions, STL containers, algorithms 20 June, [14:00, 17:00]
- 6 Advanced topics: Move semantics, Smart pointers 21 June, [14:00, 17:00]





# The program

7 Advanced topics: Multithread

22 June, [14:00, 17:00]

8 Advanced topics: New features in C++20

26 June, [14:00, 17:00]

9 Hands on code

27 June, [14:00, 17:00]

10 Correction and discussion of the final assignment

28 June, [14:00, 17:00]





# The final assignment

- In mid June 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 in the last lesson.