Recommended Resources: C++

This page was created as a source of inspiration – for anyone interested in modern C++ and looking to broaden or deepen their understanding. You won't find a list of „required reading" here to qualify for working with us. Quite the opposite: our goal is to share the materials and books that genuinely helped someone on our team grow, inspired them, or simply brought them joy.

The selection was prepared by Petr Filipský, team lead of our C++ group. It includes both survey-style books for quick orientation and more theoretical or specialized titles – covering topics like performance tuning, template metaprogramming, or parallelism.

In addition to books, we also recommend conferences and websites we actively follow. If you enjoy C++ and want to write fast, efficient, and well-designed code, you might just find something that sparks your curiosity.

What Does Petr Recommend?

Petr Filipský
C++ Developer, Team Leader

If you're looking to gain a broad overview, a great choice is A Tour of C++ (Third Edition) – written by the language's creator himself. The third edition is updated for C++20 and includes some C++23 features. (I'd say it's the C++ counterpart to JavaScript: The Good Parts by Crockford.)

Here are a few books that I've personally found valuable in the C++ space. They offer concrete tips on various aspects of the language. I really appreciate this practical style of learning:

- Effective Modern C++ by Scott Meyers (the older Effective C++, More Effective C++, and Effective STL, are still good, though somewhat dated.)
- Exceptional C++ and More Exceptional C++ by Herb Sutter (Also older, but still worth reading.)

- Modern C++ Design by Andrei Alexandrescu (a classic)
- C++ Coding Standards by Herba Sutter a Andrei Alexandrescu
- C++ Template Metaprogramming by Dave Abrahams a Aleksey Gurtovoy

As a more advanced and theoretical source of inspiration, I'd also highlight the dense but rewarding C++ Templates: The Complete Guide by Vandevoorde & Josuttis. I read the first edition years ago – it was tough going, but it taught me a lot. Nicolai Josuttis has also written C++17: The Complete Guide and C++20: The Complete Guide.

For a practical overview of concurrency and parallelism, I recommend Concurrency with Modern C++ by Rainer Grimm.

When it comes to performance tuning, a favorite of mine is Fedor G. Pikus and his book The Art of Writing Efficient Programs – highly relevant to the way we work at Qminers, where we deal with performance-critical code.

Stay Up to Date with Conferences and Online Resources

I also enjoy watching recordings from major C++ conferences – they're a great way to stay current:

- CppCon
- C++ on Sea
- C++ Now
- CppNorth
- Meeting C++
- code::dive
- ACCU
- NDC

For fresh insights, practical examples, and updates, check out:

- https://isocpp.org – the official C++ standardization and community site
- https://www.fluentcpp.com – blog on expressive and modern C++ techniques