Programming with C++

Books

Here are some references on C++:

- [The C++ Programming language, Fourth edition, Bjarne Stroustrup](#) is C++11/14 is the exhaustive bible/reference from [B. Stroutrup](#), the inventor of C++
- [Programming Principles and Practice Using C++ 2nd edition](#) (C++11/14) is a book for new comers to C++, from basics to more advanced topics it has nice explanations and comes with exercices ([solutions here](#))
- [A tour of C++](#) Pocket version presenting modern C++ by [B. Stroutrup](#).
- [Effective C++: 55 Specific Ways to Improve Your Programs and Designs](#) Nice book written by [Scott Meyers](#). Is pre-C++11 but still very useful.
- [Effective Modern C++ 42 ways to improve Your Use of C++11 and C++14](#), from [Scott Meyers](#), highly recommended to understand the new way of developing after C++11. Is for intermediate to advanced C++ programmers.
- [Scientific and Engineering C++: An Introduction with Advanced Techniques and Examples](#) Pre-C++11, very good to learn C++ (for C and Fortran programmers) and presents design techniques.

Videos

- [Modern C++](#)
- [Effective C++11/14](#) Nice video from Scott Meyers (authors of the book effective C++11/14). very good explanation of std::move/std::forward
- [Programming using C++ : Video Tutorials](#)

FAQ

[C++ FAQ](#)
[Don't be Afraid of Returning by Value, Know the Return Value Optimization](#)
[Copy elision](#)

Smart pointers

- [When should I use raw pointers over smart pointers?](#)
- [Which kind of pointer do I use and when?](#)