

Effective Modern C++: 42 Specific Ways to Improve Your Use of C++11 and C++14

By Scott Meyers

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Coming to grips with C++11 and C++14 is more than a matter of familiarizing yourself with the features they introduce (e.g., **auto** type declarations, move semantics, lambda expressions, and concurrency support). The challenge is learning to use those features *effectively*—so that your software is correct, efficient, maintainable, and portable. That's where this practical book comes in. It describes how to write truly great software using C++11 and C++14—i.e. using *modern C++*.

Topics include:

- The pros and cons of braced initialization, **noexcept** specifications, perfect forwarding, and smart pointer **make** functions
- The relationships among **std::move**, **std::forward**, rvalue references, and universal references
- Techniques for writing clear, correct, *effective* lambda expressions
- How **std::atomic** differs from **volatile**, how each should be used, and how they relate to C++'s concurrency API
- How best practices in "old" C++ programming (i.e., C++98) require revision for software development in modern C++

Effective Modern C++ follows the proven guideline-based, example-driven format of Scott Meyers' earlier books, but covers entirely new material.

"After I learned the C++ basics, I then learned how to use C++ in production code from Meyer's series of Effective C++ books. *Effective Modern C++* is the most important how-to book for advice on key guidelines, styles, and idioms to use modern C++ effectively and well. Don't own it yet? Buy this one. Now".
-- Herb Sutter, Chair of ISO C++ Standards Committee and C++ Software Architect at Microsoft

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Editorial Review

About the Author

For more than 20 years, Scott Meyers' Effective C++ books (Effective C++, More Effective C++, and Effective STL) have set the bar for C++ programming guidance. His clear, engaging explanations of complex technical material have earned him a worldwide following, and they keep him in demand as a trainer, consultant, and conference presenter. Winner of the 2009 Dr. Dobb's Excellence in Programming Award, he has a Ph.D. in Computer Science from Brown University. His web site is aristeia.com.

Users Review

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Martha Williams:

The feeling that you get from Effective Modern C++: 42 Specific Ways to Improve Your Use of C++11 and C++14 may be the more deep you digging the information that hide inside the words the more you get interested in reading it. It does not mean that this book is hard to comprehend but Effective Modern C++: 42 Specific Ways to Improve Your Use of C++11 and C++14 giving you excitement feeling of reading. The article author conveys their point in particular way that can be understood by means of anyone who read this because the author of this publication is well-known enough. That book also makes your own personal vocabulary increase well. So it is easy to understand then can go together with you, both in printed or e-book style are available. We suggest you for having this kind of Effective Modern C++: 42 Specific Ways to Improve Your Use of C++11 and C++14 instantly.

Frances Carpenter:

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Madeleine Bandy:

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forget the main stage, giving the reader the hottest in addition to based confirm resource facts that maybe you can be considered one of it. This great information can drawn you into brand new stage of crucial thinking.

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