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.

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