



Effective STL: 50 Specific Ways to Improve Your Use of the Standard Template Library

Scott Meyers

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“This is *Effective C++* volume three – it’s really that good.”

– Herb Sutter, independent consultant and secretary of the ISO/ANSI C++ standards committee

“There are very few books which all C++ programmers *must* have. Add *Effective STL* to that list.”

– Thomas Becker, Senior Software Engineer, Zephyr Associates, Inc., and columnist, *C/C++ Users Journal*

C++’s Standard Template Library is revolutionary, but learning to use it well has always been a challenge. Until now. In this book, best-selling author Scott Meyers (*Effective C++* , and *More Effective C++*) reveals the critical rules of thumb employed by the experts – the things they almost always do or almost always avoid doing – to get the most out of the library.

Other books describe *what’s in* the STL. *Effective STL* shows you *how to use it*. Each of the book’s 50 guidelines is backed by Meyers’ legendary analysis and incisive examples, so you’ll learn not only what to do, but also *when* to do it – and *why*.

Highlights of *Effective STL* include:

- Advice on choosing among standard STL containers (like vector and list), nonstandard STL containers (like hash_set and hash_map), and non-STL containers (like bitset).
- Techniques to maximize the efficiency of the STL and the programs that use it.
- Insights into the behavior of iterators, function objects, and allocators, including things you should *not* do.
- Guidance for the proper use of algorithms and member functions whose names are the same (e.g., find), but whose actions differ in subtle (but important) ways.
- Discussions of potential portability problems, including straightforward ways to avoid them.

Like Meyers’ previous books, *Effective STL* is filled with proven wisdom that comes only from experience. Its clear, concise, penetrating style makes it an essential resource for every STL programmer.

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