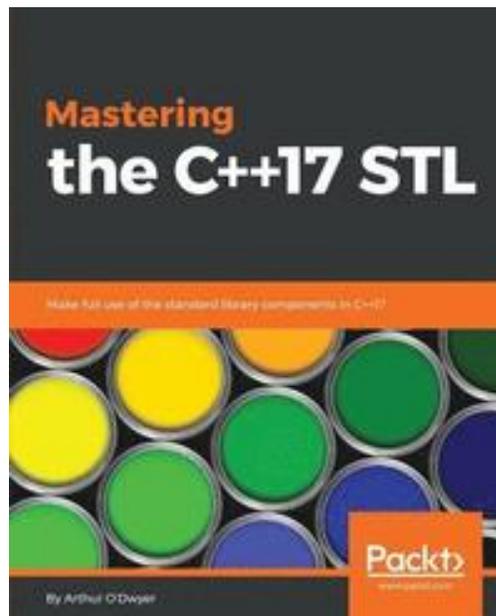


# Mastering the C++17 STL

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Arthur O'Dwyer

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This book breaks down the C++ STL, teaching you how to extract its gems and apply them to your programming. About This Book \* Boost your productivity as a C++ developer with the latest features of C++17 \* Develop high-quality, fast, and portable applications with the varied features of the STL \* Migrate from older versions (C++11, C++14) to C++17 Who This Book Is For This book is for developers who would like to master the C++ STL and make full use of its components. Prior C++ knowledge is assumed. What You Will Learn \* Make your own iterator types, allocators, and thread pools. \* Master every standard container and every standard algorithm. \* Improve your code by replacing new/delete with smart pointers. \* Understand the difference between monomorphic algorithms, polymorphic algorithms, and generic algorithms. \* Learn the meaning and applications of vocabulary type, product type and sum type. In Detail Modern C++ has come a long way since 2011. The latest update, C++17, has just been ratified and several implementations are on the way. This book is your guide to the C++ standard library, including the very latest C++17 features. The book starts by exploring the C++ Standard Template Library in depth. You will learn the key differences between classical polymorphism and generic programming, the foundation of the STL. You will also learn how to use the various algorithms and containers in the STL to suit your programming needs. The next module delves into the tools of

modern C++. Here you will learn about algebraic types such as `std::optional`, vocabulary types such as `std::function`, smart pointers, and synchronization primitives such as `std::atomic` and `std::mutex`. In the final module, you will learn about C++'s support for regular expressions and file I/O. By the end of the book you will be proficient in using the C++17 standard library to implement real programs, and you'll have gained a solid understanding of the library's own internals. Style and approach This book takes a concise but comprehensive approach to explaining and applying the C++ STL, one feature at a time.



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