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C 17 In Detail Learn The Exciting Features Of The

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Learn C the Hard Way Packt Publishing Ltd

All the new language and library features of C++17 (for those who know the previous versions of C++). C++17 is the next evolution in modern C++ programming, which is already now supported by the latest version of gcc, clang, and Visual C++. Although it is not as big a step as C++11, it contains a large number of small and valuable language and library features, which will change the way we program in C++. As usual, not everything is self-explanatory, combining new features gives even more power, and there are hidden traps. This book presents all the new language and library features of C++17. It covers the motivation and context of each new feature with examples and background information. The focus is on how these features impact day-to-day programming, what it means to combine them, and how to benefit from this in practice.

C Programming Language Fertig Publications

This book shows the story of lambda expressions in C++. You'll learn how to use this powerful feature in a step-by-step manner, slowly digesting the new capabilities and enhancements that come with each revision of the C++ Standard. This is a Black and White version. The full-colour print is also available but more expensive. We'll start with C++98/03, and then we'll move on to the latest C++ Standards. C++98/03 - how to code without lambda support. What was the motivation for the new modern C++ feature? C++11 - early days. You'll learn about all the elements of a lambda expression and even some tricks. This is the longest chapter as we need to cover a lot. C++14 - updates. Once lambdas were adopted, we saw some options to improve them. C++17 - more improvements, especially by handling this pointer and allowing constexpr. C++20 - in this section we'll have a look at the latest and very fresh C++20 Standard. Additionally, throughout the chapters, you'll learn about the following techniques: Immediately Invoked Functional Expressions (IIFE) How to instrument a default functor to gather extra information Replacing std::bind1st, std::bind2nd and removed functional stuff The Overloaded Pattern and how to inherit from a lambda Passing C++ captureless lambda as a function pointer to C API LIFTING with lambdas Storing lambdas in a container Variadic templates and arguments packs Lambdas and asynchronous execution and many more All equipped with more than 85 runnable code samples!

Programming No Starch Press

Learn to write apps for some of today's hottest technologies, including the iPhone and iPad (using iOS), as well as the Mac (using OS X). It starts with Objective-C, the base language on which the native iOS software development kit (SDK) and the OS X are based. Learn Objective-C on the Mac: For OS X and iOS, Second Edition updates a best selling book and is an extensive, newly updated guide to Objective-C. Objective-C is a powerful, object-oriented extension of C, making this update the perfect follow-up to Dave Mark's bestselling *Learn C on the Mac*. Whether you're an experienced C programmer or you're coming from a different language such as C++ or Java, leading Mac experts Scott Knaster and Waqar Malik show how to harness the power of Objective-C in your apps! A complete course on the basics of Objective-C using Apple's newest Xcode tools An introduction to object-oriented programming Comprehensive coverage of new topics like blocks, GCD, ARC, class extensions, as well as inheritance, composition, object initialization, categories, protocols, memory management, and organizing source files An introduction to building user interfaces using what is called the UIKit A primer for non-C programmers to get off the ground even faster

C++17 - The Complete Guide Pearson Deutschland GmbH

The C programming language is a popular language in industries as well as academics. Since its invention and standardized as ANSI C, several other standards known as C99, C11, and C17 were published with new features in subsequent years. This book covers all the traits of ANSI C and

includes new features present in other standards. The content of this book helps a beginner to learn the fundamental concept of the C language. The book contains a step-by-step explanation of every program that allows a learner to understand the syntax and builds a foundation to write similar programs. The explanation clarity, exercises, and illustrations present in this book make it a complete textbook in all aspects. Features: Other than ANSI C, the book explains the new C standards like C99, C11, and C17. Most basic and easy-to-follow programs are chosen to explain the concepts and their syntax. More emphasis is given to the topics like Functions, Pointers, and Structures. Recursion is emphasized with numerous programming examples and diagrams. A separate chapter on the command-line argument and preprocessors is included that concisely explains their usage. Several real-life figures are taken to explain the concepts of dynamic memory allocation, file handling, and the difference between structure and union. The book contains more than 260 illustrations, more than 200 programs, and exercises at the end of each chapter. This book serves as a textbook for UG/PG courses in science and engineering. The researcher, postgraduate engineers, and embedded software developers can also keep this book as reference material for their fundamental learning.

C++ Concurrency in Action Pearson Education

Bestselling Programming Tutorial and Reference Completely Rewritten for the New C++11 Standard Fully updated and recast for the newly released C++11 standard, this authoritative and comprehensive introduction to C++ will help you to learn the language fast, and to use it in modern, highly effective ways. Highlighting today's best practices, the authors show how to use both the core language and its standard library to write efficient, readable, and powerful code. C++ Primer, Fifth Edition, introduces the C++ standard library from the outset, drawing on its common functions and facilities to help you write useful programs without first having to master every language detail. The book's many examples have been revised to use the new language features and demonstrate how to make the best use of them. This book is a proven tutorial for those new to C++, an authoritative discussion of core C++ concepts and techniques, and a valuable resource for experienced programmers, especially those eager to see C++11 enhancements illuminated. Start Fast and Achieve More Learn how to use the new C++11 language features and the standard library to build robust programs quickly, and get comfortable with high-level programming Learn through examples that illuminate today's best coding styles and program design techniques Understand the "rationale behind the rules": why C++11 works as it does Use the extensive crossreferences to help you connect related concepts and insights Benefit from up-to-date learning aids and exercises that emphasize key points, help you to avoid pitfalls, promote good practices, and reinforce what you've learned Access the source code for the extended examples from informit.com/title/0321714113 C++ Primer, Fifth Edition, features an enhanced, layflat binding, which allows the book to stay open more easily when placed on a flat surface. This special binding method—notable by a small space inside the spine—also increases durability.

C++ from the Ground Up Pearson Education

The most widely read and trusted guide to the C++ language, standard library, and design techniques includes significant new updates and two new appendices on internationalization and Standard Library technicalities. It is the only book with authoritative, accessible coverage of every major element of ISO/ANSI Standard C++.

C++ Templates Addison-Wesley Professional

C++'s Standard Template Library is revolutionary, but learning to use it well has always been a challenge for students. In *Effective STL*, best-selling author Scott Meyers (*Effective C++*, *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. This book offers clear, concise, and concrete guidelines to C++ programmers. While other books describe what's in the

STL, *Effective STL* shows the student how to use it. Each of the book's 50 guidelines is backed by Meyers' legendary analysis and incisive examples, so the student will learn not only what to do, but also when to do it - and why.

C++ "O'Reilly Media, Inc."

An encyclopedia designed especially to meet the needs of elementary, junior high, and senior high school students.

C++ Crash Course Addison-Wesley

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

C++ High Performance McGraw-Hill/Osborne Media

C++17 is a major update to the language and brings many exciting additions and improvements that will change your pre for the better. This book shows you all of the significant changes in the new Standard. I spent hundreds of hours investigating how the new features work to ensure this book is helpful and practical. It will not only save you time but will guide you through lots of nuances of the language and the Standard Library. Among the dozens of C++17's enhancements described in the book, you will learn about the following: Class Template Argument Deduction Structured Bindings Fold Expressions Inline Variables Parallel Algorithms Polymorphic Allocator std::any std::byte std::filesystem std::from_chars std::optional std::string_view std::variant [[nodiscard]] if constexpr If you have experience with C++11/14 and you want to advance to the latest C++ Standard, then pick up the book and start reading. "If you've ever asked 'what's in C++17 and what does it mean for me and my pre?' -- and I hope you have -- then this book is for you." Herb Sutter The book is also available as ebook @Leanpub: <https://leanpub.com/cpp17indetail>

The Modern C++ Challenge Jones & Bartlett Publishers

Write code that scales across CPU registers, multi-core, and machine clusters Key Features Explore concurrent programming in C++ Identify memory management problems Use SIMD and STL containers for performance improvement Book Description C++ is a highly portable language and can be used to write both large-scale applications and performance-critical code. It has evolved over the last few years to become a modern and expressive language. This book will guide you through optimizing the performance of your C++ apps by allowing them to run faster and consume fewer resources on the device they're running on without compromising the readability of your code base. The book begins by helping you measure and identify bottlenecks in a C++ code base. It then moves on by teaching you how to use modern C++ constructs and techniques. You'll see how this affects the way you write code. Next, you'll see the importance of data structure optimization and memory management, and how it can be used efficiently with respect to CPU caches. After that, you'll see how STL algorithm and composable Range V3 should be used to both achieve faster execution and more readable code, followed by how to use STL containers and how to write your own specialized iterators. Moving on, you'll get hands-on experience in making use of modern C++ metaprogramming and reflection to reduce boilerplate code as well as in working with proxy objects to perform optimizations under the hood. After that, you'll learn concurrent programming and understand lock-free data structures. The book ends with an overview of parallel algorithms using STL execution policies, Boost Compute, and OpenCL to utilize both the CPU and the GPU. What you will learn Benefits of modern C++ constructs and techniques Identify hardware bottlenecks, such as CPU cache misses, to boost performance Write specialized data structures for performance-critical code Use modern metaprogramming techniques to reduce runtime calculations Achieve efficient memory management using custom memory allocators Reduce boilerplate code using reflection techniques Reap the benefits of lock-free concurrent programming Perform under-the-hood optimizations with preserved readability using proxy objects Gain insights into subtle optimizations used by STL algorithms Utilize the Range V3 library for expressive C++ code Parallelize your code over CPU and GPU, without compromising readability Who this book is for If you're a C++ developer looking to improve the speed of your code or simply wanting to take your skills up to the next level, then this book is perfect for you.

Learn Objective-C on the Mac Packt Publishing Ltd

Learn how to program using the updated C++17 language. You'll start with the basics and progress through step-by-step examples to become a working C++ programmer. All you need are *Beginning C++17* and any recent C++ compiler and you'll soon be writing real C++ programs. There is no assumption of prior programming knowledge. All language concepts that are explained in the book are illustrated with working program examples, and all chapters include exercises for you to test and practice your knowledge. Code downloads are provided for all examples from the text and solutions to the exercises. This latest edition has been fully updated to the latest version of the language, C++17, and to all conventions and best practices of so-called modern C++. *Beginning C++17* also introduces the elements of the C++ Standard Library that provide essential support for the C++17 language. What You'll Learn Define variables and make decisions Work with arrays and loops, pointers and references, strings, and more Write your own functions, types, and operators Discover the essentials of object-oriented programming Use overloading, inheritance, virtual functions and polymorphism Write generic function templates and class templates Get up to date with modern C++ features: auto type declarations, move semantics, lambda expressions, and more Examine the new additions to C++17 Who This Book Is For Programmers new to C++ and those who may be looking for a refresh primer on the C++17 programming language in general.

C Programming بلومانيا للنشر والتوزيع

Design and architect real-world scalable C++ applications by exploring advanced techniques in low-level programming, object-oriented programming (OOP), the Standard Template Library (STL), metaprogramming, and concurrency Key Features Design professional-grade, maintainable apps by learning advanced concepts such as functional programming, templates, and networking Apply design patterns and best practices to solve real-world problems Improve the performance of your projects by designing concurrent data structures and algorithms Book Description C++ has evolved over the years and the latest release - C++20 - is now available. Since C++11, C++ has been constantly enhancing the language feature set. With the new version, you'll explore an array of

features such as concepts, modules, ranges, and coroutines. This book will be your guide to learning the intricacies of the language, techniques, C++ tools, and the new features introduced in C++20, while also helping you apply these when building modern and resilient software. You'll start by exploring the latest features of C++, and then move on to advanced techniques such as multithreading, concurrency, debugging, monitoring, and high-performance programming. The book will delve into object-oriented programming principles and the C++ Standard Template Library, and even show you how to create custom templates. After this, you'll learn about different approaches such as test-driven development (TDD), behavior-driven development (BDD), and domain-driven design (DDD), before taking a look at the coding best practices and design patterns essential for building professional-grade applications. Toward the end of the book, you will gain useful insights into the recent C++ advancements in AI and machine learning. By the end of this C++ programming book, you'll have gained expertise in real-world application development, including the process of designing complex software. What you will learn Understand memory management and low-level programming in C++ to write secure and stable applications Discover the latest C++20 features such as modules, concepts, ranges, and coroutines Understand debugging and testing techniques and reduce issues in your programs Design and implement GUI applications using Qt5 Use multithreading and concurrency to make your programs run faster Develop high-end games by using the object-oriented capabilities of C++ Explore AI and machine learning concepts with C++ Who this book is for This C++ book is for experienced C++ developers who are looking to take their knowledge to the next level and perfect their skills in building professional-grade applications. *Hands-On System Programming with C++* Apress

A fast-paced, thorough introduction to modern C++ written for experienced programmers. After reading C++ Crash Course, you'll be proficient in the core language concepts, the C++ Standard Library, and the Boost Libraries. C++ is one of the most widely used languages for real-world software. In the hands of a knowledgeable programmer, C++ can produce small, efficient, and readable code that any programmer would be proud of. Designed for intermediate to advanced programmers, C++ Crash Course cuts through the weeds to get you straight to the core of C++17, the most modern revision of the ISO standard. Part 1 covers the core of the C++ language, where you'll learn about everything from types and functions, to the object life cycle and expressions. Part 2 introduces you to the C++ Standard Library and Boost Libraries, where you'll learn about all of the high-quality, fully-featured facilities available to you. You'll cover special utility classes, data structures, and algorithms, and learn how to manipulate file systems and build high-performance programs that communicate over networks. You'll learn all the major features of modern C++, including: Fundamental types, reference types, and user-defined types The object lifecycle including storage duration, memory management, exceptions, call stacks, and the RAII paradigm Compile-time polymorphism with templates and run-time polymorphism with virtual classes Advanced expressions, statements, and functions Smart pointers, data structures, dates and times, numerics, and probability/statistics facilities Containers, iterators, strings, and algorithms Streams and files, concurrency, networking, and application development With well over 500 code samples and nearly 100 exercises, C++ Crash Course is sure to help you build a strong C++ foundation.

Expert C++ Nicojosuttis

You Will Learn C! Zed Shaw has crafted the perfect course for the beginning C programmer eager to advance their skills in any language. Follow it and you will learn the many skills early and junior programmers need to succeed—just like the hundreds of thousands of programmers Zed has taught to date! You bring discipline, commitment, persistence, and experience with any programming language; the author supplies everything else. In *Learn C the Hard Way*, you'll learn C by working through 52 brilliantly crafted exercises. Watch Zed Shaw's teaching video and read the exercise. Type his code precisely. (No copying and pasting!) Fix your mistakes. Watch the programs run. As you do, you'll learn what good, modern C programs look like; how to think more effectively about code; and how to find and fix mistakes far more efficiently. Most importantly, you'll master rigorous defensive programming techniques, so you can use any language to create software that protects itself from malicious activity and defects. Through practical projects you'll apply what you learn to build confidence in your new skills. Shaw teaches the key skills you need to start writing excellent C software, including Setting up a C environment Basic syntax and idioms Compilation, make files, and linkers Operators, variables, and data types Program control Arrays and strings Functions, pointers, and structs Memory allocation I/O and files Libraries Data structures, including linked lists, sort, and search Stacks and queues Debugging, defensive coding, and automated testing Fixing stack overflows, illegal memory access, and more Breaking and hacking your own C code It'll Be Hard at First. But Soon, You'll Just Get It—And That Will Feel Great! This tutorial will reward you for every minute you put into it. Soon, you'll know one of the world's most powerful programming languages. You'll be a C programmer.

Programming in Lua Apress

Authored by Roberto Ierusalimsky, the chief architect of the language, this volume covers all aspects of Lua 5---from the basics to its API with C---explaining how to make good use of its features and giving numerous code examples. (Computer Books)

C++ Lambda Story Packt Publishing Ltd

Test your C++ programming skills by solving real-world programming problems covered in the book Key Features Solve a variety of real-world programming and logic problems by leveraging the power of C++17 Test your skills in using language features, algorithms, data structures, design patterns, and more Explore areas such as cryptography, communication, and image handling in C++ Book Description C++ is one of the most widely-used programming languages and has applications in a variety of fields, such as gaming, GUI programming, and operating systems, to name a few. Through the years, C++ has evolved into (and remains) one of the top choices for software developers worldwide. This book will show you some notable C++ features and how to implement them to meet your application needs. Each problem is unique and doesn't just test your knowledge of the language; it tests your ability to think out of the box and come up with the best solutions. With varying levels of difficulty, you'll be faced with a wide variety of challenges. And in case you're stumped, you don't have to worry: we've got the best solutions to the problems in the book. So are you up for the challenge? What you will learn Serialize and deserialize JSON and XML data Perform encryption and signing to facilitate secure communication between parties Embed and use SQLite databases in your applications Use threads and asynchronous functions to implement generic purpose parallel algorithms Compress and decompress files to/from a ZIP archive Implement data structures such as circular buffer and priority queue Implement general purpose algorithms as well as algorithms that solve specific problems Create client-server applications that communicate over TCP/IP Consume HTTP REST services Use design patterns to solve real-world problems Who this book is for This book will appeal to C++ developers of all levels. There's a challenge inside for everyone. *Learn C Programming* Addison-Wesley

C is the programming language of choice when speed and reliability are required. It is used for many low-level tasks, such as device drivers and operating-system programming. For example, much of Windows and Linux is based on C programming. The updated 4th edition of *Beginning C* builds on the strengths of its predecessors to offer an essential guide for anyone who wants to learn C or desires a 'brush-up' in this compact, fundamental language. This classic from author, lecturer and

respected academic Ivor Horton is the essential guide for anyone looking to learn the C language from the ground up.

[Beginning C++ Programming](#) Simon and Schuster

The Best-Selling C++ Resource Now Updated for C++11 The C++ standard library provides a set of common classes and interfaces that greatly extend the core C++ language. The library, however, is not self-explanatory. To make full use of its components—and to benefit from their power—you need a resource that does far more than list the classes and their functions. The C++ Standard Library: A Tutorial and Reference, Second Edition, describes this library as now incorporated into the new ANSI/ISO C++ language standard (C++11). The book provides comprehensive documentation of each library component, including an introduction to its purpose and design; clearly written explanations of complex concepts; the practical programming details needed for effective use; traps and pitfalls; the exact signature and definition of the most important classes and functions; and numerous examples of working code. The book focuses in particular on the Standard Template Library (STL), examining containers, iterators, function objects, and STL algorithms. The book covers all the new C++11 library components, including Concurrency Fractional arithmetic Clocks and timers Tuples New STL containers New STL algorithms New smart pointers New locale facets Random numbers and distributions Type traits and utilities Regular expressions The book also examines the new C++ programming style and its effect on the standard library, including lambdas, range-based for loops, move semantics, and variadic templates. An accompanying Web site, including source code, can be found at www.cppstdlib.com.

The C++ Programming Language Packt Publishing Ltd

NOTE: You are purchasing a standalone product; MyProgrammingLab does not come packaged with this content. If you would like to purchase both the physical text and MyProgrammingLab search for ISBN-10: 0133450732/ISBN-13: 9780133450736 . That package includes ISBN-10: 0133146146/ISBN-13: 9780133146141 and ISBN-10: 0133378713/ISBN-13: 9780133378719. MyProgrammingLab should only be purchased when required by an instructor For Introduction to Programming (CS1) and other more intermediate courses covering programming in C++. Also appropriate as a supplement for upper-level courses where the instructor uses a book as a reference for the C++ language. This best-selling comprehensive text is aimed at readers with little or no programming experience. It teaches programming by presenting the concepts in the context of full working programs and takes an early-objects approach. The authors emphasize achieving program clarity through structured and object-oriented programming, software reuse and component-oriented software construction. The Ninth Edition encourages students to connect computers to the community, using the Internet to solve problems and make a difference in our world. All content has been carefully fine-tuned in response to a team of distinguished academic and industry reviewers. MyProgrammingLab for C++ How to Program is a total learning package. MyProgrammingLab is an online homework, tutorial, and assessment program that truly engages students in learning. It helps students better prepare for class, quizzes, and exams—resulting in better performance in the course—and provides educators a dynamic set of tools for gauging individual and class progress. And, MyProgrammingLab comes from Pearson, your partner in providing the best digital learning experience. View the Deitel Buzz online to learn more about the newest publications from the Deitels.

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