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LISA ALBERT

Modern C Programming Createspace Independent Publishing Platform

Revised and extended, this text covers all features of the C programming language for both the student and the professional user.

Practical C Programming Packt Publishing Ltd

The authors provide clear examples and thorough explanations of every feature in the C language. They teach C vis-a-vis the UNIX operating system.

A reference and tutorial to the C programming language. Annotation copyrighted by Book News, Inc., Portland, OR

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

"Solutions and examples for C++ programmers"--Cover.

[The C Programming Language, 3rd Edition](#) Pragmatic Bookshelf

A recipe-based guide to refining your C++ programming skills with the help of coding best practices, advanced programming concepts, and the latest features of C++17 and C++20 Key Features Learn how to develop and design your own libraries Find solutions to your app development problems and implement them in a highly reusable manner, following library development best practices Explore advanced C++ features such as containers,

coroutines, and modules Book Description If you think you've mastered C++ and know everything it takes to write robust applications, you'll be in for a surprise. With this book, you'll gain comprehensive insights into C++, covering exclusive tips and interesting techniques to enhance your app development process. You'll kick off with the basic principles of library design and development, which will help you understand how to write reusable and maintainable code. You'll then discover the importance of exception safety, and how you can avoid unexpected errors or bugs in your code. The book will take you through the modern elements of C++, such as move semantics, type deductions, and coroutines. As you advance, you'll delve into template programming - the standard tool for most library developers looking to achieve high code reusability. You'll explore the STL and learn how to avoid common pitfalls while implementing templates. Later, you'll learn about the problems of multithreaded programming such as data races, deadlocks, and thread starvation. You'll also learn high-performance programming by using benchmarking tools and libraries. Finally, you'll discover advanced techniques for debugging and testing to ensure code reliability. By the end of this book, you'll have become an expert at C++ programming and will have gained the skills to solve complex development problems with ease. What you will learn Solve common C++ development problems by implementing solutions in a more generic and reusable way Achieve different levels of exception safety guarantees by introducing precise declarations Write library-quality code that meets professional standards Practice writing reliable, performant code that exposes consistent behavior in programs Understand why you need to implement design patterns and how it's done Work with complex examples to understand various aspects of good library design Who this book is for This book is for intermediate and expert-level C++ developers who are looking to explore the lesser known

functionalities of the language to improve the efficiency of their code and the way they develop applications. Basic knowledge of object-oriented programming concepts and the Standard Template Library (STL) is assumed.

[C++ High Performance](#) Manning

If you're one of the many developers uncertain about concurrent and multithreaded development, this practical cookbook will change your mind. With more than 75 code-rich recipes, author Stephen Cleary demonstrates parallel processing and asynchronous programming techniques, using libraries and language features in .NET 4.5 and C# 5.0. Concurrency is becoming more common in responsive and scalable application development, but it's been extremely difficult to code. The detailed solutions in this cookbook show you how modern tools raise the level of abstraction, making concurrency much easier than before. Complete with ready-to-use code and discussions about how and why the solution works, you get recipes for using: `async` and `await` for asynchronous operations Parallel programming with the Task Parallel Library The TPL Dataflow library for creating dataflow pipelines Capabilities that Reactive Extensions build on top of LINQ Unit testing with concurrent code Interop scenarios for combining concurrent approaches Immutable, threadsafe, and producer/consumer collections Cancellation support in your concurrent code Asynchronous-friendly Object-Oriented Programming Thread synchronization for accessing data

Modern C++ Programming Cookbook - Third Edition Springer

C++ was written to help professional C# developers learn modern C++ programming. The aim of this book is to leverage your existing C# knowledge in order to expand your skills. Whether you need to use C++ in an upcoming project, or simply want to learn a new language (or reacquaint yourself with it), this book will help you learn all of the fundamental pieces of C++ so you can begin writing your own C++ programs. This updated and expanded second edition of Book provides a user-friendly introduction to the subject, Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject. We hope you find this book useful in shaping your future career & Business.

[Concurrency in C# Cookbook](#) Springer Nature

This book provides comprehensive detail about modern C programming, including the standards C99, C11, C17, C23, reflecting recent updates. The book features a number of targeted examples, atomic data types, and threads. After covering the standards of C, the author explains data types, operators, loops, conditional statements, functions, pointers, and more. The book is intended primarily for electrical and hardware engineers looking to use or update their knowledge of modern C programming.

[C Programming for Beginners](#) "O'Reilly Media, Inc."

Almost 50 years ago, the C language defined modern computer programming. This book shows you why C is still as powerful and popular as ever, with an inside look at the new C23 standard. For programs that need to be small, fast, and unfailingly reliable, C is still the gold standard. Whether you're writing embedded code, low-level system routines, or high-performance applications, C is up to the challenge. This unique book by Jens Gustedt, a member of the ISO C standards committee, gets you up to speed with C23. In Modern C, Third Edition you'll: Learn C basics, core features, and advanced concepts Leverage major C23 improvements for security, reliability, and performance Write portable code that runs anywhere Build multi-threaded applications with atomics and synchronization Create robust and resilient software with error handling Use type-generic programming for reusable code C powers more software than any other language—from embedded devices to distributed systems. In Modern C, Third Edition you'll learn to harness C's full potential using the latest tools and techniques. After a quick review of the fundamentals perfect for beginners or coders who haven't used C in a while, this book guides you to mastery of C23, the latest ISO standard. Purchase of the print book includes a free eBook in PDF and ePub formats from Manning Publications. About the book Modern C, Third Edition is fully revised from the bestselling original to fully cover the C23 standard. For new or returning C coders, it starts with fundamentals like structure, grammar, compilation, and execution. From there, you'll advance to control structures, data types, operators, and functions, as you gain a deeper understanding of what's happening under the hood. This expanded C23 edition contains new coverage discussing compound expressions and lambdas, a comprehensive approach for program failure, and new appendices to aid your transition to C23. You'll code as you go with concept-reinforcing exercises and skill-honing challenges along the way. About the reader For professional developers looking to boost their C programming skills with the latest features and techniques. About the author Jens Gustedt is a senior scientist at the French National Institute for Computer Science and Control (INRIA), deputy director of the ICube lab in Strasbourg, France, and is an active member of the ISO C standards committee.

[Hands-On System Programming with C++](#) Packt Publishing Ltd

Discover the newest major features of C++20, including modules, concepts, spaceship operators, and smart pointers. This book is a handy code cookbook reference guide that covers the C++ core language standard as well as some of the code templates available in standard template library (STL). In C++20 Recipes: A Problem-Solution Approach, you'll find numbers, strings, dates, times, classes, exceptions, streams, flows, pointers, and more. Also, you'll see various code samples, templates for C++ algorithms, parallel processing, multithreading, and numerical processes. It also includes 3D graphics programming code. A wealth of STL templates on function objects, adapters, allocators, and extensions are also available. This is a must-have, contemporary reference for your technical library to help with just about any project that involves the C++ programming language. What You Will Learn See what's new in C++20 Write modules Work with text, numbers, and classes Use the containers and algorithms available in the standard library Work with templates, memory, concurrency, networking, scripting, and more Code for 3D graphics Who This Book Is For Programmers with at least some prior experience with C++.

A Book on C Createspace Independent Publishing Platform

Over 100 recipes to help you overcome your difficulties with C++ programming and gain a deeper understanding of the working of C++17 About This Book* Learn the latest features of C++ such as concurrency, multi-threading capabilities, testing, and more* Extend your C++ knowledge and take your development skills to new heights by making your applications fast, secure, and scalable* This book will give you a great understanding of how C++ works and how to leverage its features Who This Book Is For If you want to overcome difficult phases of development with C++ and leverage its

features using modern programming practices, then this book is for you. The book is designed for both experienced C++ programmers as well as people with strong knowledge of OOP concepts. What you will learn* Get to know about the new core language features and the problems they were intended to solve* Understand the standard support for threading and concurrency and know how to put them on work for daily basic tasks* Leverage C++'s features to get increased robustness and performance* Explore the widely-used testing frameworks for C++ and implement various useful patterns and idioms* Work with various types of strings and look at the various aspects of compilation* Explore functions and callable objects with a focus on modern features* Leverage the STL and work with containers, algorithms, and iterators* Use the new utility additions to the Standard Library to solve common problems developers encounter including optional and variant types In Detail C++ is one of the oldest and most widely used programming languages. Fast, efficient, and flexible, it is used to solve many problems. The upcoming version of C++ will see programmers change the way they code, giving up on the old-fashioned C-style programming and adopting modern C++ instead. Beginning with the modern language features, each recipe addresses a specific problem, with a discussion that explains the solution and offers insight into how it works. You will learn major concepts about the core programming language as well as common tasks faced while building a wide variety of software, from enterprise grade apps to low latency software. You will learn about concepts such as concurrency, performance, testing, and more in the form of recipes. These recipes will ensure you can make your applications secure and fast. By the end of the book, you will understand the newer aspects of C++ and will be able to overcome tasks that are time-consuming or would break your stride while developing.

C Programming Language John Wiley & Sons

Written by bestselling author Al Kelley and Ira Pohl, "A Book on C, 4th Ed". is a comprehensive tutorial and reference to C, based on the ANSI standard. This book assumes prior programming experience. The authors demonstrate the C language with numerous examples and extensive exercises that guide readers through each concept.

Expert C Programming 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.

C Programming Cookbook Packt Publishing Ltd

The C++11 standard allows programmers to express ideas more clearly, simply, and directly, and to write faster, more efficient code. Bjarne Stroustrup, the designer and original implementer of C++, thoroughly covers the details of this language and its use in his definitive reference, The C++ Programming Language, Fourth Edition. In A Tour of C++ , Stroustrup excerpts the overview chapters from that complete reference, expanding and enhancing them to give an experienced programmer-in just a few hours—a clear idea of what constitutes modern C++. In this concise, self-contained guide, Stroustrup covers most major language features and the major standard-library components—not, of course, in great depth, but to a level that gives programmers a meaningful overview of the language, some key examples, and practical help in getting started. Stroustrup presents the C++ features in the context of the programming styles they support, such as object-oriented and generic programming. His tour is remarkably comprehensive. Coverage begins with the basics, then ranges widely through more advanced topics, including many that are new in C++11, such as move semantics, uniform initialization, lambda expressions, improved containers, random numbers, and concurrency. The tour ends with a discussion of the design and evolution of C++ and the extensions added for C++11. This guide does not aim to teach you how to program (see Stroustrup's Programming: Principles and Practice Using C++ for that); nor will it be the only resource you'll need for C++ mastery (see Stroustrup's The C++ Programming Language, Fourth Edition, for that). If, however, you are a C or C++ programmer wanting greater familiarity with the current C++ language, or a programmer versed in another language wishing to gain an accurate picture of the nature and benefits of modern C++, you can't find a shorter or simpler introduction than this tour provides.

Book on C 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.

[Modern C++ Programming Cookbook](#) Packt Publishing Ltd

C++ Sale price. You will save 66% with this offer. Please hurry up! Effective Modern C++(C++ 11, C++ 14) If you are a programmer or looking to get into programming, you are probably wondering what C++11 and C++ 14 have to offer. You're probably wondering about their major differences and ultimately what it can do to help you code more effectively. This book is here to provide that information. C++11 and C++14 have made significant changes to improve not only a variety of libraries but also the core language. C++14 is the newest version of C++ which was released in August of 2014. Improvements in this version made the language not only convenient to use but also safer. This guide will provide more than just information. This guide will provide information on how the language has changed, how you can use it and examples of putting it all together in practice. This book will also provide details various problems and how to solve them from a C++11 and C++14 perspective. Use this book as your reference guide for some of the major features within C++11 and C++14. Here is a preview of what you'll learn: Multithreading support Generic programming support Uniform initialization Performance C++ Standard Library Download your copy of "C++" by scrolling up and clicking "Buy Now With 1-Click" button. Tags: C Programming, C++programming, C++ programming language, HTML, Javascript, Programming, Developers, Coding, CSS, Java, PHP, C++, Javascript, PHP, Python, Sql, HTML, Swift, C++, C Programming, Programming for beginners, c plus plus, PHP, Java, C++ Programming for Beginners, c primer plus, C Programming for Beginners, C++, C Programming, Programming for beginners, c plus plus, PHP, Java, C++ Programming for Beginners, C Programming, C++programming, C++ programming language, HTML, Javascript, Programming, Developers, Coding, CSS, Java, PHP, hackers, hacking, how to hack, hacking exposed, hacking system, hacking 101, hacking for dummies, Hacking Guide, Hacking Essentials, Computer Bugs, Security Breach, internet skills, hacking techniques, computer hacking, hacking the system, web hacking, how to hack

Learn C Programming Packt Publishing Ltd

Discover how C's efficiency makes it a popular choice in a wide variety of applications and operating systems with special applicability to wearables, game programming, system level programming, embedded device/firmware programming and in Arduino and related electronics hobbies in this condensed code and syntax guide. This book presents the essential C syntax in a well-organized format that can be used as a quick and handy reference. In this book, you will find short, simple, and focused code examples; and a well laid out table of contents and a comprehensive index allowing easy review. You won't find any technical jargon, bloated samples, drawn out history lessons, or witty stories. What you will find is a language reference that is concise, to the point and highly accessible. The book is packed with useful information and is a must-have for any C programmer. What You Will Learn Code for some of today's modern and popular firmware and systems How to do embedded programming found in Arduino and related hardware boards Program microcontrollers for robots and boards Handle low-level programming and memory management Leverage operating systems such as Linux and Unix Who This Book Is For Those with experience in programming, particularly C programming, looking for a quick, handy reference.

[C++ Programming Cookbook](#) Apress

Over 100 recipes to help you overcome your difficulties with C++ programming and gain a deeper understanding of the working of modern C++ About This Book Explore the most important language and library features of C++17, including containers, algorithms, regular expressions, threads, and more. Get going with unit testing frameworks Boost.Test, Google Test and Catch, Extend your C++ knowledge and take your development skills to new heights by making your applications fast, robust, and scalable. Who This Book Is For If you want to overcome difficult phases of development with C++ and leverage its features using modern programming practices, then this book is for you. The book is designed for both experienced C++ programmers as well as people with strong knowledge of OOP concepts. What You Will Learn Get to know about the new core language features and the problems they were intended to solve Understand the standard support for threading and concurrency and know how to put them on work for daily basic tasks Leverage C++'s features to get increased robustness and performance Explore the widely-used testing frameworks for C++ and implement various useful patterns and idioms Work with various types of strings and look at the various aspects of compilation Explore functions and callable objects with a focus on modern features Leverage the standard library and work with containers, algorithms, and iterators Use regular expressions for find and replace string operations Take advantage of the new filesystem library to work with files and directories Use the new utility additions to the standard library to solve common problems developers encounter including string_view, any, optional and variant types In Detail C++ is one of the most widely used programming languages. Fast, efficient, and flexible, it is used to solve many problems. The latest versions of C++ have seen programmers change the way they code, giving up on the old-fashioned C-style programming and adopting modern C++ instead. Beginning with the modern language features, each recipe addresses a specific problem, with a discussion that explains the solution and offers insight into how it works. You will learn major concepts about the core programming language as well as common tasks faced while building a wide variety of software. You will learn about concepts such as concurrency, performance, meta-programming, lambda expressions, regular expressions, testing, and many more in the form of recipes. These recipes will ensure you can make your applications robust and fast. By the end of the book, you will understand the newer aspects of C++11/14/17 and will be able to overcome tasks that are time-consuming or would break your stride while developing. Style and approach This book follows a recipe-based approach, with examples that will empower you to implement the core programming language features and explore the newer aspects of C++.

C Programming Language Packt Publishing Ltd

A pragmatic recipe book for acquiring a comprehensive understanding of the complexities and core fundamentals of C++ programming Key Features Explore the latest language and library features of C++20 such as modules, coroutines, concepts, and ranges Shed new light on the core concepts in

C++ programming, including functions, algorithms, threading, and concurrency, through practical self-contained recipes Leverage C++ features like smart pointers, move semantics, constexpr, and more for increased robustness and performance Book DescriptionC++ has come a long way to be one of the most widely used general-purpose languages that is fast, efficient, and high-performance at its core. The updated second edition of Modern C++ Programming Cookbook addresses the latest features of C++20, such as modules, concepts, coroutines, and the many additions to the standard library, including ranges and text formatting. The book is organized in the form of practical recipes covering a wide range of problems faced by modern developers. The book also delves into the details of all the core concepts in modern C++ programming, such as functions and classes, iterators and algorithms, streams and the file system, threading and concurrency, smart pointers and move semantics, and many others. It goes into the performance aspects of programming in depth, teaching developers how to write fast and lean code with the help of best practices. Furthermore, the book explores useful patterns and delves into the implementation of many idioms, including pimpl, named parameter, and attorney-client, teaching techniques such as avoiding repetition with the factory pattern. There is also a chapter dedicated to unit testing, where you are introduced to three of the most widely used libraries for C++: Boost.Test, Google Test, and Catch2. By the end of the book, you will be able to effectively leverage the features and techniques of C++11/14/17/20 programming to enhance the performance, scalability, and efficiency of your applications.What you will learn Understand the new C++20 language and library features and the problems they solve Become skilled at using the standard support for threading and concurrency for daily tasks Leverage the standard library and work with containers, algorithms, and iterators Solve text searching and replacement problems using regular expressions Work with different types of strings and learn the various aspects of compilation Take advantage of the file system library to work with files and directories Implement various useful patterns and idioms Explore the widely used testing frameworks for C++ Who this book is for The book is designed for entry- or medium-level C++ programmers who have a basic knowledge of C++ and want to master the language and become prolific modern C++ developers. Experienced C++ programmers can leverage this book to strengthen their command of C++ and find a good reference to many language and library features of C++11/14/17/20.

Embedded Programming with Modern C++ Cookbook Simon and Schuster

In The Swift Developer's Cookbook, renowned author Erica Sadun joins powerful strategies with ready-to-use Swift code for solving everyday development challenges. As in all of Sadun's programming best-sellers, The Swift Developer's Cookbook translates modern best practices into dozens of well-tested, easy-to-apply solutions. This book's code examples were created in response to real-world questions from working developers to reflect Swift's newest capabilities and best practices. Each chapter groups related tasks together. You can jump straight to your solution without having to identify the right class or framework first. Sadun covers key Swift development concepts, shows you how to write robust and efficient code, and helps you avoid common pitfalls other developers struggle with. She offers expert strategies for working with this immensely powerful language, taking into account Swift's rapid evolution and its migration tools. Whether you're moving to modern Swift from Objective-C, from older versions of the Swift language, or from the world of non-Apple languages, this guide will help you master both the "how" and "why" of effective Swift development. Industry recruiters are scrambling to find Swift developers who can solve real problems and produce effective working code. Get this book, and you'll be ready. Coverage includes Writing effective Swift code that communicates clearly and coherently to the compiler, your team, and to "future you," who will be maintaining this code Using Xcode to handle changes in Swift's language constructs as the language evolves Building feedback, documentation, and output to meet your development and debugging needs Making the most of optionals and their supporting constructs Using closures to encapsulate state and functionality and treat actions as variables for later execution Leveraging control flow with innovative Swift-specific statements Working with all Swift types: classes, enumerations, and structures Using generics and protocols to build robust code that expands functionality beyond single types Making the most of the powerful Swift error system Working with innovative features such as array indexing, general subscripting, statement labels, custom operators, and more This book is part of the Pearson Content Update Program (CUP). As the technology changes, sections of this book will be updated or new sections will be added. The updates will be delivered to you via a free Web Edition of this book, which can be accessed with any Internet connection.

Modern C++ Programming with Test-Driven Development Benjamin-Cummings Publishing Company

A comprehensive guide with practical instructions for learning data structures, low-level programming, high-performance computing, networking and IoT to help you understand the latest standards in C programming such as C11 and C18 Key FeaturesTackle various challenges in C programming by making the most of its latest featuresUnderstand the workings of arrays, strings, functions, pointers, advanced data structures, and algorithmsBecome well-versed with process synchronization during multitasking and server-client process communicationBook Description Used in everything from microcontrollers to operating systems, C is a popular programming language among developers because of its flexibility and versatility. This book helps you get hands-on with various tasks, covering the fundamental as well as complex C programming concepts that are essential for making real-life applications. You'll start with recipes for arrays, strings, user-defined functions, and pre-processing directives. Once you're familiar with the basic features, you'll gradually move on to learning pointers, file handling, concurrency, networking, and inter-process communication (IPC). The book then illustrates how to carry out searching and arrange data using different sorting techniques, before demonstrating the implementation of data structures such as stacks and queues. Later, you'll learn interesting programming features such as using graphics for drawing and animation, and the application of general-purpose utilities. Finally, the book will take you through advanced concepts such as low-level programming, embedded software, IoT, and security in coding, as well as techniques for improving code performance. By the end of this book, you'll have a clear understanding of C programming, and have the skills you need to develop robust apps. What you will learnDiscover how to use arrays, functions, and strings to make large applicationsPerform preprocessing and conditional compilation for efficient programmingUnderstand how to use pointers and memory optimallyUse general-purpose utilities and improve code performanceImplement multitasking using threads and process synchronizationUse low-level programming and the inline assembly languageUnderstand how to use graphics for animationGet to grips with applying security while developing C programsWho this book is for This intermediate-level book is for developers who want to become better C programmers by learning its modern features and programming practices. Familiarity with C programming is assumed to get the most out of this book.

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