

Bjarne Stroustrup C 4th Edition

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Programming in C Stephen G. Kochan 2014-08-18 Programming in C will teach you how to write programs in the C programming language. Whether you're a novice or experienced programmer, this book will provide you with a clear understanding of this language, which is the foundation for many object-oriented programming languages such as C++, Objective-C, C#, and Java. This book teaches C by example, with complete C programs used to illustrate each new concept along the way. Stephen Kochan provides step-by-step explanations for all C functions. You will learn both the language fundamentals and good programming practices. Exercises at the end of each chapter make the book ideally suited for classroom use or for self-instruction. All the features of the C language are covered in this book, including the latest additions added with the C11 standard. Appendixes provide a detailed summary of the language and the standard C library, both organized for quick reference. "Absolutely the best book for anyone starting out programming in C. This is an excellent introductory text with frequent examples and good text....This is the book I used to learn C—it's a great book." –Vinit S. Carpenter, Learn C/C++ Today

Forschung mit modernem C++ Peter Gottschling 2019-07-08 Das Programmieren von C++ ist der schnellste Weg, um das gesamte Spektrum der auf heutiger Hardware verfügbaren Rechenleistung zu nutzen. Dieses Buch behandelt Techniken für das Programmieren von „close to the bare metal“ sowie abstraktere High-Level-Programmierkonstrukte. Es ist speziell für die C++-Programmierung von wissenschaftlichen und technischen Anwendungen konzipiert und führt den Leser zu den anspruchsvolleren Stilen und erweiterten Funktionen, die hierfür nötig sind. Es bietet: - C++-Wissen auf dem neuesten Stand von C++11/14/17 - Entwicklung geeigneter Abstraktionen, um schnell C++-Programme für eine Vielzahl von Problembereichen schreiben zu können - Viele Beispiele unter Verwendung technischer Algorithmen, z.B. Matrix Template Library MTL 4. Das Material des Buches hat sich drei Jahre lang als Vorlesung und noch deutlich länger als Training professioneller Programmierer bewährt. Es deckt inhaltlich ein breites Spektrum ab: von der Tool Chain und dem Build-Prozess bis hin zu Templates, Lambdas und wissenschaftlichen Bibliotheken.

UNIX in a Nutshell Arnold Robbins 1999 A guide to the operating system's commands and options covers new commands, shell syntax, regular expressions, and obsolete terminology

Building Embedded Systems Changyi Gu 2016-05-26 Develop the software and hardware you never think about. We're talking about the nitty-gritty behind the buttons on your microwave, inside your thermostat, inside the keyboard used to type this description, and even running the monitor on which you are reading it now. Such stuff is termed embedded systems, and this book shows how to design and develop embedded systems at a professional level. Because yes, many people quietly make a successful career doing just that. Building embedded systems can be both fun and intimidating. Putting together an embedded system requires skill sets from multiple engineering disciplines, from software and hardware in particular. Building Embedded Systems is a book about helping you do things in the right way from the beginning of your first project: Programmers who know software will learn what they need to know about hardware. Engineers with hardware knowledge likewise will learn about the software side. Whatever your background is, Building Embedded Systems is the perfect book to fill in any knowledge gaps and get you started in a career programming for everyday devices. Author Changyi Gu brings more than fifteen years of experience in working his way up the ladder in the field of embedded systems. He brings knowledge of numerous approaches to embedded systems design, including the System on Programmable Chips (SOPC) approach that is currently growing to dominate the field. His knowledge and experience make Building Embedded Systems an excellent book for anyone wanting to enter the field, or even just to do some embedded programming as a side project. What You Will Learn Program embedded systems at the hardware level Learn current industry practices in firmware development Develop practical knowledge of embedded hardware options Create tight integration between software and hardware Practice a work flow leading to successful outcomes Build from transistor level to the system level Make sound choices between performance and cost Who This Book Is For Embedded-system engineers and intermediate electronics enthusiasts who are seeking tighter integration between software and hardware. Those who favor the System on a Programmable Chip (SOPC) approach will in particular benefit from this book. Students in both Electrical Engineering and Computer Science can also benefit from this book and the real-life industry practice it provides.

Computer Programming with C++ Kunal Pimparkhede 2017-01-26 "Provides an in-depth explanation of the C and C++ programming languages along with the fundamentals of object oriented programming paradigm"--

Intensivkurs C++ - Bafög-Ausgabe Andrew Koenig 2006

High Performance Parallel Runtimes Michael Klemm 2021-02-08 This book focuses on the theoretical and practical aspects of parallel programming systems for today's high performance multi-core processors and discusses the efficient implementation of key algorithms needed to implement parallel programming models. Such implementations need to take into account the specific architectural aspects of the underlying computer architecture and the features offered by the execution environment. This book briefly reviews key concepts of modern computer architecture, focusing particularly on the performance of parallel codes as well as the relevant concepts in parallel programming models. The book then turns towards the fundamental algorithms used to implement the parallel programming models and discusses how they interact with modern processors. While the book will focus on the general mechanisms, we will mostly use

the Intel processor architecture to exemplify the implementation concepts discussed but will present other processor architectures where appropriate. All algorithms and concepts are discussed in an easy to understand way with many illustrative examples, figures, and source code fragments. The target audience of the book is students in Computer Science who are studying compiler construction, parallel programming, or programming systems. Software developers who have an interest in the core algorithms used to implement a parallel runtime system, or who need to educate themselves for projects that require the algorithms and concepts discussed in this book will also benefit from reading it.

Programming Bjarne Stroustrup 2014-06-02 An Introduction to Programming by the Inventor of C++ Preparation for Programming in the Real World The book assumes that you aim eventually to write non-trivial programs, whether for work in software development or in some other technical field. Focus on Fundamental Concepts and Techniques The book explains fundamental concepts and techniques in greater depth than traditional introductions. This approach will give you a solid foundation for writing useful, correct, maintainable, and efficient code. Programming with Today's C++ (C++11 and C++14) The book is an introduction to programming in general, including object-oriented programming and generic programming. It is also a solid introduction to the C++ programming language, one of the most widely used languages for real-world software. The book presents modern C++ programming techniques from the start, introducing the C++ standard library and C++11 and C++14 features to simplify programming tasks. For Beginners—And Anyone Who Wants to Learn Something New The book is primarily designed for people who have never programmed before, and it has been tested with many thousands of first-year university students. It has also been extensively used for self-study. Also, practitioners and advanced students have gained new insight and guidance by seeing how a master approaches the elements of his art. Provides a Broad View The first half of the book covers a wide range of essential concepts, design and programming techniques, language features, and libraries. Those will enable you to write programs involving input, output, computation, and simple graphics. The second half explores more specialized topics (such as text processing, testing, and the C programming language) and provides abundant reference material. Source code and support supplements are available from the author's website.

The Power of C++ Ashley Ehman 2017-12-15 Firefox, Chrome, and Internet Explorer are web browsers that are very different from one another, but they have one big similarity: large elements of each were written in C++. This volume introduces readers to important concepts like object-oriented programming while elaborating on the fascinating history of C++, providing examples of code, and exploring the relationship between C++, C, and C#.

Programming in C++ Laxmisha Rai 2019-05-20 The book presents an up-to-date overview of C++ programming with object-oriented programming concepts, with a wide coverage of classes, objects, inheritance, constructors, and polymorphism. Selection statements, looping, arrays, strings, function sorting and searching algorithms are discussed. With abundant practical examples, the book is an essential reference for researchers, students, and professionals in programming.

Professional C++ Marc Gregoire 2018-03-09 Get up to date quickly on the new changes coming with C++17 Professional C++ is the advanced manual for C++ programming.

Designed to help experienced developers get more out of the latest release, this book skims over the basics and dives right in to exploiting the full capabilities of C++17. Each feature is explained by example, each including actual code snippets that you can plug into your own applications. Case studies include extensive, working code that has been tested on Windows and Linux, and the author's expert tips, tricks, and workarounds can dramatically enhance your workflow. Even many experienced developers have never fully explored the boundaries of the language's capabilities; this book reveals the advanced features you never knew about, and drills down to show you how to turn these features into real-world solutions. The C++17 release includes changes that impact the way you work with C++; this new fourth edition covers them all, including nested namespaces, structured bindings, `string_view`, template argument deduction for constructors, parallel algorithms, generalized sum algorithms, Boyer-Moore string searching, string conversion primitives, a filesystem API, clamping values, optional values, the variant type, the any type, and more. Clear explanations and professional-level depth make this book an invaluable resource for any professional needing to get up to date quickly. Maximize C++ capabilities with effective design solutions Master little-known elements and learn what to avoid Adopt new workarounds and testing/debugging best practices Utilize real-world program segments in your own applications C++ is notoriously complex, and whether you use it for gaming or business, maximizing its functionality means keeping up to date with the latest changes. Whether these changes enhance your work or make it harder depends on how well-versed you are in the newest C++ features. Professional C++ gets you up to date quickly, and provides the answers you need for everyday solutions.

C++ Crash Course Josh Lospinoso 2019-09-24 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 in easy steps, 4th edition* Mike McGrath 2011-05-24 C++**
Programming in easy steps instructs you how to program in the powerful C++ language, giving complete examples that illustrate each aspect with full colour screenshots and colourised code. Now, in its fourth edition, C++ Programming in easy steps begins by explaining how to download and install a free C++ compiler so you can quickly begin to create your own executable programs by copying the book's examples. It demonstrates all the C++ language basics before moving on to provide examples of Object Oriented Programming. The book concludes by demonstrating how you can use your acquired knowledge to create programs graphically in the free Microsoft Visual C++ Express Integrated Development Environment (IDE). C++ Programming in easy steps has an easy-to-follow style that will appeal to anyone who wants to begin programming in C++. It will appeal to programmers moving from another programming language, and to the student who is studying C++ programming at school or college, and to those seeking a career in computing who need a fundamental understanding of object oriented programming.

***Learn Modern C++ and STL* Christophe Pichaud 2021-01-15** The purpose of this book is to learn modern C-. The Modern C is C-11, 14, 17 and 20. Organized in themed chapters, this book allows beginners to edsend the language even by reading the chapters in a different order from that proposed by the author. It is the result of several years of work at the ISO standardization committee level, and the following versions, namely C-14, 17 and 20, are only the result of this effort. It should be noted, however, that C-20 is still partially implemented by market compilers, whether It's Microsoft's Visual C, Clang (LLVM) or CCG. On the cloud, everything is Server oriented and Linux reigns supreme. Whether it's multithread or asynchronous programming, with Docker or Azure, it's all about high-availability or hyper-scalabl environments.

***C++ for the Impatient* Brian Overland 2013-05-08** A Ready Reference for C++ C++ for the Impatient offers both the quickest way for busy programmers to learn the latest features of the C++ language and a handy resource for quickly finding answers to specific language questions. Designed to give you the most accurate and up-to-date information you require fast and to the point, this book is also an essential guide to the new C++11 standard, including advanced uses of the C++ standard library. Features include · Concise descriptions of nearly every function, object, and operator in the C++ core language and standard library, with clear, well-chosen examples for each of them · Information provided “at a glance” through syntax displays, tables, and summaries of important functions · Content organized for quick look-up of needed information · Simple explanations of advanced concepts, using helpful illustrations · Complete program examples that are both useful and intriguing, including puzzles, games, and challenging exercises C++11 features, all covered in the book, include: · Lambdas · rvalue references · Regular-expression library · Randomization library · Hash-table containers · Smart pointers C++ for the Impatient is an ideal resource for anyone who needs to come up to speed quickly on C++11. Whether or not it’s your first C++ book, it will be one you come back to often for reliable answers.

***An Introduction to Numerical Methods in C++* Brian Hilton Flowers 2000** This text on numerical computing, presented through the medium of the C++ language, is designed for students of science and engineering who are serriously studying nummerical methods for the first time. It should also be of interest to computing scientists who

wish to see how C++ can be used in earnest for numerical computation. The mathematical prerequisites are those which an undergraduate student of science or engineering might be expected to possess after the earlier years of study: elementary calculus, linear algebra, and differential equations. In computing, a good knowledge, such as Basic, Fortran, or Pascal, is assumed, while a working knowledge of C would be an advantage. However, no prior knowledge of C++ is assumed. The language is developed in step with its numerical applications. Features of the language not used here are ignored. What remains, however, is a powerful framework for numerical computations and more than enough for an introductory text.

An Introduction to the C++ Programming Language (Version: 2015-02-03) Michael D. Adams 2015-02-03

A Tour of C++ Bjarne Stroustrup 2013-09-16 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.

Praktische C++-Programmierung Steve Oualline 2004

Effektiv C++ programmieren Scott Meyers 2011

Eine Tour durch C++ Bjarne Stroustrup 2015-06-08 EINE TOUR DURCH C++ // - Dieser Leitfaden will Ihnen weder das Programmieren beibringen noch versteht er sich als einzige Quelle, die Sie für die Beherrschung von C++ brauchen – aber diese Tour ist wahrscheinlich die kürzeste oder einfachste Einführung in C++11. - Für C- oder C++-Programmierer, die mit der aktuellen C++-Sprache vertrauter werden wollen - Programmierer, die in einer anderen Sprache versiert sind, erhalten ein genaues Bild vom Wesen und von den Vorzügen des modernen C++ . Mit dem C++11-Standard können Programmierer Ideen klarer, einfacher und direkter auszudrücken sowie schnelleren und effizienteren Code zu schreiben. Bjarne Stroustrup, der Designer und

ursprüngliche Implementierer von C++, erläutert die Details dieser Sprache und ihre Verwendung in seiner umfassenden Referenz „Die C++-Programmiersprache“. In „Eine Tour durch C++“ führt Stroustrup jetzt die Übersichtskapitel aus der Referenz zusammen und erweitert sie so, dass auch erfahrene Programmierer in nur wenigen Stunden eine Vorstellung davon erhalten, was modernes C++ ausmacht. In diesem kompakten und eigenständigen Leitfaden behandelt Stroustrup – neben Grundlagen – die wichtigsten Sprachelemente und die wesentlichen Komponenten der Standardbibliothek. Er präsentiert die C++-Features im Kontext der Programmierstile, die sie unterstützen, wie die objektorientierte und generische Programmierung. Die Tour beginnt bei den Grundlagen und befasst sich dann mit komplexeren Themen, einschließlich vieler, die neu in C++11 sind wie z.B. Verschiebesemantik, einheitliche Initialisierung, Lambda-Ausdrücke, verbesserte Container, Zufallszahlen und Nebenläufigkeit. Am Ende werden Design und Entwicklung von C++ sowie die in C++11 hinzugekommenen Erweiterungen diskutiert. Programmierer erhalten hier – auch anhand von Schlüsselbeispielen – einen sinnvollen Überblick und praktische Hilfe für den Einstieg. **AUS DEM INHALT // Die Grundlagen // Benutzerdefinierte Typen // Modularität // Klassen // Templates // Überblick über die Bibliothek // Strings und reguläre Ausdrücke // E/A-Streams // Container // Algorithmen // Utilities // Numerik // Nebenläufigkeit // Geschichte und Kompatibilität**

Programming Bjarne Stroustrup 2014 An Introduction to Programming by the Inventor of C++ Preparation for Programming in the Real World The book assumes that you aim eventually to write non-trivial programs, whether for work in software development or in some other technical field. **Focus on Fundamental Concepts and Techniques** The book explains fundamental concepts and techniques in greater depth than traditional introductions. This approach will give you a solid foundation for writing useful, correct, maintainable, and efficient code. **Programming with Today's C++ (C++11 and C++14)** The book is an introduction to programming in general, including object-oriented programming and generic programming. It is also a solid introduction to the C++ programming language, one of the most widely used languages for real-world software. The book presents modern C++ programming techniques from the start, introducing the C++ standard library and C++11 and C++14 features to simplify programming tasks. **For Beginners--And Anyone Who Wants to Learn Something New** The book is primarily designed for people who have never programmed before, and it has been tested with many thousands of first-year university students. It has also been extensively used for self-study. Also, practitioners and advanced students have gained new insight and guidance by seeing how a master approaches the elements of his art. **Provides a Broad View** The first half of the book covers a wide range of essential concepts, design and programming techniques, language features, and libraries. Those will enable you to write programs involving input, output, computation, and simple graphics. The second half explores more specialized topics (such as text processing, testing, and the C programming language) and provides abundant reference material. Source code and support supplements are available from the author's website.

A Tour of C++ Bjarne Stroustrup 2018-07-20 In A Tour of C++, Second Edition, Bjarne Stroustrup, the creator of C++, describes what constitutes modern C++. This concise, self-contained guide 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++17, such as move semantics, uniform initialization, lambda expressions, improved containers, random numbers, and concurrency. The tour even covers some extensions being made for C++20, such as concepts and modules, and ends with a discussion of the design and evolution of C++. This guide does not aim to teach you how to program (for that, see Stroustrup's *Programming: Principles and Practice Using C++*, Second Edition), nor will it be the only resource you'll need for C++ mastery (for that, see Stroustrup's *The C++ Programming Language*, Fourth Edition, and recommended online sources). 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.

New programming languages for novices and experts (fourth edition) b Davin Pearson
The C++ Programming Language Bjarne Stroustrup 2000 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++.

Data Structures & Algorithm Analysis in C++ Clifford A. Shaffer 2011-01-01 A comprehensive treatment focusing on the creation of efficient data structures and algorithms, this text explains how to select or design the data structure best suited to specific problems. It uses C++ as the programming language and is suitable for second-year data structure courses and computer science courses in algorithmic analysis.

Basic in c programming Er. JAWAD AHMAD DAR 2017-02-09

Exploring Raspberry Pi Derek Molloy 2016-06-13 Expand Raspberry Pi capabilities with fundamental engineering principles Exploring Raspberry Pi is the innovators guide to bringing Raspberry Pi to life. This book favors engineering principles over a 'recipe' approach to give you the skills you need to design and build your own projects. You'll understand the fundamental principles in a way that transfers to any type of electronics, electronic modules, or external peripherals, using a "learning by doing" approach that caters to both beginners and experts. The book begins with basic Linux and programming skills, and helps you stock your inventory with common parts and supplies. Next, you'll learn how to make parts work together to achieve the goals of your project, no matter what type of components you use. The companion website provides a full repository that structures all of the code and scripts, along with links to video tutorials and supplementary content that takes you deeper into your project. The Raspberry Pi's most famous feature is its adaptability. It can be used for thousands of electronic applications, and using the Linux OS expands the functionality even more. This book helps you get the most from your Raspberry Pi, but it also gives you the fundamental engineering skills you need to incorporate any electronics into any project. Develop the Linux and programming skills you need to build basic applications Build your inventory of parts so you can always "make it work" Understand interfacing,

controlling, and communicating with almost any component Explore advanced applications with video, audio, real-world interactions, and more Be free to adapt and create with Exploring Raspberry Pi.

Die C++-Programmiersprache Bjarne Stroustrup 2015-04-02 C++11 ist da! Mit dem richtungsweisenden neuen Handbuch von C++-Erfinder Bjarne Stroustrup, Die C++-Programmiersprache, 4. Auflage, lernen Sie, diese Sprache zu meistern! Die brandneue Ausgabe des weltweit renommiertesten und meistgelesenen Handbuchs zu C++ wurde umfassend auf den lange erwarteten Standard C++11 aktualisiert. Stroustrup hat dieses Werk weitgehend überarbeitet, um die Sprache C++11, die Standardbibliothek und die Schlüsselentwurfstechniken als geschlossenes Ganzes darzustellen. Er widmet sich ausführlich den Änderungen, die bei C++11 das Gefühl einer ganz neuen Sprache aufkommen lassen und bietet dabei eine kompetente Anleitung, um von den Verbesserungen der Sprache hinsichtlich Performance, Zuverlässigkeit und Klarheit zu profitieren. C++-Programmierer auf der ganzen Welt schätzen Bjarne Stroustrup als DEN Experten für die absolut verlässlichen und außerordentlich nützlichen Informationen, die sie brauchen, um perfekte C++-Programme zu schreiben. Wenn jetzt C++11-Compiler zur Verfügung stehen und Entwicklungsunternehmen auf den neuen Standard übergehen, wissen sie genau, wohin sie sich wie gewohnt wenden können: Stroustrup's Die C++-Programmiersprache, 4. Auflage.

Exceptional C++. Herb Sutter 2000

From Mathematics to Generic Programming Alexander A. Stepanov 2014-11-13 In this substantive yet accessible book, pioneering software designer Alexander Stepanov and his colleague Daniel Rose illuminate the principles of generic programming and the mathematical concept of abstraction on which it is based, helping you write code that is both simpler and more powerful. If you're a reasonably proficient programmer who can think logically, you have all the background you'll need. Stepanov and Rose introduce the relevant abstract algebra and number theory with exceptional clarity. They carefully explain the problems mathematicians first needed to solve, and then show how these mathematical solutions translate to generic programming and the creation of more effective and elegant code. To demonstrate the crucial role these mathematical principles play in many modern applications, the authors show how to use these results and generalized algorithms to implement a real-world public-key cryptosystem. As you read this book, you'll master the thought processes necessary for effective programming and learn how to generalize narrowly conceived algorithms to widen their usefulness without losing efficiency. You'll also gain deep insight into the value of mathematics to programming—insight that will prove invaluable no matter what programming languages and paradigms you use. You will learn about How to generalize a four thousand-year-old algorithm, demonstrating indispensable lessons about clarity and efficiency Ancient paradoxes, beautiful theorems, and the productive tension between continuous and discrete A simple algorithm for finding greatest common divisor (GCD) and modern abstractions that build on it Powerful mathematical approaches to abstraction How abstract algebra provides the idea at the heart of generic programming Axioms, proofs, theories, and models: using mathematical techniques to organize knowledge about your algorithms and data structures Surprising subtleties of simple programming tasks and what you can learn from them

How practical implementations can exploit theoretical knowledge

Games in Libraries Breanne A. Kirsch 2014-02-01 Librarians are beginning to see the importance of game based learning and the incorporation of games into library services. This book is written for them—so they can use games to improve people's understanding and enjoyment of the library. Full of practical suggestions, the essays discuss not only innovative uses of games in libraries but also the game making process. The contributors are all well versed in games and game-based learning and a variety of different types of libraries are considered. The essays will inspire librarians and educators to get into this exciting new area of patron and student services.

Computer Science with MATHEMATICA® Roman Maeder 2000-02-28 This introductory course shows scientists and engineers how Mathematica can be used to do scientific computations.

C++ Toolkit for Engineers and Scientists James T. Smith 2013-03-09 This concise guide covers the fundamental aspects of the numerical analysis, basing upon it the construction of its routines for solving nonlinear equations, linear and nonlinear systems of equations, and eigenvalue problems. Focusing on software development, this book emphasizes software tools, OOP techniques for handling vectors, polynomials, and matrices. Using actual examples to demonstrate reusable tools, the book enables readers to solve broad classes of software development and programming challenges. It adopts a balanced approach between OOP techniques and quick and dirty number crunching, and emphasizes the use of OOP features in implementing vector, polynomial and matrix algebra. As a practical reference, it will help developers and consultants setting up applications programs for electrical, electronic engineering and physical sciences who need to develop clean, efficient C++ programs in minimal time.

Complete Maya Programming David Gould 2003 "David Gould is an expert at using, programming, and teaching Maya, and it shows. People who need to program Maya will find this book essential. Even Maya users who don't intend to do extensive programming should read this book for a better understanding of what's going on under the hood. Compact yet thorough, it covers both MEL and the C++ API, and is written to be informative for both novice and expert programmers. Highly recommended!" -Larry Gritz, Exluna/NVIDIA, co-author of *Advanced RenderMan: Creating CGI for Motion Pictures* "This book should be required reading for all Maya programmers, novice and expert alike. For the novice, it provides a thorough and wonderfully well thought-out hands-on tutorial and introduction to Maya. The book's greatest contribution, however, is that in it David shares his deep understanding of Maya's fundamental concepts and architecture, so that even the expert can learn to more effectively exploit Maya's rich and powerful programming interfaces." -Philip J. Schneider, Disney Feature Animation, co-author of *Geometric Tools for Computer Graphics* "Having provided a technical review of David Gould's *Complete Maya Programming*, I must say that this book is the definitive text for scripting and plug-in development for Maya. Never before has there been such a concise and clearly written guide to programming for Maya. Any user smart enough to pick up this book would be better off for it." -Chris Rock, a Technical Director at "a Large Animation Studio in Northern California" "If you ever wanted to open the Maya toolbox, this is your guide. With clear step-by-step instructions, you will soon be able to customize and improve

the application, as well as create your own extensions, either through the MEL scripting language or the full C++ API." -Christophe Hery, Industrial Light & Magic Learning Maya, the world's leading 3D animation and effects package, is a challenge, especially for those who want to master Maya's versatile programming features in addition to its built-in tools. Finally, here is a practical, step-by-step guide that shows how to use Maya to its fullest potential, beginning with the basics. Readers of Complete Maya Programming will first gain a thorough understanding of Maya's inner workings, and then learn how to customize and extend Maya with scripts and plugins that take control and productivity to new levels. Users new to programming can apply Maya's easy scripting language MEL (Maya Embedded Language), while more advanced users can work with the C++ API (Application Programming Interface). Both a fundamental tutorial for Maya beginners and a solid reference for experienced developers, Complete Maya Programming is every user's guide to Maya mastery. FEATURES: *Demonstrates how to use MEL to control Maya, customize its interface, automate procedures, and more *Details how to use the C++ API to modify Maya functionality and develop tools and features to meet any need *Explains when to use MEL, when to use the C++ API, and how to use them together *Provides a multitude of real-world examples illustrating applications of Maya programming *Ideal for technical directors, developers, or anyone wishing to master Maya *Provides a storehouse of MEL scripts and C++ source code, glossary, and list of resources, available at www.davidgould.com

C++: The Complete Reference, 4th Edition Herbert Schildt 2002-12-10 Best-selling genius Herb Schildt covers everything from keywords, syntax, and libraries, to advanced features such as overloading, inheritance, virtual functions, namespaces, templates, and RTTI—plus, a complete description of the Standard Template Library (STL).

Einführung in die Programmierung mit C++ Bjarne Stroustrup 2010

C++ for dinosaurs: Guide for readable, maintainable, reusable and faster code Nick Economidis 2014-07-30 This is a guide for creating readable, maintainable, reusable and faster code. No object oriented programming is involved. Out of all techniques which aim to improve your product's quality, readability has the highest return on effort. - Quality: Bugs are found mostly by reviewing other people's code. You can't review somebody else's code if you cannot read it. Bugs are not found by unit-tests, because unit-tests are created to capture errors that are known to exist. - Efficiency: Maintenance takes about 80% of developers' time. Therefore, spending some time in writing better code will save you more time during maintenance. - Performance: Unreadable code is difficult to reason about. Any opportunities for optimisation that may exist are often impossible to spot. The six techniques described are easy, therefore: - students can apply them - C programmers can follow it without changing programming paradigm - you can write idiomatic C++, instead of writing like C, Java, or Fortran.

C++ Quiz Book S.R. Subramanya 2021-04-12 This is a quick assessment book / quiz book. It has a vast collection of over 1,000 short questions, with answers and programs, on C++ programming language. The topical coverage includes data types, control structures, arrays, pointers and reference, classes and objects, inheritance and polymorphism, exception handling, and stream and text I/O.

C++ Primer Stanley B. Lippman 2006

bjarne-stroustrup-c-4th-edition

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