

C In Depth

Software -- Programming Languages.

The new edition of this classic O'Reilly reference provides clear, detailed explanations of every feature in the C language and runtime library, including multithreading, type-generic macros, and library functions that are new in the 2011 C standard (C11). If you want to understand the effects of an unfamiliar function, and how the standard library requires it to behave, you'll find it here, along with a typical example. Ideal for experienced C and C++ programmers, this book also includes popular tools in the GNU software collection. You'll learn how to build C programs with GNU Make, compile executable programs from C source code, and test and debug your programs with the GNU debugger. In three sections, this authoritative book covers: C language concepts and language elements, with separate chapters on types, statements, pointers, memory management, I/O, and more The C standard library, including an overview of standard headers and a detailed function reference Basic C programming tools in the GNU software collection, with instructions on how use them with the Eclipse IDE

Unlock the groundbreaking advances of deep learning with this extensively revised new edition of the bestselling original. Learn directly from the creator of Keras and master practical Python deep learning techniques that are easy to apply in the real world. In Deep Learning with Python, Second Edition you will learn: Deep learning from first principles Image

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classification and image segmentation Timeseries forecasting Text classification and machine translation Text generation, neural style transfer, and image generation Deep Learning with Python has taught thousands of readers how to put the full capabilities of deep learning into action. This extensively revised second edition introduces deep learning using Python and Keras, and is loaded with insights for both novice and experienced ML practitioners. You'll learn practical techniques that are easy to apply in the real world, and important theory for perfecting neural networks.

Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

About the technology Recent innovations in deep learning unlock exciting new software capabilities like automated language translation, image recognition, and more. Deep learning is quickly becoming essential knowledge for every software developer, and modern tools like Keras and TensorFlow put it within your reach—even if you have no background in mathematics or data science. This book shows you how to get started.

About the book Deep Learning with Python, Second Edition introduces the field of deep learning using Python and the powerful Keras library. In this revised and expanded new edition, Keras creator François Chollet offers insights for both novice and experienced machine learning practitioners. As you move through this book, you'll build your understanding through intuitive explanations, crisp illustrations, and clear examples. You'll quickly pick up the skills you need to start developing deep-learning applications. What's inside

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Deep learning from first principles Image classification and image segmentation Time series forecasting Text classification and machine translation Text generation, neural style transfer, and image generation About the reader For readers with intermediate Python skills. No previous experience with Keras, TensorFlow, or machine learning is required. About the author François Chollet is a software engineer at Google and creator of the Keras deep-learning library. Table of Contents 1 What is deep learning? 2 The mathematical building blocks of neural networks 3 Introduction to Keras and TensorFlow 4 Getting started with neural networks: Classification and regression 5 Fundamentals of machine learning 6 The universal workflow of machine learning 7 Working with Keras: A deep dive 8 Introduction to deep learning for computer vision 9 Advanced deep learning for computer vision 10 Deep learning for timeseries 11 Deep learning for text 12 Generative deep learning 13 Best practices for the real world 14 Conclusions

Extraordinary Popular Delusions and the Madness of Crowds is a study of crowd psychology by Scottish journalist Charles Mackay. The subjects of Mackay's debunking include witchcraft, alchemy, crusades, duels, economic bubbles, fortune-telling, haunted houses, the Drummer of Tedworth, the influence of politics and religion on the shapes of beards and hair, magnetizers (influence of imagination in curing disease), murder through poisoning, prophecies, popular admiration of great thieves, popular follies of great cities, and relics. Contents: Volume 1: National Delusions: The Mississippi Scheme The South Sea Bubble The Tulipomania Relics

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Modern Prophecies Popular Admiration for Great Thieves Influence of Politics and Religion on the Hair and Beard Duels and Ordeals The Love of the Marvellous and the Disbelief of the True Popular Follies in Great Cities Old Price Riots The Thugs, or Phansigars Volume 2: Peculiar Follies: The Crusades The Witch Mania The Slow Poisoners Haunted Houses Volume 3: Philosophical Delusions : The Alchemysts Fortune Telling The Magnetisers

If you think "Modern" and "C" don't belong in the same sentence, think again. The C standards committee actively reviews and extends the language, with updated published C standards as recently as 2018. In Modern C, author Jens Gustedt teaches you the skills and features you need to write relevant programs in this tried-and-true language, including Linux and Windows, device drivers, web servers and browsers, smartphones, and much more! Modern C teaches you to take your C programming skills to new heights, whether you're just starting out with C or have more extensive experience. Organized by level, this comprehensive guide lets you jump in where it suits you best while still reaping the maximum benefits. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

Finally, a great introduction to ANCI C++ for working programmers! Lippmann--who worked under the leadership of Bjarne Stroustrup, wrote the classic "C++ Primer", and now works as a C++ programmer at DreamWorks--teaches programmers exactly what they need to know to get immediate results. From start to

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finish, each concept and technique is presented through real programs designed to solve the problems C++ programmers are most likely to encounter.

A detailed introduction to the C programming language for experienced programmers. The world runs on code written in the C programming language, yet most schools begin the curriculum with Python or Java. *Effective C* bridges this gap and brings C into the modern era--covering the modern C17 Standard as well as potential C2x features. With the aid of this instant classic, you'll soon be writing professional, portable, and secure C programs to power robust systems and solve real-world problems. Robert C. Seacord introduces C and the C Standard Library while addressing best practices, common errors, and open debates in the C community. Developed together with other C Standards committee experts, *Effective C* will teach you how to debug, test, and analyze C programs. You'll benefit from Seacord's concise explanations of C language constructs and behaviors, and from his 40 years of coding experience. You'll learn:

- How to identify and handle undefined behavior in a C program
- The range and representations of integers and floating-point values
- How dynamic memory allocation works and how to use nonstandard functions
- How to use character encodings and types
- How to perform I/O with terminals and filesystems using C Standard streams and POSIX file descriptors
- How to understand the C compiler's translation phases and the role of the preprocessor
- How to test, debug, and analyze C programs

Effective C will teach you how to write professional, secure, and

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portable C code that will stand the test of time and help strengthen the foundation of the computing world. Summary Scala in Depth is a unique new book designed to help you integrate Scala effectively into your development process. By presenting the emerging best practices and designs from the Scala community, it guides you through dozens of powerful techniques example by example. About the Book Scala is a powerful JVM language that blends the functional and OO programming models. You'll have no trouble getting introductions to Scala in books or online, but it's hard to find great examples and insights from experienced practitioners. You'll find them in Scala in Depth. There's little heavy-handed theory here—just dozens of crisp, practical techniques for coding in Scala. Written for readers who know Java, Scala, or another OO language. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside Concise, expressive, and readable code style How to integrate Scala into your existing Java projects Scala's 2.8.0 collections API How to use actors for concurrent programming Mastering the Scala type system Scala's OO features—type member inheritance, multiple inheritance, and composition Functional concepts and patterns—immutability, applicative functors, and monads =====?===== Table of Contents Scala—a blended language The core rules Modicum of style—coding conventions Utilizing object orientation Using implicits to write expressive code The type system Using implicits and

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types together Using the right collection Actors
Integrating Scala with Java Patterns in functional
programming

As scientific and engineering projects grow larger and more complex, it is increasingly likely that those projects will be written in C++. With embedded hardware growing more powerful, much of its software is moving to C++, too.

Mastering C++ gives you strong skills for programming at nearly every level, from “close to the hardware” to the highest-level abstractions. In short, C++ is a language that scientific and technical practitioners need to know. Peter Gottschling’s *Discovering Modern C++* is an intensive introduction that guides you smoothly to sophisticated approaches based on advanced features. Gottschling introduces key concepts using examples from many technical problem domains, drawing on his extensive experience training professionals and teaching C++ to students of physics, math, and engineering. This book is designed to help you get started rapidly and then master increasingly robust features, from lambdas to expression templates. You’ll also learn how to take advantage of the powerful libraries available to C++ programmers: both the Standard Template Library (STL) and scientific libraries for arithmetic, linear algebra, differential equations, and graphs. Throughout, Gottschling demonstrates how to write clear and expressive software using object orientation, generics, metaprogramming, and procedural techniques. By the time you’re finished, you’ll have mastered all the abstractions you need to write C++ programs with exceptional quality and performance.

This book is written in very simple manner and is very easy to understand. It describes the theory with examples step by step. It contains the description of writing these steps in

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programs in very easy and understandable manner. The book gives full understanding of each theoretical topic and easy implementation in programming. This book will help the students in Self-Learning of Data structures and in understanding how these concepts are implemented in programs. This book is useful for any level of students. It covers the syllabus of B.E. ,B.Tech, DOEACC Society, IGNOU.

Pointers On C brings the power of pointers to your C programs. Designed for professionals and advanced students, Pointers on C provides a comprehensive resource for those needing in-depth coverage of the C programming language. An extensive explanation of pointer basics and a thorough exploration of their advanced features allows programmers to incorporate the power of pointers into their C programs. Complete coverage, detailed explanations of C programming idioms, and thorough discussion of advanced topics makes Pointers on C a valuable tutorial and reference for students and professionals alike. Highlights: Provides complete background information needed for a thorough understanding of C. Covers pointers thoroughly, including syntax, techniques for their effective use and common programming idioms in which they appear. Compares different methods for implementing common abstract data structures. Offers an easy, conversant writing style to clearly explain difficult topics, and contains numerous illustrations and diagrams to help visualize complex concepts. Includes Programming Tips, discussing efficiency, portability, and software engineering issues, and warns of common pitfalls using Caution! Sections. Describes every function on the standard C library. 0673999866B04062001

Culture and Leadership Across the World: The GLOBE Book of In-Depth Studies of 25 Societies is the second major publication of GLOBE (Global Leadership and Organizational

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Behavior Effectiveness), a groundbreaking, large-scale project on international management research featuring contributions from nearly 18,000 middle managers from 1,000 organizations in 62 countries, perhaps the largest project of its kind ever undertaken. This volume effectively presents a complex collection of global research addressing the culture of particular countries, leadership qualities within those countries, and recommendations on how managers should conduct business in countries other than their own. A massive effort with a cross-cultural focus and broad international appeal, this book explores: how leadership is conceptualized and enacted in its cultural milieu; quantitative data including middle manager questionnaires, unobtrusive measurement, and participant observation data; qualitative research from interviews, focus groups, and media analyses; and theoretical and methodological pitfalls that arise in the effort to develop universal management theories. This book is a coherent and well-organized presentation of the findings of the GLOBE Project and will appeal to scholars in leadership, management, international business, cultural studies; and also to practicing managers.

Like it or not, JavaScript is everywhere these days—from browser to server to mobile—and now you, too, need to learn the language or dive deeper than you have. This concise book guides you into and through JavaScript, written by a veteran programmer who once found himself in the same position. Speaking JavaScript helps you approach the language with four standalone sections. First, a quick-start guide teaches you just enough of the language to help you be productive right away. More experienced JavaScript programmers will find a complete and easy-to-read reference that covers each language feature in depth. Complete contents include: JavaScript quick start: Familiar with object-oriented programming? This part helps you learn JavaScript

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quickly and properly. JavaScript in depth: Learn details of ECMAScript 5, from syntax, variables, functions, and object-oriented programming to regular expressions and JSON with lots of examples. Pick a topic and jump in. Background: Understand JavaScript's history and its relationship with other programming languages. Tips, tools, and libraries: Survey existing style guides, best practices, advanced techniques, module systems, package managers, build tools, and learning resources.

This book presents an introduction to the C programming language, featuring a structured approach and aimed at professionals and students with some experience of high-level languages. Features *includes embedded summary material in bulleted form *highlights common traps and pitfalls in C programming.

Description: The Book explains each topic in depth without compromising the lucidity of the text and programs. This approach makes this book suitable for both novices and advanced programmers; the well-structured programs are easily understandable by the beginners and useful for the experienced programmers. The book can be used as tool for self-study as it provides step by step explanation and comes with solutions of all exercises. It explains all the basic concepts and doesn't assume that you know how to program. New features in the 3rd edition include a chapter on Recursion, thorough explanation of Bitwise Manipulation, new and improved programming examples, lots of new exercises ranging in difficulty, solutions to all the exercises and a CD that includes the code of all the programming examples and exercises. The book contains about 310 well explained programming examples to drive the concepts home and nearly 450 exercises which include many interesting and challenging programming exercises that will help you to sharpen your programming skill. The chapter on project

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development and library creation can help students in implementing their knowledge. Table Of Contents: Chapter 1 : Introduction Chapter 2 : Elements of C Chapter 3 : Input-Output in C Chapter 4 : Operators and Expressions Chapter 5 : Control Statements Chapter 6 : Functions Chapter 7 : Recursion Chapter 8 : Arrays Chapter 9 : Pointers Chapter 10 : Strings Chapter 11 : Structure and Union Chapter 12 : Files Chapter 13 : The C Preprocessor Chapter 14 : Operations on Bits Chapter 15 : Miscellaneous Features Chapter 16 : Building Project and Creation of Library Chapter 17 : Code Optimization in C Chapter 18 : C and Assembly Interaction Chapter 19 : Library Functions Solutions

Haskell in Depth unlocks a new level of skill with this challenging language. Going beyond the basics of syntax and structure, this book opens up critical topics like advanced types, concurrency, and data processing. Summary Turn the corner from “Haskell student” to “Haskell developer.”

Haskell in Depth explores the important language features and programming skills you’ll need to build production-quality software using Haskell. And along the way, you’ll pick up some interesting insights into why Haskell looks and works the way it does. Get ready to go deep! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Software for high-precision tasks like financial transactions, defense systems, and scientific research must be absolutely, provably correct. As a purely functional programming language, Haskell enforces a mathematically rigorous approach that can lead to concise, efficient, and bug-free code. To write such code you’ll need deep understanding. You can get it from this book! About the book Haskell in Depth unlocks a new level of skill with this challenging language. Going beyond the basics of syntax and structure, this book opens up critical topics like advanced types, concurrency, and data

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processing. You'll discover key parts of the Haskell ecosystem and master core design patterns that will transform how you write software. What's inside Building applications, web services, and networking apps Using sophisticated libraries like lens, singletons, and servant Organizing projects with Cabal and Stack Error-handling and testing Pure parallelism for multicore processors About the reader For developers familiar with Haskell basics. About the author Vitaly Bragilevsky has been teaching Haskell and functional programming since 2008. He is a member of the GHC Steering Committee. Table of Contents PART 1 CORE HASKELL 1 Functions and types 2 Type classes 3 Developing an application: Stock quotes PART 2 INTRODUCTION TO APPLICATION DESIGN 4 Haskell development with modules, packages, and projects 5 Monads as practical functionality providers 6 Structuring programs with monad transformers PART 3 QUALITY ASSURANCE 7 Error handling and logging 8 Writing tests 9 Haskell data and code at run time 10 Benchmarking and profiling PART 4 ADVANCED HASKELL 11 Type system advances 12 Metaprogramming in Haskell 13 More about types PART 5 HASKELL TOOLKIT 14 Data-processing pipelines 15 Working with relational databases 16 Concurrency

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

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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.

Effective techniques and experienced insights to maximize your C# 6 and 7 programming skills
Key Features
Written by C# legend and top StackOverflow contributor Jon Skeet
Unlock the new features of C# 6

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and 7 Insights on the future of the C# language Master asynchronous functions, interpolated strings, tuples, and more Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. "An excellent overview of C# with helpful and realistic examples that make learning the newest features of C# easy." —Meredith Godar About The Book C# is the foundation of .NET development. New features added in C# 6 and 7 make it easier to take on big data applications, cloud-centric web development, and cross-platform software using .NET Core. Packed with deep insight from C# guru Jon Skeet, this book takes you deep into concepts and features other C# books ignore. C# in Depth, Fourth Edition is an authoritative and engaging guide that reveals the full potential of the language, including the new features of C# 6 and 7. It combines deep dives into the C# language with practical techniques for enterprise development, web applications, and systems programming. As you absorb the wisdom and techniques in this book, you'll write better code, and become an exceptional troubleshooter and problem solver. What You Will Learn Comprehensive guidance on the new features of C# 6 and 7 Important legacies and greatest hits of C# 2–5 Expression-bodied members Extended pass-by-reference functionality Writing asynchronous C# code String interpolation Composition with tuples Decomposition and pattern matching This Book Is Written For For intermediate C# developers. About The Author Jon Skeet is a senior software engineer at Google. He studied mathematics and computer science at Cambridge, is a recognized

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authority in Java and C#, and maintains the position of top contributor to Stack Overflow. Table of Contents 1. Survival of the sharpest 2. C# 2 3. C# 3: LINQ and everything that comes with it 4. C# 4: Improving interoperability 5. Writing asynchronous code 6. Async implementation 7. C# 5 bonus features 8. Super-sleek properties and expression-bodied members 9. Stringy features 10. A smörgåsbord of features for concise code 11. Composition using tuples 12. Deconstruction and pattern matching 13. Improving efficiency with more pass by reference 14. Concise code in C# 7 15. C# 8 and beyond PART 1 C# IN CONTEXT PART 2 C# 2–5 PART 3 C# 6 PART 4 C# 7 AND BEYOND

Radically improve your testing practice and software quality with new testing styles, good patterns, and reliable automation. Key Features A practical and results-driven approach to unit testing Refine your existing unit tests by implementing modern best practices Learn the four pillars of a good unit test Safely automate your testing process to save time and money Spot which tests need refactoring, and which need to be deleted entirely Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About The Book Great testing practices maximize your project quality and delivery speed by identifying bad code early in the development process. Wrong tests will break your code, multiply bugs, and increase time and costs. You owe it to yourself—and your projects—to learn how to do excellent unit testing. Unit Testing Principles, Patterns and Practices teaches you to design and write tests that target key areas of your code including the

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domain model. In this clearly written guide, you learn to develop professional-quality tests and test suites and integrate testing throughout the application life cycle. As you adopt a testing mindset, you'll be amazed at how better tests cause you to write better code. What You Will Learn Universal guidelines to assess any unit test Testing to identify and avoid anti-patterns Refactoring tests along with the production code Using integration tests to verify the whole system This Book Is Written For For readers who know the basics of unit testing.

Examples are written in C# and can easily be applied to any language. About the Author Vladimir Khorikov is an author, blogger, and Microsoft MVP. He has mentored numerous teams on the ins and outs of unit testing.

Table of Contents: PART 1 THE BIGGER PICTURE 1 | The goal of unit testing 2 | What is a unit test? 3 | The anatomy of a unit test PART 2 MAKING YOUR TESTS WORK FOR YOU 4 | The four pillars of a good unit test 5 | Mocks and test fragility 6 | Styles of unit testing 7 | Refactoring toward valuable unit tests PART 3 INTEGRATION TESTING 8 | Why integration testing? 9 | Mocking best practices 10 | Testing the database PART 4 UNIT TESTING ANTI-PATTERNS 11 | Unit testing anti-patterns

Consistent, high-quality coding standards improve software quality, reduce time-to-market, promote teamwork, eliminate time wasted on inconsequential matters, and simplify maintenance. Now, two of the world's most respected C++ experts distill the rich collective experience of the global C++ community into a set of coding standards that every developer and

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development team can understand and use as a basis for their own coding standards. The authors cover virtually every facet of C++ programming: design and coding style, functions, operators, class design, inheritance, construction/destruction, copying, assignment, namespaces, modules, templates, genericity, exceptions, STL containers and algorithms, and more. Each standard is described concisely, with practical examples. From type definition to error handling, this book presents C++ best practices, including some that have only recently been identified and standardized--techniques you may not know even if you've used C++ for years. Along the way, you'll find answers to questions like What's worth standardizing--and what isn't? What are the best ways to code for scalability? What are the elements of a rational error handling policy? How (and why) do you avoid unnecessary initialization, cyclic, and definitional dependencies? When (and how) should you use static and dynamic polymorphism together? How do you practice "safe" overriding? When should you provide a no-fail swap? Why and how should you prevent exceptions from propagating across module boundaries? Why shouldn't you write namespace declarations or directives in a header file? Why should you use STL vector and string instead of arrays? How do you choose the right STL search or sort algorithm? What rules should you follow to ensure type-safe code? Whether you're working alone or with others, C++ Coding Standards will help you write cleaner code--and write it faster, with fewer hassles and less frustration.

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Essential C Programming Skills-Made Easy–Without Fear! Write powerful C programs...without becoming a technical expert! This book is the fastest way to get comfortable with C, one incredibly clear and easy step at a time. You'll learn all the basics: how to organize programs, store and display data, work with variables, operators, I/O, pointers, arrays, functions, and much more. C programming has never been this simple! This C Programming book gives a good start and complete introduction for C Programming for Beginner's. Learn the all basics and advanced features of C programming in no time from Bestselling Programming Author Harry. H. Chaudhary. This Book, starts with the basics; I promise this book will make you 100% expert level champion of C Programming. This book contains 1000+ Live C Program's code examples, and 500+ Lab Exercise & 200+ Brain Wash Topic-wise Code book and 20+ Live software Development Project's. All what you need ! Isn't it ? Write powerful C programs...without becoming a technical expert! This book is the fastest way to get comfortable with C, one incredibly clear and easy step at a time. You'll learn all the basics: how to organize programs, store and display data, work with variables, operators, I/O, pointers, arrays, functions, and much more. (See Below List)C programming has never been this simple! Who knew how simple C programming could be? This is today's best beginner's guide to writing C programs—and to learning skills you can use with practically any language. Its simple, practical instructions will help you start creating useful, reliable C code. This book covers common core syllabus for BCA,

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MCA, B.TECH, BS (CS), MS (CS), BSC-IT (CS), MSC-IT (CS), and Computer Science Professionals as well as for Hackers. This Book is very serious C Programming stuff: A complete introduction to C Language. You'll learn everything from the fundamentals to advanced topics. If you've read this book, you know what to expect a visually rich format designed for the way your brain works. If you haven't, you're in for a treat. You'll see why people say it's unlike any other C book you've ever read. Learning a new language is no easy. You might think the problem is your brain. It seems to have a mind of its own, a mind that doesn't always want to take in the dry, technical stuff you're forced to study. The fact is your brain craves novelty. It's constantly searching, scanning, waiting for something unusual to happen. After all, that's the way it was built to help you stay alive. It takes all the routine, ordinary, dull stuff and filters it to the background so it won't interfere with your brain's real work--recording things that matter. How does your brain know what matters? (A) 1000+ Live C Program's code examples, (B) 500+ Lab Exercises, (C) 200+ Brain Wash Topic-wise Code (D) 20+ Live software Development Project's. (E) Learn Complete C- without fear, . || Inside Chapters. || 1. Preface – Page-6, || Introduction to C. 2. Elements of C Programming Language. 3. Control statements (conditions). 4. Control statements (Looping). 5. One dimensional Array. 6. Multi-Dimensional Array. 7. String (Character Array). 8. Your Brain on Functions. 9. Your Brain on Pointers. 10. Structure, Union, Enum, Bit Fields, Typedef. 11. Console Input and Output. 12. File Handling In C. 13. Miscellaneous Topics. 14. Storage

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Class. 15. Algorithms. 16. Unsolved Practical Problems. 17. PART-II-120+ Practical Code Chapter-Wise. 18. Creating & Inserting own functions in Library. 19. Graphics Programming In C. 20. Operating System Development –Intro. 21. C Programming Guidelines. 22. Common C Programming Errors. 23. Live Software Development Using C.

A guide to the key topics of C# covers such topics as lambda expressions, LINQ, generics, nullable types, iterators, and extension methods.

This book is designed for a one-semester operating-systems course for advanced undergraduates and beginning graduate students. Prerequisites for the course generally include an introductory course on computer architecture and an advanced programming course. The goal of this book is to bring together and explain current practice in operating systems. This includes much of what is traditionally covered in operating-system textbooks: concurrency, scheduling, linking and loading, storage management (both real and virtual), file systems, and security. However, the book also covers issues that come up every day in operating-systems design and implementation but are not often taught in undergraduate courses. For example, the text includes: Deferred work, which includes deferred and asynchronous procedure calls in Windows, tasklets in Linux, and interrupt threads in Solaris. The intricacies of thread switching, on both uniprocessor and multiprocessor systems. Modern file systems, such as ZFS and WAFL. Distributed file systems, including CIFS and NFS version 4. The book and its accompanying

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significant programming projects make students come to grips with current operating systems and their major operating-system components and to attain an intimate understanding of how they work.

Summary Now updated for Swift 5! Swift is more than just a fun language to build iOS applications with. It features a host of powerful tools that, if effectively used, can help you create even better apps with clean, crystal-clear code and awesome features. Swift in Depth is designed to help you unlock these tools and quirks and get developing next-gen apps, web services, and more! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

About the Technology It's fun to create your first toy iOS or Mac app in Swift. Writing secure, reliable, professional-grade software is a different animal altogether. The Swift language includes an amazing set of high-powered features, and it supports a wide range of programming styles and techniques. You just have to roll up your sleeves and learn Swift in depth.

About the Book Swift in Depth guides you concept by concept through the skills you need to build professional software for Apple platforms, such as iOS and Mac; also on the server with Linux. By following the numerous concrete examples, enlightening explanations, and engaging exercises, you'll finally grok powerful techniques like generics, efficient error handling, protocol-oriented programming, and advanced Swift patterns. Author Tjeerd in 't Veen reveals the high-value, difficult-to-discover Swift techniques he's learned through his own hard-won experience. What's inside Covers Swift 5 Writing reusable code with

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generics Iterators, sequences, and collections Protocol-oriented programming Understanding map, flatMap, and compactMap Asynchronous error handling with ResultBest practices in Swift About the Reader Written for advanced-beginner and intermediate-level Swift programmers. About the Author Tjeerd in 't Veen is a senior software engineer and architect in the mobile division of a large international banking firm. Table of Contents Introducing Swift in depth Modeling data with enums Writing cleaner properties Making optionals second nature Demystifying initializers Effortless error handling Generics Putting the pro in protocol-oriented programming Iterators, sequences, and collections Understanding map, flatMap, and compactMap Asynchronous error handling with Result Protocol extensions Swift patterns Delivering quality Swift code Where to Swift from here

Healthcare is fundamental to national progress in any sphere. In terms of resources for economic development, nothing can be considered of higher importance than the health of the people which is a measure of their energy, capacity and potential for productive work. Health is a positive state of well being in which the harmonious development of physical and mental capacities of the individual lead to the enjoyment of a rich and full life. It is not a negative state of mere absence of disease. Health further implies complete adjustment of the individual to his total environment, physical and social. Considerable achievements have been made since Independence in 1947 to improve health standards in the country. Nevertheless, problems abound. India has to deal with rising costs of healthcare and growing expectations of the people. The challenge of quality health services in remote

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rural regions has to be urgently met. AIDS, cancer, diabetes, cardiovascular disease (CVD) and stroke are not only serious health problems but also pose formidable development issues on account of their potential adverse impact on productivity and hence socio-economic development. The present volume comprises 26 research papers -- contributed by psychologists, psychiatrists, home scientists, AIDS counsellors, social workers and human resources (HM) experts -- which provide deep psycho-social and neurological insights into various dimensions of healthcare challenges being faced by India. Out of 26 papers, 15 papers deal with the pressing problem of HIV/AIDS and the remaining 11 with other physical and mental disorders including cancer, diabetes, depression, inhalant abuse, sleep problems, examination stress and sexually transmitted infections (STIs). These well-researched papers provide valuable information on management of healthcare problems in India.

A gargantuan, mind-altering comedy about the Pursuit of Happiness in America Set in an addicts' halfway house and a tennis academy, and featuring the most endearingly screwed-up family to come along in recent fiction, *Infinite Jest* explores essential questions about what entertainment is and why it has come to so dominate our lives; about how our desire for entertainment affects our need to connect with other people; and about what the pleasures we choose say about who we are. Equal parts philosophical quest and screwball comedy, *Infinite Jest* bends every rule of fiction without sacrificing for a moment its own entertainment value. It is an exuberant, uniquely American exploration of the passions that make us human - and one of those rare books that renew the idea of what a novel can do. "The next step in fiction...Edgy, accurate, and darkly witty...Think Beckett, think Pynchon, think Gaddis. Think." --Sven Birkerts, *The Atlantic*

"Spurious Correlations ... is the most fun you'll ever have with

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graphs."--Bustle Military intelligence analyst and Harvard Law student Tyler Vigen illustrates the golden rule that "correlation does not equal causation" through hilarious graphs inspired by his viral website. Is there a correlation between Nic Cage films and swimming pool accidents? What about beef consumption and people getting struck by lightning?

Absolutely not. But that hasn't stopped millions of people from going to tylervigen.com and asking, "Wait, what?" Vigen has designed software that scours enormous data sets to find unlikely statistical correlations. He began pulling the funniest ones for his website and has since gained millions of views, hundreds of thousands of likes, and tons of media coverage. Subversive and clever, *Spurious Correlations* is geek humor at its finest, nailing our obsession with data and conspiracy theory.

This is an insightful guide to efficient, practical solutions to real-world C++ problems. Concrete case studies run throughout the book and show how to develop quality C++ software.

Introduces the features of the C programming language, discusses data types, variables, operators, control flow, functions, pointers, arrays, and structures, and looks at the UNIX system interface

This guide was written for readers interested in learning the C++ programming language from scratch, and for both novice and advanced C++ programmers wishing to enhance their knowledge of C++. The text is organized to guide the reader from elementary language concepts to professional software development, with in depth coverage of all the C++ language elements en route.

Learning how to write C/C++ code is only the first step. To be a serious programmer, you need to understand the structure and purpose of the binary files produced by the compiler: object files, static libraries, shared libraries, and, of course,

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executables. *Advanced C and C++ Compiling* explains the build process in detail and shows how to integrate code from other developers in the form of deployed libraries as well as how to resolve issues and potential mismatches between your own and external code trees. With the proliferation of open source, understanding these issues is increasingly the responsibility of the individual programmer. *Advanced C and C++ Compiling* brings all of the information needed to move from intermediate to expert programmer together in one place -- an engineering guide on the topic of C/C++ binaries to help you get the most accurate and pertinent information in the quickest possible time.

Providing comprehensive coverage of all the concepts of Core Java, this user-friendly book adopts a simple language, crystal clear approach, and a straightforward comprehensible presentation supported by several examples and self-explanatory analogies. --

Bjarne Stroustrup's own C++ In-Depth Series is now available all together in one attractive gift box, at a special reduced price! All books in this series have been hand-picked by Bjarne Stroustrup, the creator of the C++ programming language, as being worthy additions to the C++ literature. They give programmers concise, focused guides to specific topics. The series' practical approach is designed to lift professionals to the next level in their programming skills. They are all written by acknowledged experts. The books included are: *Modern C++ Design*, by Andrei Alexandrescu *Accelerated C++*, by Andrew Koenig and Barbara Moo *Essential C++*, by Stan Lippman *Exceptional C++*, by Herb Sutter *More Exceptional C++*, by Herb Sutter These are five great books of use to all C++ programmers. They are gathered

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into one handsome and sturdy gift box, and they are specially priced at over \$30 off the cost of buying them individually. The C++ In-Depth Box Set will be a welcome gift for any C++ programmer.

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This text is an introduction to the complex world of the OOP with C++. It helps you understand the principles and acquire the practical skills of programming using the C++ programming language. Our aim is for you to gain sufficient knowledge and experience to perform simple useful programming tasks using the best up-to-date techniques and so we hope for it to be the easiest book from which you can learn the basics of real-world programming. Our fundamental assumption is that you wish to write programs for the use of others; hence, providing a decent level of system quality to achieve a level of professionalism becomes necessary.

Consequently, the topics here dealt with is what one shall need in order to get started with real-world programming, and not just what is easy to teach and learn. Rest assured, there shall not be any wastage of ones time with material of marginal practical importance. If an idea is explained here, chances are, its because one is likely to come in need of it. This book emphatically focuses on the syntax of C++. Understanding the fundamental ideas, principles, and techniques is the essence of a good programmer. Only a well-designed code stands any chance of becoming part of a correct, reliable, and maintainable system. Through this book, we hope that you will see the absolute necessity of understanding OOP with C++.

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Summary C# in Depth, Fourth Edition is your key to unlocking the powerful new features added to the language in C# 5, 6, and 7. Following the expert guidance of C# legend Jon Skeet, you'll master asynchronous functions, expression-bodied members, interpolated strings, tuples, and much more. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology The powerful, flexible C# programming language is the foundation of .NET development. Even after two decades of success, it's still getting better! Exciting new features in C# 6 and 7 make it easier than ever to take on big data applications, cloud-centric web development, and cross-platform software using .NET Core. There's never been a better time to learn C# in depth. About the Book C# in Depth, Fourth Edition is a revised edition of the bestseller written by C# legend Jon Skeet. This authoritative and engaging guide is your key to unlocking this powerful language, including the new features of C# 6 and 7. In it, Jon introduces expression-bodied members, interpolated strings, pattern matching, and more. Real-world examples drive it all home. By the end of this awesome book, you'll be writing C# code with skill, style, and confidence. What's Inside Comprehensive coverage of C# 6 and 7 Greatest hits of C# 2-5 Extended pass-by-reference functionality String interpolation Composition with tuples Decomposition and pattern matching About the Reader For intermediate C# developers. About the Author Jon Skeet is a senior software engineer at Google. He studied mathematics and computer science at Cambridge, is a recognized

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authority in Java and C#, and maintains the position of top contributor to Stack Overflow. Table of Contents
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C - In Depth - 2Nd Revised EditionC- In DepthData Structures Through C In Depth

Learn key topics such as language basics, pointers and pointer arithmetic, dynamic memory management, multithreading, and network programming. Learn how to use the compiler, the make tool, and the archiver.

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