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**Linux Kernel Programming** Sep 26 2019 Learn how to write high-quality kernel module code, solve common Linux kernel programming issues, and understand the fundamentals of Linux kernel internals Key FeaturesDiscover how to write kernel code using the Loadable Kernel Module frameworkExplore industry-grade techniques to perform efficient memory allocation and data synchronization within the kernelUnderstand the essentials of key internals topics such as kernel architecture, memory management, CPU scheduling, and kernel synchronizationBook Description Linux Kernel Programming is a comprehensive introduction for those new to Linux kernel and module development. This easy-to-follow guide will have you up and running with writing kernel code in next-to-no time. This book uses the latest 5.4 Long-Term Support (LTS) Linux kernel, which will be maintained from November 2019 through to December 2025. By working with the 5.4 LTS kernel throughout the book, you can be confident that your knowledge will continue to be valid for years to come. You'll start the journey by learning how to build the kernel from the source. Next, you'll write your first kernel module using the powerful Loadable Kernel Module (LKM) framework. The following chapters will cover key kernel internals topics including Linux kernel architecture, memory management, and CPU scheduling. During the course of this book, you'll delve into the fairly complex topic of concurrency within the kernel, understand the issues it can cause, and learn how they can be addressed with various locking technologies (mutexes, spinlocks, atomic, and refcount operators). You'll also benefit from more advanced material on cache effects, a primer on lock-free techniques within the kernel, deadlock avoidance (with lockdep), and kernel lock debugging techniques. By the end of this kernel book, you'll have a detailed understanding of the fundamentals of writing Linux kernel module code for real-world projects and products. What you will learnWrite high-quality modular kernel code (LKM framework) for 5.x kernelsConfigure and build a kernel from sourceExplore the Linux kernel architectureGet to grips with key internals regarding memory management within the kernelUnderstand and work with various dynamic kernel memory alloc/dealloc APIsDiscover key internals aspects regarding CPU scheduling within the kernelGain an understanding of kernel concurrency issuesFind out how to work with key kernel synchronization primitivesWho this book is for This book is for Linux programmers beginning to find their way with Linux kernel development. If you're a Linux kernel and driver developer looking to overcome frequent and common kernel development issues, or understand kernel internals, you'll find plenty of useful information. You'll need a solid foundation of Linux CLI and C programming before you can jump in.

**Essential SNMP** Dec 30 2019 A practical introduction to SNMP for system network administrators. Starts with the basics of SNMP, how it works and provides the technical background to use it effectively.

**Einführung in Maple V** Jun 15 2021 Deutsche Ausgabe von "Maple V Mathematics Learning Guide" von Waterloo Maple Software. Das Buch bietet einen Einstieg in das Programm mit Schwerpunkt auf den neuen Eigenschaften von Release 4 und den Graphikmöglichkeiten von Maple.

**Programming Language** Oct 27 2019 Java Programming: 3 Books In 1! Save time and money and start learning Java Programming now with this bestselling Java Computer Programming bundle covering Beginner, Intermediate and Advanced levels. This 3 book volume contains: Java: Beginner's Guide to Programming Code with JavaJava: Best Practices to Programming Code with JavaJava: Advanced Guide to Programming Code with Java BOOK 1 : Java: Beginner's Guide to Programming Code with Java In this Definitive Java Guide, you're about to discover how to... How to program code in Java through learning the core essentials that every Java programmer must know. Here is a Preview of What You'll Learn... Essentials of Java programming. Read then pick up the language and start applying the concepts to learn better Major facets of Java programming Several mechanics of Java programming: variables, control flow, strings, arrays - and why learning these core principles are important to Java programming success ... And much, much more! BOOK 2 : Java: Best Practices to Programming Code with Java In this Definitive Java Guide on Best Practices, you will learn the right way to lay out your code, why it should be done that way and show you several examples. You are about to discover... The Essential Guidelines on how to Effectively Format your Java Code for Best Results! The Common Mistakes of Java Coding - and how to fix them! Practice Proper Naming Conventions for Coding Efficiency The right way for Java files, statements, variables, conditionals and numbers to be written! How and When to Use Java Comments How to Use White Space Correctly ... And much, much more! BOOK 3 : Java: Advanced Guide to Programming Code with Java Are you struggling to understand some of the Advanced Java programming concepts? Look no further; in "Java: Advanced Guide to Programming Code with Java", you will learn all about: The Java Interface - Learn all about the Java Interface and how it works Java Packages - learn how to organize your code using packages Java Collections - Learn how to store dynamic data types better Java Inheritance - Learn about superclasses and abstract methods Java Packages - learn how to organize your code using packages ... And much, much more! Take action today and own this book for a limited time discount! Scroll to the top of the page and select the "Buy now" button.

**Get Programming with F#** Jan 11 2021 F# leads to quicker development time and a lower total cost of ownership. Its powerful feature set allows developers to more succinctly express their intent, and encourages best practices - leading to higher quality deliverables in less time. Programming with F#: A guide for .NET developers shows you how to upgrade your .NET development skills by adding a touch of functional programming in F#. In just 43 bite-size chunks, you'll learn to use F# to tackle the most common .NET programming tasks. You'll start with the basics of F# and functional programming, building on your existing skills in the .NET framework. Examples use the familiar Visual Studio environment, so you'll be instantly comfortable. Packed with enlightening examples, real-world use cases, and plenty of easy-to-digest code, this easy-to-follow tutorial will make you wonder why you didn't pick up F# years ago! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

**Mastering Delphi Programming: A Complete Reference Guide** Jul 17 2021 Use structural, behavioral, and concurrent patterns in Delphi to skillfully develop applications Key FeaturesDelve into the core patterns and components of Delphi to enhance your application's designLearn how to select the right patterns to improve your program's efficiency and productivityDiscover how parallel programming and memory management can optimize your codeBook Description Delphi is a cross-platform Integrated Development Environment (IDE) that supports rapid application development for most operating systems, including Microsoft Windows, iOS, and now Linux with RAD Studio 10.2. If you know how to use the features of Delphi, you can easily create scalable applications in no time. This Learning Path begins by explaining how to find performance bottlenecks and apply the correct algorithm to fix them. You'll brush up on tricks, techniques, and best practices to solve common design and architectural challenges. Then, you'll see how to leverage external libraries to write better-performing programs. You'll also learn about the eight most important patterns that'll enable you to develop and improve the interface between items and harmonize shared memories within threads. As you progress, you'll also delve into improving the performance of your code and mastering cross-platform RTL improvements. By the end of this Learning Path, you'll be able to address common design problems and feel confident while building scalable projects. This Learning Path includes content from the following Packt products: Delphi High Performance by Primož Gabrijel?;Hands-On Design Patterns with Delphi by Primož Gabrijel?;What you will learnUnderstand parallel programming and work with the various tools included with DelphiExplore memory managers and their implementationLeverage external libraries to write better-performing programsKeep up to date with the latest additions and design techniques in DelphiGet to grips with various modern multithreading approachesBreak a design problem down into its component partsWho this book is for This Learning Path is for intermediate-level Delphi programmers who want to build robust applications using Delphi features. Prior knowledge of Delphi is assumed.

**Game Boy Coding Adventure** May 03 2020 Embark on a journey to Game Boy programming mastery. Game Boy Coding Adventure is a complete, practical and timeless guide to unleash the power of the iconic handheld console. By the end of the book, you will have acquired all the necessary technical knowledge to program games and applications for the Game Boy. Book features Complete Every register and every functionality of the Game Boy is explained in detail. This is the first and last book you'll ever need to program the Game Boy. Practical The concepts are illustrated by over 50 code samples available on GitHub. The book is not yet another dry reference. You will gain hands-on experience straight away. Timeless The Game Boy is a remarkable piece of gaming history. This is your chance to dig into its fascinating hardware and program it like it was meant to be. Low-cost Programming the Game Boy is a rewarding hobby that won't drain your wallet. The software used in the book is freely available on the Internet. All you need to get started is a computer. You don't even need a Game Boy! Evolving New chapters are coming soon, at no additional cost. The next topic on the roadmap is the Super Game Boy. Audience Anyone with basic programming skills can successfully read the book. A good understanding of fundamental concepts, such as variables, loops, conditionals and functions, is expected, but no prior knowledge of assembly language or the Game Boy hardware is assumed. Whether you want to create games or applications, are interested in ROM hacking or are looking for a fun way to raise your engineering skills, this book will fulfill your needs. Support Please contact support@codingadventures.xyz if you have any questions or comments.

**Python Programming** Sep 06 2020 If you're looking for a way to become an expert coder and impress your friends with the programs you can make from scratch, and you don't want to spend thousands on a professional programmer, then it may be time to learn about Python. Here's the deal. You know that coding is an in-demand skill. You know that you can use it to make money on the side, find your dream job, or even ask for a raise (and get it) at your regular job. However, the idea of learning how to code can put you in a cold sweat. You could choose to hire another programmer to do the work, but this is costly, and if anything ever goes wrong with the program, you have to pay them again and again. You may even have a great idea for how to code a website or make your own app, or even a game, but with the costs being so high, it seems pointless and not worth your time. Does this sound like something you have been through? Then the information in this guide is the answer that you need. Inside, you will find all the tips, tricks, and practice codes that you need to learn Python and perfect your coding skills in no time. Cut months out of your learning process and start writing codes on your own, for free, in no time at all. This guidebook goes more in depth about the Python language, starting with how to download it to your computer all the way through to working with loops, exceptions, conditional statements and more. Inside this complete guide to the Python language, you will discover: The best benefits of Python and why programmers around the world choose it. How to download the Python language on your computer, regardless of the operating system you prefer. How to write your first program in Python What is means to work with an object-oriented programming language. How to write conditional statements, loops, functions, variables, classes, exceptions, and more. How to read some of the errors that may show up in your code. How to troubleshoot your own codes. Sample projects that walk you through how to complete them and use many of the tools and techniques you have learned through this guidebook. If you are ready to write your own codes and turn your ideas into reality, simply click on the buy now button and read through this complete guide on Python to get started!

**A Practical Guide to Linux Commands, Editors, and Shell Programming** Oct 20 2021 A guide to Linux covers such topics as the command line utilities, the Shells, the Editors, and programming tools.

**Java : Apr 13 2021 Essential Java Skills--Made Easy! What Special** – In this book I covered and explained several topics of latest Java 8 Features in detail for Developers & Fresher's, Topics Like– Lambdas. || Java 8 Functional interface, || Stream and Time API in Java 8. This Java book doesn't require previous programming experience. However, if you come from a C or C++ programming background, then you will be able to learn faster. Learn the all basics and advanced features of Java programming in no time from Bestseller Java Programming Author Harry. H. Chaudhary (More than 1,67,000 Books Sold !). This Java Guide, starts with the basics and Leads to Advance features of Java in detail with thousands of Java Codes and new features of Java 8 like Lambdas. Java 8 Functional interface, || Stream and Time API in Java 8. , I promise this book will make you expert level champion of java. Anyone can learn java through this book at expert level. The main objective of this java book is not to give you just Java Programming Knowledge, I have followed a pattern of improving the question solution of thousands of Codes with clear theory explanations with different Java complexities for each java topic problem, and you will find multiple solutions for complex java problems. Engineering Students and fresh developers can also use this book. This book covers common core syllabus for all Computer Science Professional Degrees If you are really serious then go ahead and make your day with this ultimate java book. First Part- Teach you how to compile and run a Java program, shows you everything you need to develop, compile, debug, and run Java programs. And then discusses the keywords, syntax, and constructs that form the core of the Java language. After that it leads you to advanced features of java, including multithreaded programming and Applets. Learning a new language is no easy task especially when it's an oop's programming language like Java. 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. This Java Book is very serious java stuff: A complete introduction to Java. 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. To use this book does not require any previous programming experience. However, if you come from a C/C++ background, then you will be able to advance a bit more rapidly. As most readers will know, Java is similar, in form and spirit, to C/C++. Thus, knowledge of those languages helps, but is not necessary. Even if you have never programmed before, you can learn to program in Java using this book. Inside Contents (Chapters): 1. (Overview of Java) 2.(Java Language) 3.(Control Statements) 4.(Scanner class, Arrays & Command Line Args) 5.(Class & Objects in Java) 6.(Inheritance in Java) 7.(Object oriented programming) 8.(Packages in Java) 9.(Interface in Java) 10.(String and StringBuffer) 11.(Exception Handling) 12.(Multi-Threaded Programming) 13.(Modifiers/Visibility modes) 14.(Wrapper Class) 15.(Input/Output in Java) 16.(Applet Fundamentals) 17.(Abstract Windows Toolkit(AWT) 18.(Introduction to AWT Events) 19.(Painting in AWT) 20.( java.lang.Object Class ) 21.(Collection Framework) PART - II (Java 8 Features for Developers) 22. Java 8 Features for Developers – Lambdas. 23. Java 8 Functional interface,Stream & Time API. 24. Key Features that Make Java More Secure than Other Languages.

**Step by Step Beginners' Guide to Learn Programming** Jan 29 2020 ???Get the Kindle version FREE when purchasing the Paperback!!!! Are you ready to chart a new course in your programming career? Are you ready but don't know where to begin?

Do not worry, because this book gives you the fundamentals of eight programming languages in a single book! Interestingly, you don't have to buy eight different programming books to learn each language as I have compiled everything you need in a single book. This beginners' guide is what you need to learn to program easily and quickly from an expert with over 10+ years' experience. All you need is a bit of patience and planning! This book "Step by Step Beginners' Guide to Learn Programming" is intended for beginners and as reference material for professionals who want to get back to the programming world after a long time. The book covers the basic topics you need to work on as a beginner willing to learn languages, including C#, C++, C, SQL, Java, JavaScript, PHP, and Python. The book is separated into 9 different chapters and each of these chapters gives you everything you need to know concerning that programming language. In this book, you will acquire the essentials of each programming languages such as variables, data types, operators and numerous examples to practice on your own. In Java Programming, you will acquire every information you need concerning data types, object-oriented programming, and control structures in Java. The next chapter challenges you on learning JavaScript, one of the most common scripting languages in the world. Furthermore, PHP will help you master the art of writing quality code. You will discover the basic syntax when writing PHP programs. In the SQL chapter, you will learn the nitty-gritty of creating a database and table easily and you'll learn how to insert, select, and perform various actions on a table. The book covers programming topics such as: Prerequisites for learning each language Features of the language The concepts of different programming languages Variables of the different programming language Where the language is applicable in our today world The book is well arranged for easy understanding. Don't forget to brush up your knowledge by going through the exercise page. It contains a series of questions to test your knowledge of each programming topic you have covered. Before you know it, you have mastered and the results on the screen will tell your success story. So what are you waiting for? Let the programming begin! Invest in your future! Click the "Buy Now" button at the top of this page and get your copy of "Step by step Beginners' guide to learn programming" now!

**Elements of Programming Interviews** May 15 2021 The core of EPI is a collection of over 300 problems with detailed solutions, including 100 figures, 250 tested programs, and 150 variants. The problems are representative of questions asked at the leading software companies. The book begins with a summary of the nontechnical aspects of interviewing, such as common mistakes, strategies for a great interview, perspectives from the other side of the table, tips on negotiating the best offer, and a guide to the best ways to use EPI. The technical core of EPI is a sequence of chapters on basic and advanced data structures, searching, sorting, broad algorithmic principles, concurrency, and system design. Each chapter consists of a brief review, followed by a broad and thought-provoking series of problems. We include a summary of data structure, algorithm, and problem solving patterns.

**The OpenGL ES 2.0 Programming Guide** Aug 30 2022 The first comprehensive guide to developing 3D graphic applications on mobile devices, from the leading authorities on OpenGL ES.

**Beginner's Guide to Kotlin Programming** Mar 25 2022 Kotlin is an exciting new language that runs on Windows, macOS and Linux operating systems. It has also been adopted by Google as their preferred language for Android development. This textbook assumes very little knowledge of programming so whether you have dabbled with a little JavaScript, played with a bit of Python, written Java or have virtually no programming experience at all you will find that it is for you. The first part of the book introduces Kotlin program structures as well as conditional flow of control features such as if and when expressions as well as iteration loops such as for, while and do-while. Subsequent chapters explain how functions are implemented in Kotlin and introduce concepts from functional programming such as higher order functions and curried functions. The second part focusses on object oriented programming techniques, these include classes, inheritance, abstraction and interfaces. The third part presents container data types such as Arrays, and collections including Lists, Sets and Maps and the fourth part considers concurrency and parallelism using Kotlin coroutines. The book concludes with an introduction to Android mobile application development using Kotlin. Clear steps are provided explaining how to set up your environment and get started writing your own Kotlin programs. An important aspect of the book is teaching by example and there are many examples presented throughout the chapters. These examples are supported by a public GitHub repository that provides complete working code as well as sample solutions to the chapter exercises. This helps illustrate how to write well structured, clear, idiomatic Kotlin to build real applications.

**C Programming for Beginners** Sep 18 2021 Are You Ready To Learn C Programming Easily? This book is also designed for software programmers who want to learn the C programming language from scratch. It provides you with an adequate understanding of the programming language. From there, you can bring yourself towards a higher level of expertise. While you are not really required to have any previous experience with computer programming, you still need to have a basic understanding of the terms commonly used in programming and computers. You see, the C language is one of the most recommended computer programming languages for beginners. After all, it is a predecessor to many of the modern programming languages used today, such as Java and Python. In other words, before you can effectively learn these languages, you have to have a clear understanding of the C language first. Through this book, you will learn how to write your first programs and see how they work in real time. You have to keep in mind that it is perfectly okay to make mistakes every now and then. It is through these mistakes that you learn. So, when you encounter an error on your program, you just have to study the part where you went wrong and redo it. When you run the programs in the C language, you will be notified in case you made a mistake. You will see the error and know which line you have to modify. This book features Frequently Asked Questions (FAQ) sections that are written with beginners like you in mind. The author understands that beginners may have certain questions with regard to the elements of C that are not often discussed in books. This book also teaches you how you can write the shortest programs possible, without negatively affecting your output. As a programmer, you want to make the most of your available time and space while still being efficient. You will also learn how to organise your codes and include remarks via comments so that you and your readers will not get confused. Here Is What You'll Learn After Downloading This C Programming Book: ? Introduction ? Chapter 1: Introduction to C ? Chapter 2: Getting Started ? Chapter 3: Flow of Control ? Chapter 4: Arrays ? Chapter 5: Pointers ? Frequently Asked Questions (FAQ) ? and much more What Are You Waiting For? Start Coding C Programming Right Now!

**A Systems Programmer's Guide for Implementing OMNITAB II** Jun 03 2020

**Advanced Guide to Python 3 Programming** Jun 23 2019 Advanced Guide to Python 3 Programming delves deeply into a host of subjects that you need to understand if you are to develop sophisticated real-world programs. Each topic is preceded by an introduction followed by more advanced topics, along with numerous examples, that take you to an advanced level. There are nine different sections within the book covering Computer Graphics (including GUIs), Games, Testing, File Input and Output, Databases Access, Logging, Concurrency and Parallelism, Reactive programming, and Networking. Each section is self-contained and can either be read on its own or as part of the book as a whole. This book is aimed at the those who have learnt the basics of the Python 3 language but want to delve deeper into Python's eco system of additional libraries and modules, to explore concurrency and parallelism, to create impressive looking graphical interfaces, to work with databases and files and to provide

professional logging facilities.

**Program Guide** Mar 01 2020

**Car Key Programming Guide** Dec 10 2020 Car keys have developed from the simple systems which were no more advanced than the front door key of a house to very advanced forms that use onboard computers for their operation. Modern vehicles also have push button remote locking/unlocking, it is rare these days to push your Car Key into the barrel to open it. Most cars now use Remote Control Keys to open. These improvements in the Car Keys Systems, has however made it difficult for genuine car owners to duplicate their Car keys or get a replacement when they lose them. The process requires specialize skills and knowhow for even a regular locksmith. This book has therefore been written to inform and guides anyone who wants to develop the skills required to duplicate or replace keys of modern cars.

**Program Guide** Jul 25 2019

**Handbook of Constraint Programming** Nov 20 2021 Constraint programming is a powerful paradigm for solving combinatorial search problems that draws on a wide range of techniques from artificial intelligence, computer science, databases, programming languages, and operations research. Constraint programming is currently applied with success to many domains, such as scheduling, planning, vehicle routing, configuration, networks, and bioinformatics. The aim of this handbook is to capture the full breadth and depth of the constraint programming field and to be encyclopedic in its scope and coverage. While there are several excellent books on constraint programming, such books necessarily focus on the main notions and techniques and cannot cover also extensions, applications, and languages. The handbook gives a reasonably complete coverage of all these lines of work, based on constraint programming, so that a reader can have a rather precise idea of the whole field and its potential. Of course each line of work is dealt with in a survey-like style, where some details may be neglected in favor of coverage. However, the extensive bibliography of each chapter will help the interested readers to find suitable sources for the missing details. Each chapter of the handbook is intended to be a self-contained survey of a topic, and is written by one or more authors who are leading researchers in the area. The intended audience of the handbook is researchers, graduate students, higher-year undergraduates and practitioners who wish to learn about the state-of-the-art in constraint programming. No prior knowledge about the field is necessary to be able to read the chapters and gather useful knowledge. Researchers from other fields should find in this handbook an effective way to learn about constraint programming and to possibly use some of the constraint programming concepts and techniques in their work, thus providing a means for a fruitful cross-fertilization among different research areas. The handbook is organized in two parts. The first part covers the basic foundations of constraint programming, including the history, the notion of constraint propagation, basic search methods, global constraints, tractability and computational complexity, and important issues in modeling a problem as a constraint problem. The second part covers constraint languages and solver, several useful extensions to the basic framework (such as interval constraints, structured domains, and distributed CSPs), and successful application areas for constraint programming. - Covers the whole field of constraint programming - Survey-style chapters - Five chapters on applications

**A Guide to PL/1 and Structured Programming** Aug 18 2021

**OpenCL Programming Guide** Nov 01 2022 The definitive reference and programming guide for OpenCL, the new parallel programming standard for high performance and cloud environments. • Will catch a growing wave of interest in OpenCL, following its implementations by Apple, NVIDIA, and ATI. • Designed specifically for developers: shows how to write parallel OpenCL software that takes advantage of all available processors (CPUs, GPUs, accelerators, and more) • OpenCL insiders present its API, programming language, development best practices, and many practical examples. The new OpenCL (Open Computing Language) standard and framework will make it possible to write applications that access all the programming resources available to them, including CPUs, GPUs, accelerators such as IBM's CELL, and even external processors. Already implemented by Apple (in Snow Leopard), ATI, and NVIDIA, OpenCL will be a solution for personal computers, servers, handheld/embedded devices, High Performance Computing applications, and even cloud systems. However, until now, developers who want to learn OpenCL have been required to read a specification designed for hardware and software implementers, not programmers. OpenCL Programming Guide is the first comprehensive, authoritative guide to OpenCL specifically designed for working developers. Written by leaders in the OpenCL community, this book thoroughly explains how each element of OpenCL 1.1 works, and offers complete reference material on the OpenCL API and programming language. The authors review key use cases, demonstrate how to write performant OpenCL code, and introduce essential algorithms for developers. They also present many examples, performance tips, case studies, and problems designed to help developers rapidly become effective, whatever their application or computing environment.

**Python Programming and Numerical Methods** Aug 25 2019 Python Programming and Numerical Methods: A Guide for Engineers and Scientists introduces programming tools and numerical methods to engineering and science students, with the goal of helping the students to develop good computational problem-solving techniques through the use of numerical methods and the Python programming language. Part One introduces fundamental programming concepts, using simple examples to put new concepts quickly into practice. Part Two covers the fundamentals of algorithms and numerical analysis at a level that allows students to quickly apply results in practical settings. Includes tips, warnings and "try this" features within each chapter to help the reader develop good programming practice Summaries at the end of each chapter allow for quick access to important information Includes code in Jupyter notebook format that can be directly run online

**Access Database Design & Programming** Oct 08 2020 This book provides experienced Access users who are novice programmers with frequently overlooked concepts and techniques necessary to create effective database applications. It focuses on designing effective tables in a multi-table application; using the Access interface or Access SQL to construct queries; and programming using the Data Access Object (DAO) and Microsoft Access object models.

**Metal Programming Guide** Sep 30 2022 Master Metal: The Next-Generation Graphics and GPU Programming Platform for Apple Developers Metal enables Apple developers to maximize performance in demanding tasks like 3D graphics, games, scientific programming, visualization, and GPU-accelerated machine learning. Metal(R) Programming Guide is the authoritative, practical guide to Metal for all iOS programmers who are interested in graphics programming but don't know where to start. Pioneering Apple developer Janie Clayton covers everything from basic draw calls to advanced parallel computing, combining easy-to-understand conceptual explanations with well-tested Swift 4/Xcode 9 sample code (available for download at GitHub). Clayton introduces the essential Metal, graphics, and math concepts every graphics programmer needs to know. She also discusses key graphics-specific libraries, concepts, and Metal Classes, presenting techniques and examples you'll find valuable for both graphics and data processing. Clayton also provides coverage of the Metal Compute Pipeline, demonstrating practical GPU programming applications ranging from image processing to neural networking. Quickly get a basic Metal project running Work with Metal resources and memory management Learn how shaders are compiled and accessed by the CPU Program both 2D and 3D graphics with Metal Import 3D models and assets from Blender, Maya, and other programs Apply imported textures to model objects Use multipass rendering to efficiently implement computationally expensive techniques Leverage tessellation to reduce mesh detail Use the GPU for a wide spectrum of general-purpose computing applications Get started with the Metal Performance Shaders Framework Register your product at [informit.com/register](http://informit.com/register) for convenient access to downloads, updates, and/or corrections as they become available. Normal 0 false false EN-US X-NONE X-NONE

**Game Programming Using Qt: Beginner's Guide** Dec 22 2021 A complete guide to designing and building fun games with Qt and Qt Quick 2 using associated toolsets About This Book Learn to create simple 2D to complex 3D graphics and games using all possible tools and widgets available for game development in Qt Understand technologies such as QML, Qt Quick, OpenGL, and Qt Creator, and learn the best practices to use them to design games Learn Qt with the help of many sample games introduced step-by-step in each chapter Who This Book Is For If you want to create great graphical user interfaces and astonishing games with Qt, this book is ideal for you. Any previous knowledge of Qt is not required, however knowledge of C++ is mandatory. What You Will Learn Install Qt on your system Understand the basic concepts of every Qt game and application Develop 2D object-oriented graphics using Qt Graphics View Build multiplayer games or add a chat function to your games with Qt's Network module Script your game with Qt Script Program resolution-independent and fluid UI using QML and Qt Quick Control your game flow as per the sensors of a mobile device See how to test and debug your game easily with Qt Creator and Qt Test In Detail Qt is the leading cross-platform toolkit for all significant desktop, mobile, and embedded platforms and is becoming more popular by the day, especially on mobile and embedded devices. Despite its simplicity, it's a powerful tool that perfectly fits game developers' needs. Using Qt and Qt Quick, it is easy to build fun games or shiny user interfaces. You only need to create your game once and deploy it on all major platforms like iOS, Android, and WinRT without changing a single source file. The book begins with a brief introduction to creating an application and preparing a working environment for both desktop and mobile platforms. It then dives deeper into the basics of creating graphical interfaces and Qt core concepts of data processing and display before you try creating a game. As you progress through the chapters, you'll learn to enrich your games by implementing network connectivity and employing scripting. We then delve into Qt Quick, OpenGL, and various other tools to add game logic, design animation, add game physics, and build astonishing UI for the games. Towards the final chapters, you'll learn to exploit mobile device features such as accelerators and sensors to build engaging user experiences. If you are planning to learn about Qt and its associated toolsets to build apps and games, this book is a must have. Style and approach This is an easy-to-follow, example-based, comprehensive introduction to all the major features in Qt. The content of each chapter is explained and organized around one or multiple simple game examples to learn Qt in a fun way.

**Seven Languages in Seven Weeks** Feb 09 2021 "Seven Languages in Seven Weeks" presents a meaningful exploration of seven languages within a single book. Rather than serve as a complete reference or installation guide, the book hits what's essential and unique about each language.

**Beginning Programming with Java For Dummies** Aug 06 2020 Become a Java wizard with this popular programming guide Consider Beginning Programming with Java For Dummies your indispensable guide to learning how to program in one of the most popular programming languages—Java! Java is an invaluable language to master, as it's widely used for application development, including Android, desktop, and server-side applications. Beginning Programming with Java For Dummies is written specifically for newcomers to programming. The book starts with an overview of computer programming and builds from there; it explains the software you need, walks you through writing your own programs, and introduces you to a few of the more-complex aspects of programming in Java. It also includes step-by-step examples you can try on your own (and email the author if you need help). As you work through the book, you'll get smart about these Java features: Object-oriented programming (OOP), a Java mainstay IntelliJ IDEA, an integrated development environment (IDE), that gives you one place to do all your programming, including debugging code Loops, branches, and collections Variables and operators Expressions, statements, and blocks Beginning Programming with Java For Dummies translates all this foreign programming and computer syntax into plain English, along with plenty of helpful examples and tips. Learning a new language—and coding is definitely its own language—should be a fun endeavor. With this book as your handy interpreter, you'll be on your way to fluency, speaking the language of coders everywhere!

**Java** Jul 05 2020 Java: The Definite Beginner's Guide to Get Started with Java Programming) Java is one of the most popular of all the programming languages with a wide range of applications and environments making knowledge of the program an essential tool. This guide provides the basic starting point to learn this important language. By starting here, you will be well on your way to launching a journey towards Java programming. Learn everything you need to understand this rule-based programming language in Java: The Definite Beginner's Guide to Get Started with Java Programming, by Joseph Connor. This short guidebook gives you all the necessary basics. Connor breaks down terminology that may otherwise be confusing, offers systematically simple to follow directions, and breaks down a complex programming language into easy to handle and actionable bite-sized bits. With Connor's easy to follow guidance you will learn: How to set up your environment How to create your first program How to create objects, and understand classes and constructors The difference between primitive and reference/object data types Different operators within Java and how each is used to manipulate variables How to create loop controls and decision-making statements How to work with numbers, strings, arrays, and methods And what to do with exceptions. By the end of Java: The Definite Beginner's Guide to Get Started with Java Programming, you will know the basics of Java programming and the syntax rules that go with it. This guide will launch you into programming like a pro in no time by giving you a solid foundation of the rules. You will be able to create your first program and troubleshoot exceptions. Keep this guide handy to refer to again and again along your programming journey. Java: The Definite Beginner's Guide to Get Started with Java Programming (Extended Edition) is a foundational tool for understanding the rules surrounding the syntax and the naming conventions necessary to grasp the rest of the language. Scroll up and download your version today!

**M Programming: A Comprehensive Guide** Apr 25 2022 M Programming: A Comprehensive Guide is a complete update to ABCs of MUMPS. While ABCs of MUMPS was an introduction for novice and intermediate M programmers, M Programming: A Comprehensive Guide has a new section containing advanced material. This new section addresses features such as transaction processing, networking, structured system variables, and interfaces to other standards. Five new chapters have been added, covering an overview of M for readers familiar with other languages; M and the Windows environment; interaction between M and the underlying system; transaction processing; interfacing M with other standards; and error handling. Sections on interactive programming and futures have been extensively updated. M Programming: A Comprehensive Guide is an invaluable resource for everyone who is learning or using M. · Includes section on advanced programming · Completely updated for the 1995 standard **A Complete Guide to Programming in C++** Jul 29 2022 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.

**Guidelines and Benchmarks for Prevention Programming** Mar 13 2021

**Teach Your Kids to Code** Nov 28 2019 Teach Your Kids to Code is a parent's and teacher's guide to teaching kids basic programming and problem solving using Python, the powerful language used in college courses and by tech companies like Google and IBM. Step-by-step explanations will have kids learning computational thinking right away, while visual and game-oriented examples hold their attention. Friendly introductions to fundamental programming concepts such as variables, loops, and functions will help even the youngest programmers build the skills they need to make their own cool games and applications. Whether you've been coding for years or have never programmed anything at all, Teach Your Kids to Code will help you show your young programmer how to: –Explore geometry by drawing colorful shapes with Turtle graphics –Write programs to encode and decode messages, play Rock-Paper-Scissors, and calculate how tall someone is in Ping-Pong balls –Create fun, playable games like War, Yahtzee, and Pong –Add interactivity, animation, and sound to their apps Teach Your Kids to Code is the perfect companion to any introductory programming class or after-school meet-up, or simply your educational efforts at home. Spend some fun, productive afternoons at the computer with your kids—you can all learn something!

**Learn C Programming** Jan 23 2022

**The CUDA Handbook** Feb 21 2022 'The CUDA Handbook' begins where 'CUDA by Example' leaves off, discussing both CUDA hardware and software in detail that will engage any CUDA developer, from the casual to the most hardcore. Newer CUDA developers will see how the hardware processes commands and the driver checks progress; hardcore CUDA developers will appreciate topics such as the driver API, context migration, and how best to structure CPU/GPU data interchange and synchronization. The book is partly a reference resource and partly a cookbook.

**Programming Media Art Using Processing** Apr 01 2020 "Programming Beginning Media Art for Non-Programmers provides an entry level exploration into visual design through computer programming using the open source and artist friendly language, Processing. Used by hundreds of students - this learning system breaks lessons down into strategic steps towards fun and creative media art projects. By following the lessons and producing the projects sequentially in this book - readers will develop the beginning foundational skills needed to understand computer programming basics across many languages and also explore the art of graphic design. Ultimately, this is a hands on, practical guide"--

**C# And Game Programming** Nov 08 2020

**Practical Haskell** May 27 2022 Get a practical, hands-on introduction to the Haskell language, its libraries and environment, and to the functional programming paradigm that is fast growing in importance in the software industry. This book contains excellent coverage of the Haskell ecosystem and supporting tools, include Cabal and Stack for managing projects, HUnit and QuickCheck for software testing, the Spock framework for developing web applications, Persistent and Esqueleto for database access, and parallel and distributed programming libraries. You'll see how functional programming is gathering momentum, allowing you to express yourself in a more concise way, reducing boilerplate, and increasing the safety of your code. Haskell is an elegant and noise-free pure functional language with a long history, having a huge number of library contributors and an active community. This makes Haskell the best tool for both learning and applying functional programming, and Practical Haskell takes advantage of this to show off the language and what it can do. What You Will Learn Get started programming with Haskell Examine the different parts of the language Gain an overview of the most important libraries and tools in the Haskell ecosystem Apply functional patterns in real-world scenarios Understand monads and monad transformers Proficiently use laziness and resource management Who This Book Is For Experienced programmers who may be new to the Haskell programming language. However, some prior exposure to Haskell is recommended.

**A Field Guide to Genetic Programming** Jun 27 2022 Genetic programming (GP) is a systematic, domain-independent method for getting computers to solve problems automatically starting from a high-level statement of what needs to be done. Using ideas from natural evolution, GP starts from an ooze of random computer programs, and progressively refines them through processes of mutation and sexual recombination, until high-fitness solutions emerge. All this without the user having to know or specify the form or structure of solutions in advance. GP has generated a plethora of human-competitive results and applications, including novel scientific discoveries and patentable inventions. This unique overview of this exciting technique is written by three of the most active scientists in GP. See [www.gp-field-guide.org.uk](http://www.gp-field-guide.org.uk) for more information on the book.

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