

Programming Language Brian W Kernighan

Code Reading Java Cookbook UNIX in a Nutshell Practical Java Computer Theology Software Design by Example The C++ Programming Language Cybernetics Oriented Programming (CYBOP) The Elements of Programming Style Classic Shell Scripting Embracing Modern C++ Safely The Problem with Software The Art of UNIX Programming Programming Language Pragmatics The Official Raspberry Pi Projects Book Volume 2 Programming Projects in C for Students of Engineering, Science, and Mathematics Bell Labs AUUGN C++ 2020 Go Programming Essentials: A Comprehensive Guide for Developers Diomidis Spinellis Ian F Darwin Arnold Robbins Peter Hagggar Timothy Jurgensen Greg Wilson Bjarne Stroustrup Christian Heller Brian W. Kernighan Arnold Robbins John Lakos Adam Barr Eric S. Raymond Michael L. Scott The Makers of The MagPi magazine Rouben Rostamian Narain Gehani Hoon Co Adam Jones Code Reading Java Cookbook UNIX in a Nutshell Practical Java Computer Theology Software Design by Example The C++ Programming Language Cybernetics Oriented Programming (CYBOP) The Elements of Programming Style Classic Shell Scripting Embracing Modern C++ Safely The Problem with Software The Art of UNIX Programming Programming Language Pragmatics The Official Raspberry Pi Projects Book Volume 2 Programming Projects in C for Students of Engineering, Science, and Mathematics Bell Labs AUUGN C++ 2020 Go Programming Essentials: A Comprehensive Guide for Developers *Diomidis Spinellis Ian F Darwin Arnold Robbins Peter Hagggar Timothy Jurgensen Greg Wilson Bjarne Stroustrup Christian Heller Brian W. Kernighan Arnold Robbins John Lakos Adam Barr Eric S. Raymond Michael L. Scott The Makers of The MagPi magazine Rouben Rostamian Narain Gehani Hoon Co Adam Jones*

if you are a programmer you need this book you've got a day to add a new feature in a 34 000 line program where do you start page 333 how can you understand and simplify an inscrutable piece of code page 39 where do you start when disentangling a complicated build process page 167 how do you comprehend code that appears to be doing five things in parallel page 132 you may read code because you have to to fix it inspect it or improve it you may read code the way an engineer examines a machine to discover what makes it tick or you may read code because you are scavenging looking for material to reuse code reading requires its own set of skills and the ability to determine which technique you use when is crucial in this indispensable book diomidis spinellis uses more than 600 real world examples to show you how to identify good and bad code how to read it what to look for and how to use this knowledge to improve your own code fact if you make a habit of reading good code you will write better code yourself

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developers like you will learn by example try out new features and use sample code to understand how new additions to the language and platform work and how to put them to work for you this comprehensive collection of problems solutions and practical examples will satisfy java developers at all levels of expertise whether you re new to java programming and need something to bridge the gap between theory laden reference manuals and real world programs or you re a seasoned java programmer looking for a new perspective or a different problem solving context this book will help you make the most of your java knowledge packed with hundreds of tried and true java recipes covering all of the major apis from the 1 4 version of java this book also offers significant first look recipes for the most important features of the new 1 5 version which is in beta release you get practical solutions to everyday problems and each is followed by a detailed ultimately useful explanation of how and why the technology works java cookbook 2nd edition includes code segments covering many specialized apis like those for working with struts ant and other new popular open source tools it also includes expanded mac os x panther coverage and serves as a great launching point for java developers who want to get started in areas outside of their specialization in this major revision you ll find succinct pieces of code that can be easily incorporated into other programs focusing on what s useful or tricky or what s useful and tricky java cookbook 2nd edition is the most practical java programming book on the market

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Índice abreviado general techniques objects and equality exception handling performance multithreading classes and interfaces appendix learning java

computers are complex tools of the human species to make them work well for us we have to specify their actions in very great detail when properly instructed networks of computers take on the trappings of human social orders derived from the physiological characteristics and capabilities of our species to create a social order we engage in grouping mechanisms through which the actions of the individuals within the group are influenced from a technical perspective such grouping mechanisms form the trust environments within which we can effect policy historically the most comprehensive such environments have been formed by religions within a specific religion the policy framework is established by a statement of theology so if we

connect all the dots when we want to tell our computers how to act in a manner paralleling human social orders we must define for them a theology so goes the rationale explored in great detail by the authors of computer theology based on their combined tenure of almost a century working in the realms of computer systems and their ubiquitous networks du castel and jurgensen have expressed both social and computer systems through the same concepts the result offers a unique perspective on the interconnection between people and machines that we have come to understand as the world wide

the best way to learn design in any field is to study examples and some of the best examples of software design come from the tools programmers use in their own work software design by example a tool based introduction with python therefore builds small versions of the things programmers use in order to demystify them and give some insights into how experienced programmers think from a file backup system and a testing framework to a regular expression matcher a browser layout engine and a very small compiler we explore common design patterns show how making code easier to test also makes it easier to reuse and help readers understand how debuggers profilers package managers and version control systems work so that they can use them more effectively this material can be used for self paced study in an undergraduate course on software design or as the core of an intensive weeklong workshop for working programmers each chapter has a set of exercises ranging in size and difficulty from half a dozen lines to a full day s work readers should be familiar with the basics of modern python but the more advanced features of the language are explained and illustrated as they are introduced all the written material in this project can be freely reused under the terms of the creative commons attribution license while all of the software is made available under the terms of the hippocratic license all proceeds from sale of this book will go to support the red door family shelter in toronto features teaches software design by showing programmers how to build the tools they use every day each chapter includes exercises to help readers check and deepen their understanding all the example code can be downloaded re used and modified under an open license

the new 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 has reorganized extended and completely rewritten his definitive reference and tutorial for programmers who want to use c most effectively the c programming language fourth edition delivers meticulous richly explained and integrated coverage of the entire language its facilities abstraction mechanisms standard libraries and key design techniques throughout stroustrup presents concise pure c 11 examples which have been carefully crafted to clarify both usage and program design to promote deeper understanding the author provides extensive cross references both within the book and to the iso standard new c 11 coverage includes support for concurrency regular expressions resource management pointers random numbers and improved containers general and uniform initialization simplified for statements move semantics and unicode support lambdas general constant expressions control over class defaults variadic templates template aliases and user defined literals compatibility issues topics addressed in this comprehensive book include basic facilities type object scope storage computation fundamentals and more modularity as supported by namespaces source files and exception handling c abstraction including classes class hierarchies and templates in support of a

synthesis of traditional programming object oriented programming and generic programming standard library containers algorithms iterators utilities strings stream i o locales numerics and more the c basic memory model in depth this fourth edition makes c 11 thoroughly accessible to programmers moving from c 98 or other languages while introducing insights and techniques that even cutting edge c 11 programmers will find indispensable this book features an enhanced layflat binding which allows the book to stay open more easily when placed on a flat surface this special binding method noticeable by a small space inside the spine also increases durability

an useful skill for unix users and system administrators shell scripts let you easily crunch data and automate repetitive tasks offering a way to quickly harness the full power of any unix system his book provides the tips tricks and organized knowledge needed to create excellent scripts as well as warnings of traps

maximize reward and minimize risk with modern c embracing modern c safely shows you how to make effective use of the new and enhanced language features of modern c without falling victim to their potential pitfalls based on their years of experience with large mission critical projects four leading c authorities divide c 11 14 language features into three categories safe conditionally safe and unsafe safe features offer compelling value are easy to use productively and are relatively difficult to misuse conditionally safe features offer significant value but come with risks that require significant expertise and familiarity before use unsafe features have an especially poor risk reward ratio are easy to misuse and are beneficial in only the most specialized circumstances this book distills the c community s years of experience applying c 11 and c 14 features and will help you make effective and safe design decisions that reflect real world economic engineering tradeoffs in large scale diverse software development environments the authors use examples derived from real code bases to illustrate every finding objectively and to illuminate key issues each feature identifies the sound use cases hidden pitfalls and shortcomings of that language feature after reading this book you will understand what each c 11 14 feature does and where it works best recognize how to work around show stopping pitfalls and annoying corner cases know which features demand additional training experience and peer review gain insights for preparing coding standards and style guides that suit your organization s needs be equipped to introduce modern c incrementally and judiciously into established code bases seasoned c developers team leads and technical managers who want to improve productivity code quality and maintainability will find the insights in this modular meticulously organized reference indispensable register your book for convenient access to downloads updates and or corrections as they become available see inside book for details

an industry insider explains why there is so much bad software and why academia doesn t teach programmers what industry wants them to know why is software so prone to bugs so vulnerable to viruses why are software products so often delayed or even canceled is software development really hard or are software developers just not that good at it in the problem with software adam barr examines the proliferation of bad software explains what causes it and offers some suggestions on how to improve the situation for one thing barr points out academia doesn t teach programmers what they actually need to know to do their jobs how to work in a team to create code that works reliably and can be maintained by

somebody other than the original authors as the size and complexity of commercial software have grown the gap between academic computer science and industry has widened it's an open secret that there is little engineering in software engineering which continues to rely not on codified scientific knowledge but on intuition and experience barr who worked as a programmer for more than twenty years describes how the industry has evolved from the era of mainframes and fortran to today's embrace of the cloud he explains bugs and why software has so many of them and why today's interconnected computers offer fertile ground for viruses and worms the difference between good and bad software can be a single line of code and barr includes code to illustrate the consequences of seemingly inconsequential choices by programmers looking to the future barr writes that the best prospect for improving software engineering is the move to the cloud when software is a service and not a product companies will have more incentive to make it good rather than good enough to ship

the art of unix programming poses the belief that understanding the unwritten unix engineering tradition and mastering its design patterns will help programmers of all stripes to become better programmers this book attempts to capture the engineering wisdom and design philosophy of the unix linux and open source software development community as it has evolved over the past three decades and as it is applied today by the most experienced programmers eric raymond offers the next generation of hackers the unique opportunity to learn the connection between unix philosophy and practice through careful case studies of the very best unix linux programs

accompanying cd rom contains advanced optional content hundreds of working examples an active search facility and live links to manuals tutorials compilers and interpreters on the world wide page 4 of cover

the official raspberry pi projects book returns with inspirational projects detailed step by step guides and product reviews based around the phenomenon that is the raspberry pi see why educators and makers adore the credit card sized computer that can be used to make robots retro games consoles and even art in this volume of the official raspberry pi projects book you'll get involved with the amazing and very active raspberry pi community be inspired by incredible projects made by other people learn how to make with your raspberry pi with our tutorials find out about the top kits and accessories for your pi projects and much much more if this is your first time using a raspberry pi you'll also find some very helpful guides to get you started with your raspberry pi journey with millions of raspberry pi boards out in the wild that's millions more people getting into digital making and turning their dreams into a pi powered reality being so spoilt for choice though means that we've managed to compile an incredible list of projects guides and reviews for you this book was written using an earlier version of raspberry pi os please use raspberry pi os legacy for full compatibility see magpi cc legacy for more information

like a pianist who practices from a book of tunes readers of programming projects in c for students of engineering science and mathematics will learn by doing written as a tutorial on how to think about organize and implement programs in scientific computing this book achieves its goal through an eclectic and wide ranging collection of projects each project presents a problem and an algorithm for solving it the reader is

guided through implementing the algorithm in c and compiling and testing the results it is not necessary to carry out the projects in sequential order the projects contain suggested algorithms and partially completed programs for implementing them to enable the reader to exercise and develop skills in scientific computing require only a working knowledge of undergraduate multivariable calculus differential equations and linear algebra and are written in platform independent standard c and the unix command line is used to illustrate compilation and execution the primary audience of this book is graduate students in mathematics engineering and the sciences the book will also be of interest to advanced undergraduates and working professionals who wish to exercise and hone their skills in programming mathematical algorithms in c a working knowledge of the c programming language is assumed

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embark on your go programming journey with go programming essentials a comprehensive guide for developers an indispensable resource for mastering one of the most dynamic and efficient languages in the tech industry this comprehensive guide is crafted to take beginners from foundational concepts to advanced topics while reinforcing the understanding of core principles for intermediate developers organized across ten in depth chapters go programming essentials covers a wide array of topics including setting up your go environment crafting your first go application and delving into advanced subjects such as concurrency error handling and web development with go each chapter methodically builds on the previous one guiding you through variables control structures functions and beyond to ensure a robust learning experience with clear explanations practical examples and engaging exercises this guide demystifies complex concepts making go accessible to programmers at all levels whether you are new to programming or an established developer aiming to incorporate go into your projects this book provides the knowledge skills and best practices to write effective efficient and robust go code embrace the future of software development with go programming essentials a comprehensive guide for developers and open the door to a myriad of programming possibilities begin your path to becoming a proficient go developer today

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