Cracking The Code Understand And Profit From The Biotech Revolution That Will Transform Our Lives And Generate Fortunes

Working Effectively with Legacy Code **Breaking the Code Revised Edition** *Beautiful Code* **Understanding Software Code** *Breaking the Code Dvd* **How to Code C++ Code Clone Analysis The Cancer Code** *The Programmer's Brain* **Breaking the Code Write Great Code, Volume 1, 2nd Edition Geek Sublime The Hitchhiker's Guide to Python Your First Year in Code** Head First C *Write Great Code, Volume 1, 2nd Edition* **Your Code as a Crime Scene A Complete Understanding of the Groceries Supply Code of Practice (GSCOP): 76% of Direct Suppliers Don't Understand the Code. Do you? The Art of Readable Code Write Great Code, Volume 1** *Head First Programming* **The Divinity Code to Understanding Your Dreams and Visions Code Complete** *Medical Astrology: Galactic Code: Understanding the Galactic Energies of the Human Biological Systems Coffee Break Python* **Team Geek** *Test-Driven Development with C++* **The Pragmatic Programmer The Code Book: The Secrets Behind Codebreaking R for Data Science** *Code Simplicity* **Software Design X-Rays** "You Are Not Expected to Understand This" **Understanding and Challenging the SEND Code of Practice Clean Code Clean Code Understanding Hospital Coding and Billing: A Worktext** *Refactoring* **Building Maintainable Software, Java Edition**

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Your Code as a Crime Scene May 11 2021 Jack the Ripper and legacy codebases have more in common than you'd think. Inspired by forensic psychology methods, you'll learn strategies to predict the future of your codebase, assess refactoring direction, and understand how your team influences the design. With its unique blend of forensic psychology and code analysis, this book arms you with the strategies you need, no matter what programming language you use. Software is a living entity that's constantly changing. To understand software systems, we need to know where they came from and how they evolved. By mining commit data and analyzing the history of your code, you can start fixes ahead of time to eliminate broken designs, maintenance issues, and team productivity bottlenecks. In this book, you'll learn forensic psychology techniques to successfully maintain your software. You'll create a geographic profile from your commit data to find hotspots, and apply temporal coupling concepts to uncover hidden relationships between unrelated areas in your code. You'll also measure the effectiveness of your code improvements. You'll learn how to apply these techniques on projects both large and small. For small projects, you'll get new insights into your design and how well the code fits your ideas. For large projects, you'll identify the good and the fragile parts. Large-scale development is also a social activity, and the team's dynamics influence code quality. That's why this book shows you how to uncover social biases when analyzing the evolution of your system. You'll use commit messages as eyewitness accounts to what is really happening in your code. Finally, you'll put it all together by tracking organizational problems in the code and finding out how to fix them. Come join the hunt for better code! What You Need: You need Java 6 and Python 2.7 to run the accompanying analysis tools. You also need Git to follow along with the examples.

Understanding and Challenging the SEND Code of Practice Nov 24 2019 Offering a clear but critical overview and interrogation of the Special Educational Needs and Disability (SEND) Code of Practice 2015, this book provides the context for understanding recent developments in SEND policy reform. It also considers implications for SEND professionalism and partnership working. The book also successfully links policy and theory to practice and has a focus on professional ethics. This book is aimed primarily at higher level students on Masters and professionals engaged in Continuing Professional Development (CPD), and is supported by chapter objectives, case studies, summaries of key concepts and annotated further reading suggestions.

Understanding Hospital Coding and Billing: A Worktext Aug 22 2019 Packed with real-world applications, UNDERSTANDING HOSPITAL CODING AND BILLING: A WORKTEXT, 3e offers a comprehensive guide to both hospital billing and coding that helps students learn to create results with greater specificity, and accuracy. Enabling instructors to easily adapt to the postponement of ICD-10-CM and ICD-10-PCS, the new edition provides instruction on the current ICD-9-CM concepts as well as prepares students for ICD-10 guidelines. Features more than 30 case studies with patient record activities for practicing completing the UB-04 billing form Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Breaking the Code Revised Edition Sep 27 2022 The Book of Revelation contains passages of great beauty and comfort, as well as passages that strike the casual reader as bizarre, bewildering, and sometimes frightening. How are readers today to discern God’s message in this peculiar part of the Bible? Breaking the Code Revised Edition provides a trustworthy guide to the rich symbolism of this important biblical book. Noted biblical scholar Bruce M. Metzger presents the fruits of solid scholarship in a non-academic style. This revised edition includes updates based on current biblical research, as well as additional teaching from author and respected New Testament scholar David deSilva. Additional components for a six-week study include a DVD featuring David deSilva and a comprehensive Leader Guide introducing the main points and setting the stage for small group discussion. Chapters include: Introducing the Book of Revelation John's Vision of the Heavenly Christ (Revelation 1:1-20) Letters to Churches (Revelation 2:1-29) More Letters to Churches (Revelation 3:1-22) John's Vision of God and the Lamb (Revelation 4:1-5:14) Opening the Seven Seals of God's Scroll (Revelation 6:1-8:2) Sounding the Seven Trumpets (Revelation 8:3-11:19) The Satanic Trinity: The Dragon and the Two Beasts (Revelation 12:1-14:20) The Seven Bowls of God's Wrath (Revelation 15:1-18:24) The Final Victory and the Last Judgment (Revelation 19:1-20:15) John's Vision of the Heavenly Jerusalem (Revelation 21:1-22:21)

Head First Programming Jan 07 2021 Looking for a reliable way to learn how to program on your own, without being overwhelmed by confusing concepts? Head First Programming introduces the core concepts of writing computer programs -- variables, decisions, loops, functions, and objects -- which apply regardless of the programming language. This book offers concrete examples and exercises in the dynamic and versatile Python language to demonstrate and reinforce these concepts. Learn the basic tools to start writing the programs that interest you, and get a better understanding of what software can (and cannot) do. When you're finished, you'll have the necessary foundation to learn any programming language or tackle any software project you choose. With a focus on programming concepts, this book teaches you how to: Understand the core features of all programming languages, including: variables, statements, decisions, loops, expressions, and operators Reuse code with functions Use library code to save time and effort Select the best data structure to manage complex data Write programs that talk to the Web Share your data with other programs Write programs that test themselves and help you avoid embarrassing coding errors We think your time is too valuable to waste struggling with new concepts. Using the latest research in cognitive science and learning theory to craft a multi-sensory learning experience, Head First Programming uses a visually rich format designed for the way your brain works, not a text-heavy approach that puts you to sleep.

Breaking the Code Dec 18 2021 Biblical scholar Bruce Metzger presents the fruits of solid scholarship in a non-academic style to help readers understand the puzzling--sometimes frightening--Book of Revelation. He focuses on the comfort and beauty to be found in the book.

Understanding Software Jul 25 2022 Software legend Max Kanat-Alexander shows you how to succeed as a developer by embracing simplicity, with forty-three essays that will help you really understand the software you work with. About This Book Read and enjoy the superlative writing and insights of the legendary Max Kanat-Alexander Learn and reflect with Max on how to bring simplicity to your software design principles Discover the secrets of rockstar programmers and how to also just suck less as a programmer Who This Book Is For Understanding Software is for every programmer, or anyone who works with programmers. If life is feeling more complex than it should be, and you need to touch base with some clear thinking again, this book is for you. If you need some inspiration and a reminder of how to approach your work as a programmer by embracing some simplicity in your work again, this book is for you. If you're one of Max's followers

already, this book is a collection of Max's thoughts selected and curated for you to enjoy and reflect on. If you're new to Max's work, and ready to connect with the power of simplicity again, this book is for you! What You Will Learn See how to bring simplicity and success to your programming world Clues to complexity - and how to build excellent software Simplicity and software design Principles for programmers The secrets of rockstar programmers Max's views and interpretation of the Software industry Why Programmers suck and how to suck less as a programmer Software design in two sentences What is a bug? Go deep into debugging In Detail In Understanding Software, Max Kanat-Alexander, Technical Lead for Code Health at Google, shows you how to bring simplicity back to computer programming. Max explains to you why programmers suck, and how to suck less as a programmer. There's just too much complex stuff in the world. Complex stuff can't be used, and it breaks too easily. Complexity is stupid. Simplicity is smart. Understanding Software covers many areas of programming, from how to write simple code to profound insights into programming, and then how to suck less at what you do! You'll discover the problems with software complexity, the root of its causes, and how to use simplicity to create great software. You'll examine debugging like you've never done before, and how to get a handle on being happy while working in teams. Max brings a selection of carefully crafted essays, thoughts, and advice about working and succeeding in the software industry, from his legendary blog Code Simplicity. Max has crafted forty-three essays which have the power to help you avoid complexity and embrace simplicity, so you can be a happier and more successful developer. Max's technical knowledge, insight, and kindness, has earned him code guru status, and his ideas will inspire you and help refresh your approach to the challenges of being a developer. Style and approach Understanding Software is a new selection of carefully chosen and crafted essays from Max Kanat-Alexander's legendary blog call Code Simplicity. Max's writing and thoughts are great to sit and read cover to cover, or if you prefer you can drop in and see what you discover new every single time!

Software Design X-Rays Jan 27 2020 Are you working on a codebase where cost overruns, death marches, and heroic fights with legacy code monsters are the norm? Battle these adversaries with novel ways to identify and prioritize technical debt, based on behavioral data from how developers work with code. And that's just for starters. Because good code involves social design, as well as technical design, you can find surprising dependencies between people and code to resolve coordination bottlenecks among teams. Best of all, the techniques build on behavioral data that you already have: your version-control system. Join the fight for better code! Use statistics and data science to uncover both problematic code and the behavioral patterns of the developers who build your software. This combination gives you insights you can't get from the code alone. Use these insights to prioritize refactoring needs, measure their effect, find implicit dependencies between different modules, and automatically create knowledge maps of your system based on actual code contributions. In a radical, much-needed change from common practice, guide organizational decisions with objective data by measuring how well your development teams align with the software architecture. Discover a comprehensive set of practical analysis techniques based on version-control data, where each point is illustrated with a case study from a real-world codebase. Because the techniques are language neutral, you can apply them to your own code no matter what programming language you use. Guide organizational decisions with objective data by measuring how well your development teams align with the software architecture. Apply research findings from social psychology to software development, ensuring you get the tools you need to coach your organization towards better code. If you're an experienced programmer, software architect, or technical manager, you'll get a new perspective that will change how you work with code. What You Need: You don't have to install anything to follow along in the book. TThe case studies in the book use well-known open source projects hosted on GitHub. You'll use CodeScene, a free software analysis tool for open source projects, for the case studies. We also discuss alternative tooling options where they exist.

Breaking the Code Dvd May 23 2022 A trustworthy guide to understanding the Book of Revelation

Clean Code Sep 22 2019 Looks at the principles and clean code, includes case studies showcasing the practices of writing clean code, and contains a list of heuristics and "smells" accumulated from the process of writing clean code.

The Art of Readable Code Mar 09 2021 As programmers, we've all seen source code that's so ugly and buggy it makes our brain ache. Over the past five years, authors Dustin Boswell and Trevor Foucher have analyzed hundreds of examples of "bad code" (much of it their own) to determine why they're bad and how they could be improved. Their conclusion? You need to write code that minimizes the time it would take someone else to understand it—even if that someone else is you. This book focuses on basic principles and practical techniques you can apply every time you write code. Using easy-to-digest code examples from different languages, each chapter dives into a different aspect of coding, and demonstrates how you can make your code easy to understand. Simplify naming, commenting, and formatting with tips that apply to every line of code Refine your program's loops, logic, and variables to reduce complexity and confusion Attack problems at the function level, such as reorganizing blocks of code to do one task at a time Write effective test code that is thorough and concise—as well as readable "Being aware of how the code you create affects those who look at it later is an important part of developing software. The authors did a great job in taking you through the different aspects of this challenge, explaining the details with instructive examples." —Michael Hunger, passionate Software Developer

The Cancer Code Feb 20 2022 Author of the international bestsellers The Diabetes Code and The Obesity Code Dr. Jason Fung returns with an eye-opening biography of cancer in which he offers a radical new paradigm for understanding cancer—and issues a call to action for reducing risk moving forward. Our understanding of cancer is slowly undergoing a revolution, allowing for the development of more effective treatments. For the first time ever, the death rate from cancer is showing a steady decline . . . but the "War on Cancer" has hardly been won. In The Cancer Code, Dr. Jason Fung offers a revolutionary new understanding of this invasive, often fatal disease—what it is, how it manifests, and why it is so challenging to treat. In this rousing narrative, Dr. Fung identifies the medical community's many missteps in cancer research—in particular, its focus on genetics, or what he terms the "seed" of cancer, at the expense of examining the "soil," or the conditions under which cancer flourishes. Dr. Fung—whose groundbreaking work in the treatment of obesity and diabetes has won him international acclaim—suggests that the primary disease pathway of cancer is caused by the dysregulation of insulin. In fact, obesity and type 2 diabetes significantly increase an individual's risk of cancer. In this accessible read, Dr. Fung provides a new paradigm for dealing with cancer, with recommendations for what we can do to create a hostile soil for this dangerous seed. One such strategy is intermittent fasting, which reduces blood glucose, lowering insulin levels. Another, eliminating intake of insulin-stimulating foods, such as sugar and refined carbohydrates. For hundreds of years, cancer has been portrayed as a foreign invader we've been powerless to stop. By reshaping our view of cancer as an internal uprising of our own healthy cells, we can begin to take back control. The seed of cancer may exist in all of us, but the power to change the soil is in our hands.

Working Effectively with Legacy Code Oct 28 2022 Get more out of your legacy systems: more performance, functionality, reliability, and manageability Is your code easy to change? Can you get nearly instantaneous feedback when you do change it? Do you understand it? If the answer to any of these questions is no, you have legacy code, and it is draining time and money away from your development efforts. In this book, Michael Feathers offers start-to-finish strategies for working more effectively with large, untested legacy code bases. This book draws on material Michael created for his renowned Object Mentor seminars: techniques Michael has used in mentoring to help hundreds of developers, technical managers, and testers bring their legacy systems under control. The topics covered include Understanding the mechanics of software change: adding features, fixing bugs, improving design, optimizing performance Getting legacy code into a test harness Writing tests that protect you against introducing new problems Techniques that can be used with any language or platform—with examples in Java, C++, C, and C# Accurately identifying where code changes need to be made Coping with legacy systems that aren't object-oriented Handling applications that don't seem to have any structure This book also includes a catalog of twenty-four dependency-breaking techniques that help you work with program elements in isolation and make safer changes.

The Divinity Code to Understanding Your Dreams and Visions Dec 06 2020 The Divinity Code to Understanding your Dreams and Visions Stop wondering what your dreams and visions mean—and start living the meanings! The Divinity Code to Understanding your Dreams and Visions is a Bible-based guide to dream interpretation that reveals the mysteries of the Kingdom of Heaven. With this set of Master keys, you can unlock the unseen realm! Led by the Holy Spirit, you can manifest God's Kingdom on earth through Jesus Christ by knowing what your dreams and visions mean. The Divinity Code to Understanding your Dreams and Visions contains: The most extensive Christian dream dictionary on the market (with Scripture support). An important dictionary of names and places. A critical chapter on counterfeit interpretations by the occult. 101 interpreted dreams providing credible evidence. A fascinating metaphor dictionary. Embrace your supernatural communications with God and go deeper into the things of the Spirit—today!

Your First Year in Code Aug 14 2021 Starting a career in programming can be intimidating. Whether you're switching careers, joining a bootcamp, starting a C.S. degree, or learning on your own, Your First Year in Code can help, with practical advice on topics like code reviews, resume writing, fitting in, ethics, and finding your dream job.

How to Code C++ Apr 22 2022 Everything a beginner needs to learn how to program. Starting with how to setup a computer for coding. Then just enough theory at the right time to keep it interesting. A large project ties everything together and grows throughout the book.

"You Are Not Expected to Understand This" Dec 26 2019 Leading technologists, historians, and journalists reveal the stories behind the computer coding that touches all aspects of life—for better or worse Few of us give much thought to computer code or how it comes to be. The very word "code" makes it sound

immutable or even inevitable. “You Are Not Expected to Understand This” demonstrates that, far from being preordained, computer code is the result of very human decisions, ones we all live with when we use social media, take photos, drive our cars, and engage in a host of other activities. Everything from law enforcement to space exploration relies on code written by people who, at the time, made choices and assumptions that would have long-lasting, profound implications for society. Torie Bosch brings together many of today’s leading technology experts to provide new perspectives on the code that shapes our lives. Contributors discuss a host of topics, such as how university databases were programmed long ago to accept only two genders, what the person who programmed the very first pop-up ad was thinking at the time, the first computer worm, the Bitcoin white paper, and perhaps the most famous seven words in Unix history: “You are not expected to understand this.” This compelling book tells the human stories behind programming, enabling those of us who don’t think much about code to recognize its importance, and those who work with it every day to better understand the long-term effects of the decisions they make. With an introduction by Ellen Ullman and contributions by Mahsa Alimardani, Elena Botella, Meredith Broussard, David Cassel, Arthur Daemmrich, Charles Duan, Quinn DuPont, Claire L. Evans, Hany Farid, James Grimmelmann, Katie Hafner, Susan C. Herring, Syeda Gulshan Ferdous Jana, Lowen Liu, John MacCormick, Brian McCullough, Charlton McIlwain, Lily Hay Newman, Margaret O'Mara, Will Oremus, Nick Partridge, Benjamin Pope, Joy Lisi Rankin, Afsaneh Rigot, Ellen R. Stofan, Lee Vinsel, Josephine Wolff, and Ethan Zuckerman.

Write Great Code, Volume 1 Feb 08 2021 Today's programmers are often narrowly trained because the industry moves too fast. That's where Write Great Code, Volume 1: Understanding the Machine comes in. This, the first of four volumes by author Randall Hyde, teaches important concepts of machine organization in a language-independent fashion, giving programmers what they need to know to write great code in any language, without the usual overhead of learning assembly language to master this topic. A solid foundation in software engineering, The Write Great Code series will help programmers make wiser choices with respect to programming statements and data types when writing software.

Head First C Jul 13 2021 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.

Write Great Code, Volume 1, 2nd Edition Jun 12 2021 Understanding the Machine, the first volume in the landmark Write Great Code series by Randall Hyde, explains the underlying mechanics of how a computer works. This, the first volume in Randall Hyde's Write Great Code series, dives into machine organization without the extra overhead of learning assembly language programming. Written for high-level language programmers, Understanding the Machine fills in the low-level details of machine organization that are often left out of computer science and engineering courses. Learn: How the machine represents numbers, strings, and high-level data structures, so you'll know the inherent cost of using them. How to organize your data, so the machine can access it efficiently. How the CPU operates, so you can write code that works the way the machine does. How I/O devices operate, so you can maximize your application's performance when accessing those devices. How to best use the memory hierarchy to produce the fastest possible programs. Great code is efficient code. But before you can write truly efficient code, you must understand how computer systems execute programs and how abstractions in programming languages map to the machine's low-level hardware. After all, compilers don't write the best machine code; programmers do. This book gives you the foundation upon which all great software is built. NEW IN THIS EDITION, COVERAGE OF: Programming languages like Swift and Java Code generation on modern 64-bit CPUs ARM processors on mobile phones and tablets Newer peripheral devices Larger memory systems and large-scale SSDs

Write Great Code, Volume 1, 2nd Edition Nov 17 2021 Understanding the Machine, the first volume in the landmark Write Great Code series by Randall Hyde, explains the underlying mechanics of how a computer works. This, the first volume in Randall Hyde's Write Great Code series, dives into machine organization without the extra overhead of learning assembly language programming. Written for high-level language programmers, Understanding the Machine fills in the low-level details of machine organization that are often left out of computer science and engineering courses. Learn: How the machine represents numbers, strings, and high-level data structures, so you'll know the inherent cost of using them. How to organize your data, so the machine can access it efficiently. How the CPU operates, so you can write code that works the way the machine does. How I/O devices operate, so you can maximize your application's performance when accessing those devices. How to best use the memory hierarchy to produce the fastest possible programs. Great code is efficient code. But before you can write truly efficient code, you must understand how computer systems execute programs and how abstractions in programming languages map to the machine's low-level hardware. After all, compilers don't write the best machine code; programmers do. This book gives you the foundation upon which all great software is built. NEW IN THIS EDITION, COVERAGE OF: Programming languages like Swift and Java Code generation on modern 64-bit CPUs ARM processors on mobile phones and tablets Newer peripheral devices Larger memory systems and large-scale SSDs

The Code Book: The Secrets Behind Codebreaking Apr 29 2020 "As gripping as a good thriller." --The Washington Post Unpack the science of secrecy and discover the methods behind cryptography--the encoding and decoding of information--in this clear and easy-to-understand young adult adaptation of the national bestseller that's perfect for this age of WikiLeaks, the Sony hack, and other events that reveal the extent to which our technology is never quite as secure as we want to believe. Coders and codebreakers alike will be fascinated by history's most mesmerizing stories of intrigue and cunning--from Julius Caesar and his Caeser cipher to the Allies' use of the Enigma machine to decode German messages during World War II. Accessible, compelling, and timely, The Code Book is sure to make readers see the past--and the future--in a whole new way. "Singh's power of explaining complex ideas is as dazzling as ever." --The Guardian

Medical Astrology: Galactic Code: Understanding the Galactic Energies of the Human Biological Systems Oct 04 2020 Medical Astrology: Galactic Code describes the fascinating discovery of the Galactic Code. As the genetic code composes proteins from nucleic acids, the Galactic Code forms the structures for the main biological systems from the energies of the constellations of the Zodiac. The Human systems form the Zodiac Ecliptic around each person similar to the one in the sky. This “Human Ecliptic” determines the major energies of the body and its biological systems. The Human Ecliptic determines the stages of the human development, the stages of the influence of the nervous system and the human temperaments. The cardinal cross shows the influence of the elements on the work of the body. The theory combines astrological, medical and psychological sciences and is a mind-expanding read.

The Programmer's Brain Jan 19 2022 "A great book with deep insights into the bridge between programming and the human mind." - Mike Taylor, CGI Your brain responds in a predictable way when it encounters new or difficult tasks. This unique book teaches you concrete techniques rooted in cognitive science that will improve the way you learn and think about code. In The Programmer’s Brain: What every programmer needs to know about cognition you will learn: Fast and effective ways to master new programming languages Speed reading skills to quickly comprehend new code Techniques to unravel the meaning of complex code Ways to learn new syntax and keep it memorized Writing code that is easy for others to read Picking the right names for your variables Making your codebase more understandable to newcomers Onboarding new developers to your team Learn how to optimize your brain’s natural cognitive processes to read code more easily, write code faster, and pick up new languages in much less time. This book will help you through the confusion you feel when faced with strange and complex code, and explain a codebase in ways that can make a new team member productive in days! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Take advantage of your brain’s natural processes to be a better programmer. Techniques based in cognitive science make it possible to learn new languages faster, improve productivity, reduce the need for code rewrites, and more. This unique book will help you achieve these gains. About the book The Programmer’s Brain unlocks the way we think about code. It offers scientifically sound techniques that can radically improve the way you master new technology, comprehend code, and memorize syntax. You’ll learn how to benefit from productive struggle and turn confusion into a learning tool. Along the way, you’ll discover how to create study resources as you become an expert at teaching yourself and bringing new colleagues up to speed. What's inside Understand how your brain sees code Speed reading skills to learn code quickly Techniques to unravel complex code Tips for making codebases understandable About the reader For programmers who have experience working in more than one language. About the author Dr. Felienne Hermans is an associate professor at Leiden University in the Netherlands. She has spent the last decade researching programming, how to learn and how to teach it. Table of Contents PART 1 ON READING CODE BETTER 1 Decoding your confusion while coding 2 Speed reading for code 3 How to learn programming syntax quickly 4 How to read complex code PART 2 ON THINKING ABOUT CODE 5 Reaching a deeper understanding of code 6 Getting better at solving programming problems 7 Misconceptions: Bugs in thinking PART 3 ON WRITING BETTER CODE 8 How to get better at naming things 9 Avoiding bad code and cognitive load: Two frameworks 10 Getting better at solving complex problems PART 4 ON COLLABORATING ON CODE 11 The act of writing code 12 Designing and improving larger systems 13 How to onboard new developers

The Hitchhiker's Guide to Python Sep 15 2021 The Hitchhiker's Guide to Python takes the journeyman Pythonista to true expertise. More than any other language, Python was created with the philosophy of simplicity and parsimony. Now 25 years old, Python has become the primary or secondary language (after SQL) for many business users. With popularity comes diversity—and possibly dilution. This guide, collaboratively written by over a hundred members of the Python community, describes best practices currently used by package and application developers. Unlike other books for this audience, The Hitchhiker’s Guide is light on reusable code and heavier on design philosophy, directing the reader to excellent sources that already exist.

Clean Code Oct 24 2019 We all live in a digital world of information technology. In this technology-driven world, computer software and applications are everywhere around us. Have you ever wondered how different applications and software work together efficiently? This book will be a comprehensive guide to make users understand how coding practices work in a few different computer programs and software. This book provides details about programming concepts, the history of programming, the importance of programming in daily life, how programming concepts are evolving in our daily life, and the best practices of using programming languages. We also discuss the best programming languages available in the world, different components of a program, how programs are improved in their efficiency, learning programming for a bright carrier choice and the future of programming. The programming is involved everywhere around us, even though many people are not aware of it. People work on digital platforms all the time, and they are using different kinds of programs. They do not have a deep understanding of programming concepts. This book is a comprehensive guide to help you understand how different programming concepts work together, and how different applications are made by using effective programming strategies, this book will be a comprehensive guide to understand all these concepts. This book will depict all the concepts of the programming languages from beginning to end. It will be a comprehensive and complete guide to understand the use of the best available sources to make an application that will work effectively and efficiently on the intended platform. Writing clean code is a skill that all computer programmers will want to master.

Team Geek Aug 02 2020 In a perfect world, software engineers who produce the best code are the most successful. But in our perfectly messy world, success also depends on how you work with people to get your job done. In this highly entertaining book, Brian Fitzpatrick and Ben Collins-Sussman cover basic patterns and anti-patterns for working with other people, teams, and users while trying to develop software. This is valuable information from two respected software engineers whose popular series of talks—including "Working with Poisonous People"—has attracted hundreds of thousands of followers. Writing software is a team sport, and human factors have as much influence on the outcome as technical factors. Even if you've spent decades learning the technical side of programming, this book teaches you about the often-overlooked human component. By learning to collaborate and investing in the "soft skills" of software engineering, you can have a much greater impact for the same amount of effort. Team Geek was named as a Finalist in the 2013 Jolt Awards from Dr. Dobb's Journal. The publication's panel of judges chose five notable books, published during a 12-month period ending June 30, that every serious programmer should read.

Code Jun 24 2022

Code Clone Analysis Mar 21 2022 This is the first book organized around code clone analysis. To cover the broad studies of code clone analysis, this book selects past research results that are important to the progress of the field and updates them with new results and future directions. The first chapter provides an introduction for readers who are inexperienced in the foundation of code clone analysis, defines clones and related terms, and discusses the classification of clones. The chapters that follow are categorized into three main parts to present 1) major tools for code clone analysis, 2) fundamental topics such as evaluation benchmarks, clone visualization, code clone searches, and code similarities, and 3) applications to actual problems. Each chapter includes a valuable reference list that will help readers to achieve a comprehensive understanding of this diverse field and to catch up with the latest research results. Code clone analysis relies heavily on computer science theories such as pattern matching algorithms, computer language, and software metrics. Consequently, code clone analysis can be applied to a variety of real-world tasks in software development and maintenance such as bug finding and program refactoring. This book will also be useful in designing an effective curriculum that combines theory and application of code clone analysis in university software engineering courses.

The Pragmatic Programmer May 31 2020 What others in the trenches say about The Pragmatic Programmer... “The cool thing about this book is that it’s great for keeping the programming process fresh. The book helps you to continue to grow and clearly comes from people who have been there.” —Kent Beck, author of Extreme Programming Explained: Embrace Change “I found this book to be a great mix of solid advice and wonderful analogies!” —Martin Fowler, author of Refactoring and UML Distilled “I would buy a copy, read it twice, then tell all my colleagues to run out and grab a copy. This is a book I would never loan because I would worry about it being lost.” —Kevin Ruland, Management Science, MSG-Logistics “The wisdom and practical experience of the authors is obvious. The topics presented are relevant and useful.... By far its greatest strength for me has been the outstanding analogies—tracer bullets, broken windows, and the fabulous helicopter-based explanation of the need for orthogonality, especially in a crisis situation. I have little doubt that this book will eventually become an excellent source of useful information for journeymen programmers and expert mentors alike.” —John Lakos, author of Large-Scale C++ Software Design “This is the sort of book I will buy a dozen copies of when it comes out so I can give it to my clients.” —Eric Vought, Software Engineer “Most modern books on software development fail to cover the basics of what makes a great software developer, instead spending their time on syntax or technology where in reality the greatest leverage possible for any software team is in having talented developers who really know their craft well. An excellent book.” —Pete McBreen, Independent Consultant “Since reading this book, I have implemented many of the practical suggestions and tips it contains. Across the board, they have saved my company time and money while helping me get my job done quicker! This should be a desktop reference for everyone who works with code for a living.” —Jared Richardson, Senior Software Developer, iRenaissance, Inc. “I would like to see this issued to every new employee at my company....” —Chris Cleeland, Senior Software Engineer, Object Computing, Inc. “If I’m putting together a project, it’s the authors of this book that I want. . . . And failing that I’d settle for people who’ve read their book.” —Ward Cunningham Straight from the programming trenches, The Pragmatic Programmer cuts through the increasing specialization and technicalities of modern software development to examine the core process--taking a requirement and producing working, maintainable code that delights its users. It covers topics ranging from personal responsibility and career development to architectural techniques for keeping your code flexible and easy to adapt and reuse. Read this book, and you'll learn how to Fight software rot; Avoid the trap of duplicating knowledge; Write flexible, dynamic, and adaptable code; Avoid programming by coincidence; Bullet-proof your code with contracts, assertions, and exceptions; Capture real requirements; Test ruthlessly and effectively; Delight your users; Build teams of pragmatic programmers; and Make your developments more precise with automation. Written as a series of self-contained sections and filled with entertaining anecdotes, thoughtful examples, and interesting analogies, The Pragmatic Programmer illustrates the best practices and major pitfalls of many different aspects of software development. Whether you're a new coder, an experienced programmer, or a manager responsible for software projects, use these lessons daily, and you'll quickly see improvements in personal productivity, accuracy, and job satisfaction. You'll learn skills and develop habits and attitudes that form the foundation for long-term success in your career. You'll become a Pragmatic Programmer.

Geek Sublime Oct 16 2021 The nonfiction debut from the author of the international bestseller Sacred Games about the surprising overlap between writing and computer coding Vikram Chandra has been a computer programmer for almost as long as he has been a novelist. In this extraordinary new book, his first work of nonfiction, he searches for the connections between the worlds of art and technology. Coders are obsessed with elegance and style, just as writers are, but do the words mean the same thing to both? Can we ascribe beauty to the craft of writing code? Exploring such varied topics as logic gates and literary modernism, the machismo of tech geeks, the omnipresence of an "Indian Mafia" in Silicon Valley, and the writings of the eleventh-century Kashmiri thinker Abhinavagupta, Geek Sublime is both an idiosyncratic history of coding and a fascinating meditation on the writer's art. Part literary essay, part technology story, and part memoir, it is an engrossing, original, and heady book of sweeping ideas.

A Complete Understanding of the Groceries Supply Code of Practice (GSCOP): 76% of Direct Suppliers Don't Understand the Code. Do you? Apr 10 2021 A code of practice was introduced by the UK Government to enable suppliers to fear UK supermarkets less. This code is called GSCOP - The Groceries Supply Code of Practice. Sales Directors, Category Managers, and National Account Managers need to understand the 'rules of the game' that they play in, because how can they call 'foul play' if they don't know the rules? It's ok not to know the off-side rule, unless you are a footballer! This book has been written to help suppliers to to major UK supermarkets to understand the Government legislation that was brought-in to protect them. Christine Tacon, the Groceries Code Adjudicator, challenges suppliers to understand the Code, in this 3.5 minute video https: //www.youtube.com/watch'v=4oEgPaQtcUw This book is designed to raise awareness of the Code with suppliers, highlight the most important areas for a supplier to consider, and be used as a reference to come back to understand, for example, the rules around 'delisting' when they need to

Code Simplicity Feb 26 2020 Good software design is simple and easy to understand. Unfortunately, the average computer program today is so complex that no one could possibly comprehend how all the code works. This concise guide helps you understand the fundamentals of good design through scientific laws—principles you can apply to any programming language or project from here to eternity. Whether you’re a junior programmer, senior software engineer, or non-technical manager, you’ll learn how to create a sound plan for your software project, and make better decisions about the pattern and structure of your system. Discover why good software design has become the missing science Understand the ultimate purpose of software and the goals of good design Determine the value of your design now and in the future Examine real-world examples that demonstrate how a system changes over time Create designs that allow for the most change in the environment with the least change in the software Make easier changes in the future by keeping your code simpler now Gain better knowledge of your software’s behavior with more accurate tests

Code Complete Nov 05 2020 Widely considered one of the best practical guides to programming, Steve McConnell's original CODE COMPLETE has been helping developers write better software for more than a decade. Now this classic book has been fully updated and revised with leading-edge practices—and hundreds of new code samples—illustrating the art and science of software construction. Capturing the body of knowledge available from research, academia, and everyday commercial practice, McConnell synthesizes the most effective techniques and must-know principles into clear, pragmatic guidance. No matter what your experience level, development environment, or project size, this book will inform and stimulate your thinking—and help you build the highest quality code. Discover the timeless techniques and strategies that help you: Design for minimum complexity and maximum creativity Reap the benefits of collaborative development Apply defensive programming techniques to reduce and flush out errors Exploit opportunities to refactor—or evolve—code, and do it safely Use construction practices that are right-weight for your project Debug problems quickly and effectively Resolve critical construction issues early and correctly Build quality into the beginning, middle, and end of your project

Refactoring Jul 21 2019 Refactoring is gaining momentum amongst the object oriented programming community. It can transform the internal dynamics of applications and has the capacity to transform bad code into good code. This book offers an introduction to refactoring.

R for Data Science Mar 29 2020 Learn how to use R to turn raw data into insight, knowledge, and understanding. This book introduces you to R, RStudio, and the tidyverse, a collection of R packages designed to work together to make data science fast, fluent, and fun. Suitable for readers with no previous programming experience, R for Data Science is designed to get you doing data science as quickly as possible. Authors Hadley Wickham and Garrett Grolemund guide you through the steps of importing, wrangling, exploring, and modeling your data and communicating the results. You'll get a complete, big-picture understanding of the data science cycle, along with basic tools you need to manage the details. Each section of the book is paired with exercises to help you practice what you've learned along the way. You'll learn how to: Wrangle—transform your datasets into a form convenient for analysis Program—learn powerful R tools for solving data problems with greater clarity and ease Explore—examine your data, generate hypotheses, and quickly test them Model—provide a low-dimensional summary that captures true "signals" in your dataset Communicate—learn R Markdown for integrating prose, code, and results

Beautiful Code Aug 26 2022 How do the experts solve difficult problems in software development? In this unique and insightful book, leading computer scientists offer case studies that reveal how they found unusual, carefully designed solutions to high-profile projects. You will be able to look over the shoulder of major coding and design experts to see problems through their eyes. This is not simply another design patterns book, or another software engineering treatise on the right and wrong way to do things. The authors think aloud as they work through their project's architecture, the tradeoffs made in its construction, and when it was important to break rules. This book contains 33 chapters contributed by Brian Kernighan, KarlFogel, Jon Bentley, Tim Bray, Elliotte Rusty Harold, Michael Feathers,Alberto Savoia, Charles Petzold, Douglas Crockford, Henry S. Warren,Jr., Ashish Gulhati, Lincoln Stein, Jim Kent, Jack Dongarra and PiotrLuszczek, Adam Kolawa, Greg Kroah-Hartman, Diomidis Spinellis, AndrewKuchling, Travis E. Oliphant, Ronald Mak, Rogerio Atem de Carvalho andRafael Monnerat, Bryan Cantrill, Jeff Dean and Sanjay Ghemawat, SimonPeyton Jones, Kent Dybvig, William Otte and Douglas C. Schmidt, AndrewPatzer, Andreas Zeller, Yukihiro Matsumoto, Arun Mehta, TV Raman,Laura Wingerd and Christopher Seiwald, and Brian Hayes. Beautiful Code is an opportunity for master coders to tell their story. All author royalties will be donated to Amnesty International.

Building Maintainable Software, Java Edition Jun 19 2019 Have you ever felt frustrated working with someone else's code? Difficult-to-maintain source code is a big problem in software development today, leading to costly delays and defects. Be part of the solution. With this practical book, you'll learn 10 easy-to-follow guidelines for delivering Java software that's easy to maintain and adapt. These guidelines have been derived from analyzing hundreds of real-world systems. Written by consultants from the Software Improvement Group (SIG), this book provides clear and concise explanations, with advice for turning the guidelines into practice. Examples for this edition are written in Java, while our companion C# book provides workable examples in that language. Write short units of code: limit the length of methods and constructors Write simple units of code: limit the number of branch points per method Write code once, rather than risk copying buggy code Keep unit interfaces small by extracting parameters into objects Separate concerns to avoid building large classes Couple architecture components loosely Balance the number and size of top-level components in your code Keep your codebase as small as possible Automate tests for your codebase Write clean code, avoiding "code smells" that indicate deeper problems

Test-Driven Development with C++ Jul 01 2020 Learn how to write a simple testing framework and extend it to drive the design of your logging library Key Features Learn how to solve various challenges when testing in C++ with the help of effective solutions Develop a logging library with enhancements Drive better code designs with effective tests Book Description Modern, standard C++ is all that is needed to create a small and practical testing framework that will improve the design of any project. This allows you to think about how the code will be used, which is the first step in designing intuitive interfaces. TDD is a modern balanced software development approach that helps to create maintainable applications, provide modularity in design, and write minimal code that drastically reduces defects. With the help of this book, you'll be able to continue adding value when designs need to change by ensuring that the changes don't break existing tests. In this book, developers working with test-driven development (TDD) will be able to put their knowledge to work by writing a simple testing framework and then using it to drive the design of a logging library. The book will help you enhance your software development skills with test cases. You'll understand how to design and implement test cases. The chapters will also show you how to utilize the TDD approach to be more productive in software development than attempting to code in large unstructured steps. By the end of this book, you'll have gained knowledge of TDD and testing and also built a working logging library. What you will learn Understand how to develop software using TDD Keep the code for the system as error-free as possible Refactor and redesign code confidently Communicate the requirements and behaviors of the code with your team Understand the differences between unit tests and integration tests Use TDD to create a minimal viable testing framework Who this book is for This book is for C++ developers already familiar with and using C++ for daily tasks who want to improve their skillset. You don't need to be an expert but you should already have some knowledge of modern C++ and how to use templates to get the most out of this book.

Coffee Break Python Sep 03 2020 How to learn Python during your coffee break? Coffee Break Python is a new step-by-step system to teach you how to learn Python faster, smarter, and better. You do nothing but solving one practical Python puzzle as you enjoy your morning coffee. Why should you care about puzzle-based learning? Educational research shows that practical low-stake puzzles and tests help you to learn faster, smarter, and better. We used this for coding in Coffee Break Python and our academy Finxter.com. 13,000 online Python students have already improved their coding skills with our unique puzzle-based learning technique: "I very much enjoy your Finxter.com website because it has some real meat to the problems. Thank you so much for doing this project! I love it!" --David C. "Your site is awesome." --Victor A. "I found Finxter.com an excellent tool to brush up on my Python skills. I totally love the setup of playing against the questions - such a wonderful idea --Jesper R. Why should you read this book? As you work through Coffee Break Python, your Python expertise will grow--one coffee at a time. It's packed with 50 Python puzzles, 10 practical learning tips, 5 compressed cheat sheets, and 1 new way to measure your coding skills. You will train wildly important Python topics such as Arithmetic operations: integer & float division, and modular arithmetic; Language elements: branching, loops, keywords, and functions; Data structures: integer, float, string, list, set, dictionary, and graph; Sequence operators: indexing, concatenation, slicing, and built-in functions; Function *arguments: default *, arbitrary *, unpacking *, keyword *; Set operations: lambda, filter, map, and intersection functions; and Algorithms: recursion, Fibonacci, matrix search, bubble sort, quick sort, lexicographical sort, guess & check, binary search, and graph traversal. As a bonus, you will track your individual Python coding skill level throughout the book. Who should read this book? You are slightly beyond beginner-level in Python. For example, You have already experience with another programming language--it's time to tackle Python. You are a professional engineer and want to brush up your Python skills. You are a student and need to get better at Python for academic courses. So how do you spend your Coffee Break? Python!