

WRITE GREAT CODE

VOLUME 2:

THINKING LOW-LEVEL,
WRITING HIGH-LEVEL



Randall Hyde



Write Great Code Volume 2 Thinking Low Level Writing High Level

Randall Hyde



Write Great Code Volume 2 Thinking Low Level Writing High Level:

Write Great Code, Volume 2 Randall Hyde, 2006-03-06 It's a critical lesson that today's computer science students aren't always being taught: How to carefully choose their high-level language statements to produce efficient code. *Write Great Code Volume 2: Thinking Low Level, Writing High Level* shows software engineers what too many college and university courses don't: how compilers translate high-level language statements and data structures into machine code. Armed with this knowledge, they will make informed choices concerning the use of those high-level structures and help the compiler produce far better machine code—all without having to give up the productivity and portability benefits of using a high-level language.

Write Great Code, Volume 2, 2nd Edition Randall Hyde, 2020-08-11 Thinking Low Level, Writing High Level: the second volume in the landmark *Write Great Code* series by Randall Hyde covers high-level programming languages such as Swift and Java as well as code generation on 64-bit CPUs, ARM, the Java Virtual Machine, and the Microsoft Common Runtime. Today's programming languages offer productivity and portability but also make it easy to write sloppy code that isn't optimized for a compiler. Thinking Low Level, Writing High Level will teach you to craft source code that results in good machine code once it's run through a compiler. You'll learn how to analyze the output of a compiler to verify that your code generates good machine code. The types of machine code statements that compilers generate for common control structures so you can choose the best statements when writing HLL code. Enough assembly language to read compiler output. How compilers convert various constant and variable objects into machine data. With an understanding of how compilers work, you'll be able to write source code that they can translate into elegant machine code. NEW TO THIS EDITION: COVERAGE OF programming languages like Swift and Java. Code generation on modern 64-bit CPUs, ARM processors on mobile phones and tablets. Stack-based architectures like the Java Virtual Machine. Modern language systems like the Microsoft Common Language Runtime.

Write Great Code, Volume 2, 2nd Edition Randall Hyde, 2020-08-04 Explains how compilers translate high-level language source code like code written in Python into low-level machine code that the computer can understand to help readers understand how to produce the best low-level computer-readable machine code. In the beginning, most software was written in assembly, the CPU's low-level language, in order to achieve acceptable performance on relatively slow hardware. Early programmers were sparing in their use of high-level language code, knowing that a high-level language compiler would generate crummy low-level machine code for their software. Today, however, many programmers write in high-level languages like Python, C, C++, Java, Swift. The result is often sloppy, inefficient code. But you don't need to give up the productivity and portability of high-level languages in order to produce more efficient software. In this second volume of the *Write Great Code* series, you'll learn how to analyze the output of a compiler to verify that your code does indeed generate good machine code. The types of machine code statements that compilers typically generate for common control structures so you can choose the best statements when writing HLL code. Just enough 80x86 and PowerPC assembly language to read compiler output. How

compilers convert various constant and variable objects into machine data and how to use these objects to write faster and shorter programs NEW TO THIS EDITION COVERAGE OF Programming languages like Swift and Java Code generation on modern 64 bit CPUs ARM processors on mobile phones and tablets Stack based architectures like the Java Virtual Machine Modern language systems like the Microsoft Common Language Runtime With an understanding of how compilers work you ll be able to write source code that they can translate into elegant machine code That understanding starts right here with Write Great Code Volume 2 Thinking Low Level Writing High Level Write Great Code, Vol. 2 Randall Hyde,2004 Provides information on how computer systems operate how compilers work and writing source code **Write Great Code, Volume 1, 2nd Edition** Randall Hyde,2020-07-31 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 Randall Hyde,2004-11-01 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 **Code Craft** Pete Goodliffe,2006-12-06 You know how to write code that works but what about code that s well written and easy to understand And robust and bug free If other programmers looked at your handiwork would they be able to figure out the code s logic and purpose Exceptional programmers have more than just technical know how they adopt the right approach and attitude to development Code Craft

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creating your own UML requirements with use case analysis How to leverage the IEEE documentation standards to create better software This advanced apprenticeship in the skills attitudes and ethics of quality software development reveals the right way to apply engineering principles to programming Hyde will teach you the rules and show you when to break them Along the way he offers illuminating insights into best practices while empowering you to invent new ones Brimming with resources and packed with examples Engineering Software is your go to guide for writing code that will set you apart from your peers

The Book of Visual Basic 2005 Matthew MacDonald, 2006 From the author of the highly acclaimed Book of VB NET comes this comprehensive introduction to Visual Basic 2005 the newest version of Microsoft's popular programming language If you're a developer who is new to the language you will learn to use VB 2005 effectively If you're from the old school of VB but haven't yet made the jump to NET you will be able to make the transition seamlessly And you won't have to wade through boring unnecessary material before you get there This guide covers all the necessities ditching jargon and getting right to the substance of how to Implement object oriented programming with classes interfaces and inheritance Design well behaved multithreaded applications Work with XML file streams and ADO NET the NET toolkit for relational databases Build code driven web pages and rich Windows applications Deploy your applications with snazzy setup programs Conversational in tone and eminently readable this book tackles VB 2005's hot new features and explains how to work with NET but it doesn't water the information down for beginners After a brief overview of changes from VB 6 you'll get real world examples in each chapter that will get you up to speed and ready to perform in the VB 2005 environment Helpful code examples references to additional online material and tips on planning design and architecture round out The Book of Visual Basic 2005 Professional developers who need to master VB 2005 will want this book by their side

Inside the Machine Jon Stokes, 2007 Om hvordan mikroprocessorer fungerer med undersøgelse af de nyeste mikroprocessorer fra Intel IBM og Motorola

The Art of ARM Assembly, Volume 1 Randall Hyde, 2015-02-25 Modern Instructions for 64 Bit ARM CPUs Building on Randall Hyde's iconic series The Art of ARM Assembly delves into programming 64 bit ARM CPUs the powerhouses behind iPhones Macs Chromebooks servers and embedded systems Following a fast paced introduction to the art of programming in assembly and the GNU Assembler Gas specifically you'll explore memory organization data representation and the basic logical operations you can perform on simple data types You'll learn how to define constants write functions manage local variables and pass parameters efficiently You'll explore both basic and advanced arithmetic operations control structures numeric conversions lookup tables and string manipulation in short you'll cover it all You'll also dive into ARM SIMD Neon instructions bit manipulation and macro programming with the Gas assembler as well as how to Declare pointers and use composite data structures like strings arrays and unions Convert simple and complex arithmetic expressions into machine instruction sequences Use ARM addressing modes and expressions to access memory variables Create and use string library functions and build libraries of assembly code using makefiles This hands on guide will help you

master ARM assembly while revealing the intricacies of modern machine architecture You ll learn to write more efficient high level code and gain a deeper understanding of software hardware interactions essential skills for any programmer working with ARM based systems Write Great Code Randall Hyde,2005* **Writing a C Compiler** Nora Sandler,2024-08-20 A fun hands on guide to writing your own compiler for a real world programming language Compilers are at the heart of everything programmers do yet even experienced developers find them intimidating For those eager to truly grasp how compilers work Writing a C Compiler dispels the mystery This book guides you through a fun and engaging project where you ll learn what it takes to compile a real world programming language to actual assembly code Writing a C Compiler will take you step by step through the process of building your own compiler for a significant subset of C no prior experience with compiler construction or assembly code needed Once you ve built a working compiler for the simplest C program you ll add new features chapter by chapter The algorithms in the book are all in pseudocode so you can implement your compiler in whatever language you like Along the way you ll explore key concepts like Lexing and parsing Learn how to write a lexer and recursive descent parser that transform C code into an abstract syntax tree Program analysis Discover how to analyze a program to understand its behavior and detect errors Code generation Learn how to translate C language constructs like arithmetic operations function calls and control flow statements into x64 assembly code Optimization techniques Improve performance with methods like constant folding dead store elimination and register allocation Compilers aren t terrifying beasts and with help from this hands on accessible guide you might even turn them into your friends for life

Write Great Code Vol-2: Thinking Low-Level Writing High-Level Randall Hyde,2006-01-01 If you ve asked someone the secret to writing efficient well written software the answer that you ve probably gotten is learn assembly language programming By learning assembly language programming you learn how the machine really operates and that knowledge will help you write better high level language code A dirty little secret assembly language programmers rarely admit to however is that what you really need to learn is machine organization not assembly language programming Write Great Code the first in a series from assembly language expert Randall Hyde dives right into machine organization without the extra overhead of learning assembly language programming at the same time And since Write Great Code concentrates on the machine organization not assembly language the reader will learn in greater depth those subjects that are language independent and of concern to a high level language programmer Write Great Code will help programmers make wiser choices with respect to programming statements and data types when writing software no matter which language they use

The Book of I2C Randall Hyde,2022-10-11 An extensive practical guide to connecting real world devices to microcontrollers with the popular I2C bus If you work with embedded systems you re bound to encounter the ubiquitous Inter Integrated Circuit bus IIC or I2C a serial protocol for connecting integrated circuits in a computer system In The Book of I2C the first comprehensive guide to this bus bestselling author Randall Hyde draws on 40 years of industry experience to

get you started designing and programming I2C systems Aided by over 100 detailed figures and annotated source code listings you ll learn the I2C implementations of systems like Arduino Teensy and Raspberry Pi as well as variants of the I2C and common I2C peripheral ICs complete with programming examples For hardware hackers electronics hobbyists and software engineers of every skill level the extensive coverage in this book will make it a go to reference when it comes to connecting real world devices to I2C microcontrollers

Wicked Cool Perl Scripts Steve Oualline,2006 Provides information on creating a variety of Perl utilities

Strange Code Ronald T. Kneusel,2022-09-27 Strengthen your overall coding skills by exploring the wonderful wild and often weird world of esoteric languages esolangs Strange Code starts with a dive into the underlying history of programming covering the early computer science concepts like Turing machines and Turing completeness that led to the languages we use today It then explores the realm of atypical programming languages introducing you to the out of the box thinking that comes from these unusual approaches to coding Later chapters address the even more unusual esolangs nearly all of which are like nothing you ve ever seen Finally author Ron Kneusel helps you develop and use two entirely new programming languages You may not apply these languages in your day job but this one of a kind book will motivate you to think differently about what it means to express thought through code while discovering the far flung boundaries of programming You ll learn How to program with pictures using Piet How to write two dimensional programs in Befunge How to implement machine learning algorithms using the text pattern matching language SNOBOL How to decipher Brainfuck code like liliHow to design and create two original programming languages Learning to think in these languages will make you a better more confident programmer

Computer Systems and Software Engineering: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2017-12-01 Professionals in the interdisciplinary field of computer science focus on the design operation and maintenance of computational systems and software Methodologies and tools of engineering are utilized alongside computer applications to develop efficient and precise information databases Computer Systems and Software Engineering Concepts Methodologies Tools and Applications is a comprehensive reference source for the latest scholarly material on trends techniques and uses of various technology applications and examines the benefits and challenges of these computational developments Highlighting a range of pertinent topics such as utility computing computer security and information systems applications this multi volume book is ideally designed for academicians researchers students web designers software developers and practitioners interested in computer systems and software engineering

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