

WRITING SOLID CODE

Microsoft's
Techniques for
Developing
Bug-Free
C Programs



STEVE MAGUIRE

Foreword by Dave Moore
Director of Development, Microsoft Corporation



Writing Solid Code Microsoft Programming Series

B.S. Dhillon



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Writing Solid Code Steve Maguire, 1993 For professional intermediates to advanced C programmers who develop software here is a focused and practical book based on writing bug free programs in C Includes practical solutions to detect mistakes before they become a costly problem Designing Human Systems Steve Hickey, Holly Matthies, Enid Mumford, 2006-06-03 Enid Mumford 1924 2006 was a pioneer in the sociotechnical design of computer systems Prof Mumford s work successfully investigated the introduction and implementation of computer systems by large corporations and governments Mumford s ETHICS approach to software development emphasizes user participation thus avoiding many of the problems of introducing new systems It takes a holistic view of organizations unifying both social and technological solutions This updated edition of Mumford s book *Designing Human Systems* describes how modern agile programming techniques complement the ETHICS method Together the two methods cover both user and developer issues This integrated approach offers an improved methodology for successful software development projects **The Practice of Programming** Brian W. Kernighan, Rob Pike, 1999-02-09 With the same insight and authority that made their book *The Unix Programming Environment* a classic Brian Kernighan and Rob Pike have written *The Practice of Programming* to help make individual programmers more effective and productive The practice of programming is more than just writing code Programmers must also assess tradeoffs choose among design alternatives debug and test improve performance and maintain software written by themselves and others At the same time they must be concerned with issues like compatibility robustness and reliability while meeting specifications *The Practice of Programming* covers all these topics and more This book is full of practical advice and real world examples in C C Java and a variety of special purpose languages It includes chapters on debugging finding bugs quickly and methodically testing guaranteeing that software works correctly and reliably performance making programs faster and more compact portability ensuring that programs run everywhere without change design balancing goals and constraints to decide which algorithms and data structures are best interfaces using abstraction and information hiding to control the interactions between components style writing code that works well and is a pleasure to read notation choosing languages and tools that let the machine do more of the work Kernighan and Pike have distilled years of experience writing programs teaching and working with other programmers to create this book Anyone who writes software will profit from the principles and guidance in *The Practice of Programming* Information Assurance and Security Education and Training Ronald C. Dodge, Lynn Futcher, 2013-07-03 This book constitutes the refereed proceedings of the 8th IFIP WG 11.8 World Conference on Security Education WISE 8 held in Auckland New Zealand in July 2013 It also includes papers from WISE 6 held in Bento Gon alves Brazil in July 2009 and WISE 7 held in Lucerne Switzerland in June 2011 The 34 revised papers presented were carefully reviewed and selected for inclusion in this volume They represent a cross section of applicable research as well as case studies in security education **Modern C++ Programming Learning Path** MARK

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Writing Secure Code David LeBlanc,Michael Howard,2002-12-04 Keep black hat hackers at bay with the tips and techniques in this entertaining eye opening book Developers will learn how to padlock their applications throughout the entire development process from designing secure applications to writing robust code that can withstand repeated attacks to testing applications for security flaws Easily digested chapters reveal proven principles strategies and coding techniques The authors two battle scarred veterans who have solved some of the industry s toughest security problems provide sample code in several languages This edition includes updated information about threat modeling designing a security process

international issues file system issues adding privacy to applications and performing security code reviews It also includes enhanced coverage of buffer overruns Microsoft NET security and Microsoft ActiveX development plus practical checklists for developers testers and program managers Medical Device Reliability and Associated Areas B.S. Dhillon,2000-03-29 Although Reliability Engineering can trace its roots back to World War II its application to medical devices is relatively recent and its treatment in the published literature has been quite limited With the medical device industry among the fastest growing segments of the US economy it is vital that the engineering biomedical manufacturing and design communities have up to date information on current developments tools and techniques Medical Device Reliability and Associated Areas fills this need with broad yet detailed coverage of the field It addresses a variety of topics related directly and indirectly to reliability including human error in health care systems and software quality assurance With emphasis on concepts rather than mathematical rigor a multitude of examples exercises tables and references this is one resource that everyone connected to the medical device industry must have Managing Software Development Samuel Menaker,Sheetal Guttigoli,2014-12-14 New software firms and groups are eager to get their products to market Even small successes and few customers make these companies grow in size Resources are usually tight processes are light lots of code is written for demos and new people are hired on all the time In such an environment it is easy to go astray fast even for experienced people This book identifies the things that make for a successful software development organization and provides some solutions and tools to successfully bootstrap a software development group and keep it running efficiently as it grows big The individual ideas in the article have been tried and tested over many projects and in various companies The book brings together these ideas in an easy to reference package provides links to commonly used freeware and inexpensive tools It also provides some guidelines on how common development practices can be tailored to suit specific needs Game Engine Architecture Jason Gregory,2018-07-20 In this new and improved third edition of the highly popular Game Engine Architecture Jason Gregory draws on his nearly two decades of experience at Midway Electronic Arts and Naughty Dog to present both the theory and practice of game engine software development In this book the broad range of technologies and techniques used by AAA game studios are each explained in detail and their roles within a real industrial strength game engine are illustrated New to the Third Edition This third edition offers the same comprehensive coverage of game engine architecture provided by previous editions along with updated coverage of computer and CPU hardware and memory caches compiler optimizations C language standardization the IEEE 754 floating point representation 2D user interfaces plus an entirely new chapter on hardware parallelism and concurrent programming This book is intended to serve as an introductory text but it also offers the experienced game programmer a useful perspective on aspects of game development technology with which they may not have deep experience As always copious references and citations are provided in this edition making it an excellent jumping off point for those who wish to dig deeper into any particular aspect of the game development process

Key Features Covers both the theory and practice of game engine software development Examples are grounded in specific technologies but discussion extends beyond any particular engine or API Includes all mathematical background needed Comprehensive text for beginners and also has content for senior engineers **Software Development** David J.

Emmick,2008-11-01 This book covers the basics the place to get started It starts with a brief review of computer processing in order to gain an understanding of context It then covers C SQL Server and Networks **Generic Programming** Mehdi

Jazayeri,Rüdiger G.K. Loos,David R. Musser,2003-06-29 This book constitutes the thoroughly refereed post proceedings of the International Seminar on Generic Programming held in Dagstuhl Castle Germany in April May 1998 The 20 revised full papers were carefully reviewed for inclusion in the book As the first book entirely devoted to the new paradigm of generic programming this collection offers topical sections on foundations and methodology comparisons programming methodology language design and applications *Herding Cats* Hank Rainwater,2008-01-01 *Herding Cats A Primer for Programmers*

Who Lead Programmers is a comprehensive guide think of it as a field manual to the management challenges of supervising and leading programmers J Hank Rainwater introduces new and not so new managers to concepts that will encourage them and help them become a strong leaders for their teams You ll learn about the varieties of programmer personality traits and be able match personnel to projects for maximum productivity You ll also learn how to manage your strengths and weaknesses as you improve your leadership skills which will result in dramatic improvements to your teams success In this how to manual that s both practical and thought provoking you ll find several chapters devoted to administrative aspects of your job such as managing meetings hiring and firing and principles of organizing your job for success Rainwater also describes task management software he built that you can use to organize project assignments The source code for this software is available for download once you own the book The chapter on technical leadership which highlights the importance of architecture design and code reviews also illustrates practical applications of leadership and concrete methods useful to any workplace Rainwater shows why things can go wrong for a leader and how to correct career derailing problems as they arise One chapter is devoted to the working relationship that you as a manager have with your boss and it guides you into the best way to respond to the pressures of software project deadlines Numerous other topics are discussed that are a necessity for anyone seeking to manage the peopleware aspects of software development *Herding Cats A Primer for Programmers* Who Lead Programmers is the definitive guide to the challenges and obstacles facing anyone who manages programmers *Windows Developer Power Tools* James Avery,Jim Holmes,2007 A wealth of open and free software is

available today for Windows developers who want to extend the development environment reduce development effort and increase productivity This encyclopedic guide explores more than 100 free and open source tools available to programmers who build applications for Windows desktops and servers **Code Complete** Steve McConnell,2004-06-09 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

Applied Computer Science for GGOS Observatories Alexander N.J. Neidhardt, 2017-08-08 This book combines elementary theory from computer science with real world challenges in global geodetic observation based on examples from the Geodetic Observatory Wettzell Germany It starts with a step by step introduction to developing stable and safe scientific software to run successful software projects The use of software toolboxes is another essential aspect that leads to the application of generative programming An example is a generative network middleware that simplifies communication One of the book's main focuses is on explaining a potential strategy involving autonomous production cells for space geodetic techniques The complete software design of a satellite laser ranging system is taken as an example Such automated systems are then combined for global interaction using secure communication tunnels for remote access The network of radio telescopes is used as a reference Combined observatories form coordinated multi agent systems and offer solutions for operational aspects of the Global Geodetic Observing System GGOS with regard to Industry 4.0

Java for Students Doug Bell, Mike Parr, 2001 Aware that many students need a careful introduction to programming and that they respond well to graphical illustration this concise book adopts a visual approach to programming Throughout the text programs that use graphical images are emphasized to clearly demonstrate all the important programming principles The authors use a spiral approach to programming concepts introducing concepts simply early on then in a more sophisticated way later e.g. objects are integrated throughout five chapters Java for Students emphasizes the use of applets but also shows how to program free standing applications The authors have been careful to put together a text that covers the powerful features of Java and presents the language to students as both a fun and useful tool

Microsoft visual C++ programming with MFC Microsoft Corporation, 1995

Practical Distributed Processing Phillip J. Brooke, Richard F. Paige, 2007-09-05 Distributed processing has a strong theoretical foundation but many day to day practitioners make limited use of the advantages this theory can give them The result includes unreliable systems with obscure and intermittent failures that can cost time money and in extreme cases lives Reliable construction of distributed

and concurrent systems must incorporate theory in practice This book provides a concise presentation of the theory closely linked to the practical realization of these concepts This highly practical presentation contains all the elements needed for a complete development of a distributed system The book includes examples from C Java and Eiffel and sample code is available online Writing Solid Code Steve Maguire,2013

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