

# 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

**N Noddings**



## Writing Solid Code:

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

Writing Solid Code Steve Maguire,2013 Refactoring with C# Matt Eland,2023-11-24 Learn how to improve the maintainability of C code using modern tools and techniques to resolve technical debt while working safely and efficiently with legacy code Key Features Apply a wide range of refactoring techniques using the latest tools and features of C Discover ways to safely improve your code using tests Roslyn analyzers and AI assistance Find ways of communicating technical debt and improving your code in agile and enterprise settings Purchase of the print or Kindle book includes a free PDF eBook Book Description Software projects start as brand new greenfield projects but invariably become muddled in technical debt far sooner than you d expect In Refactoring with C you ll explore what technical debt is and how it arises before walking through the process of safely refactoring C code using modern tooling in Visual Studio and more recent C language features using C 12 and NET 8 This book written by a Microsoft MVP will guide you through the process of refactoring safely through advanced unit testing with XUnit and libraries like Moq Snapper and Scientist NET You ll explore maintainable code through SOLID principles and defensive coding techniques made possible in newer versions of C You ll also find out how to run code analysis and write custom Roslyn analyzers to detect and resolve issues unique to your code The nature of coding is changing and you ll explore how to use AI with the GitHub Copilot Chat to refactor test document and generate code before ending with a discussion about communicating technical debt to leadership and getting organizational buy in to refactor your code in enterprise organizations and in agile teams By the end of this book you ll understand the nature of refactoring and see how you can safely effectively and repeatably pay down the technical debt in your application while adding value to your business What you will learn Understand technical debt its causes and effects and ways to prevent it Explore different ways of refactoring classes methods and lines of code Discover how to write effective unit tests supported by libraries such as Moq Understand SOLID principles and factors that lead to maintainable code Use AI to analyze improve and test code with the GitHub Copilot Chat Apply code analysis and custom Roslyn analyzers to ensure that code stays clean Communicate tech debt and code standards successfully in agile teams Who this book is for This book is for any developer familiar with C who wants to improve the code they work with on a day to day basis While this book will be most beneficial to new developers with only a year or two of experience even senior engineers and engineering managers can make the most of this book by exploring not just the process of refactoring but advanced techniques with libraries like Moq Snapper Scientist NET and writing custom Roslyn analyzers

*WRITING SOLID CODE* STEVE MAGUIRE,2001-05-01

*New Programmer's Survival Manual* Joshua D. Carter,2011-11-15 It s your first day on the new job You ve got the programming chops you re up on the latest tech you re sitting at your workstation now what New Programmer s Survival

Manual gives your career the jolt it needs to get going essential industry skills to help you apply your raw programming talent and make a name for yourself It s a no holds barred look at what really goes on in the office and how to not only survive but thrive in your first job and beyond Programming at industry level requires new skills you ll build programs that dwarf anything you ve done on your own This book introduces you to practices for working on large scale long lived programs at a professional level of quality You ll find out how to work efficiently with your current tools and discover essential new tools But the tools are only part of the story you ve got to get street smart too Succeeding in the corporate working environment requires its own savvy You ll learn how to navigate the office work with your teammates and how to deal with other people outside of your department You ll understand where you fit into the big picture and how you contribute to the company s success You ll also get a candid look at the tougher aspects of the job stress conflict and office politics Finally programming is a job you can do for the long haul This book helps you look ahead to the years to come and your future opportunities either as a programmer or in another role you grow into There s nothing quite like the satisfaction of shipping a product and knowing I built that Whether you work on embedded systems or web based applications in trendy technologies or legacy systems this book helps you get from raw skill to an accomplished professional

*Game Development and Production* Erik Bethke,2003 A handbook for game development with coverage of both team management topics such as task tracking and creating the technical design document and outsourcing strategies for contents such as motion capture and voice over talent It covers various aspects of game development

*Growing Better Software* Marc Brevoort,2008 Based on decades of real life software development experience this book will help you produce best of breed world class software Set up both as a manual and reference this book will help both novice and experienced software developers to take their skills to the next level Learn how to produce lean mean structured code how to keep bugs out of your programs to make your software more user friendly to improve maintainability to troubleshoot your projects and to guarantee software quality

**Microsoft Office XP Developer's Guide** Microsoft Corporation,2001 Exploit powerfully enhanced programmability in Office XP with authoritative information straight from the Microsoft Office development team This hardcore programming reference comes packed with practical roll up your sleeves resources to help you maximize your productivity with development tools for Microsoft Office including the Microsoft Visual Basic RM 6 0 and Microsoft Visual C RM development systems This guide includes coverage of Workflow Solutions for Microsoft SQL Server TM and Microsoft Exchange offering both design and coding examples plus API level coding examples It also covers enhanced support in Microsoft Office XP for Web enabled information sharing and XML Use this incisive coverage to build on what you know and to accomplish everything from automating individual tasks to creating complex vertical market applications Each chapter presents dozens of code examples that illustrate the discussion And the companion CD ROM contains hundreds of procedures you can use right now helping you to focus your creativity on designing solutions rather than on building rudimentary code It s everything

you need to create better business solutions faster     PC 97 Hardware Design Guide ,1997 The PC 97 initiative is the next generation hardware standard for consumer computing from Microsoft This guide offers a unique and comprehensive look at this emerging standard The book and CD provide hardware engineers and device driver developers with the authoritative information they need     Office XP Development with VBA Peter G. Aitken,2002 Learn to optimize Microsoft Office XP applications to save time and increase efficiency across your organization Aitken the author of more than 25 books on computer related topics now offers a complete guide to developing robust business solutions using XP components and Visual Basic for Applications VBA     **Windows/DOS Developer's Journal** ,1995     **Microsoft Visual C++: C language reference** Microsoft Corporation,1995 The new version of Microsoft Visual C is being released with only online documentation so for the thousands who need or simply prefer printed documentation these books are essential This six volume collection contains all the information in the substantial online help system in Microsoft Visual C In book form this information is portable easy to browse and readable     **Advanced Microsoft Visual Basic 5** Mandelbrot Set (International) Limited,1997 Written by leading Visual Basic experts Advanced Microsoft Visual Basic 5 explores the possibilities open to intermediate and advanced developers using Visual Basic as their primary client server development tool The CD ROM contains complete source code and valuable utilities     *Dynamics of Software Development* Jim McCarthy,1995 Opening moves The organization The competition The customer The design Development The middle game Ship mode The launch Appendix Index     **Teach Yourself ANSI C++ in 21 Days** Jesse Liberty,J. Mark Hord,1996 No matter what compiler is used this book teaches C It is a 21 day tutorial on learning one of the most popular programming languages today This text includes a Q A section a Do s and don ts section workshop sections shaded syntax boxes that provide handy reference with short examples and Type Output Analysis icons to dissect code for more thorough explanation

**The Complete Idiot's Guide to a Career in Computer Programming** Jesse Liberty,1999 Describes the job market qualifications career paths and common pitfalls and includes information on interviewing working with employment agencies and resumes     *Software Rx* Rodney C. Wilson,1997 In one neat package this book brings together the best information on every aspect of developing quality software Software Rx introduces a practical phased approach for delivering software quality Walk step by step through the entire process of improving the quality of software within a development organization

**Distributed Application Programming in C++** Randall A. Maddox,2000 Industrial strength code examples strategies and conventions for software engineering with C and UNIX Linux Make the most of advanced C features powerful techniques key tradeoffs CD ROM contains all of the book s real world enterprise proven code As software becomes increasingly distributed high quality infrastructure becomes ever more important Precisely written replete with advanced code examples and based on Randall Maddox extensive experience teaching advanced C this book gives working C developers the insights and sophisticated techniques they need to build superior software infrastructure Maddox begins by introducing the context

required to support a distributed Web application in a Unix environment He then presents the utility classes that illustrate crucial design and implementation issues and serve as building blocks for a distributed software architecture Coverage includes concrete data types templates containers namespaces error handling and an automated solution for the hazards of dynamic memory allocation Maddox reviews C program startup and memory usage in detail laying the groundwork for a full of understanding of multiprocessing multithreading and interprocess communication Unlike most advanced C books Distributed Application Programming in C goes beyond coding introducing superior strategies for enterprise software development Maddox presents key design implementation tradeoffs managing source code organization build time issues the run time environment and more For all professional developers who want to master the use of advanced C features in real world distributed applications MacTech Magazine ,1995 *Game Developer's Marketplace* Ben Sawyer,Alex Dunne,Tor Berg,1998 Provides basic background on different aspects of making games Seventeen chapters discuss the ins and outs of the industry and aspects of designing games financing getting a job console development creating game content dealing with software publishers marketing legal issues and resources for developer tools and programs The CD ROM contains tools such as the source code to Abuse demos from Animatek Goldwave IForce2 0 SDK Miles Sound System demos from RTime and RAD Open GL Sound Forge and a searchable database of industry resources Annotation copyrighted by Book News Inc Portland OR

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