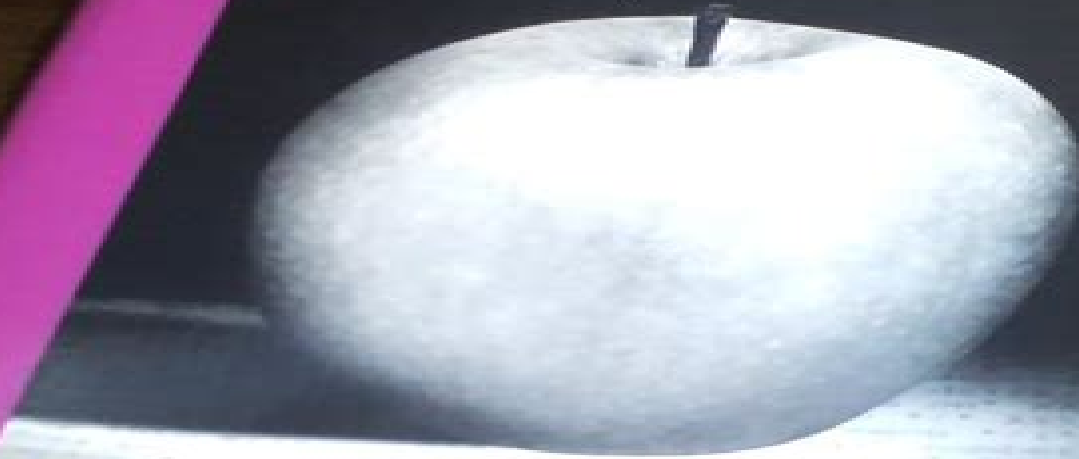


Effective SOFTWARE DEVELOPMENT SERIES
Scott Meyers, Consulting Editor

CODE *Quality*

The Open Source Perspective



Diomidis Spinellis

Code Quality The Open Source Perspective Diomidis Spinellis

Capers Jones, Olivier Bonsignour



Code Quality The Open Source Perspective Diomidis Spinellis:

Code Quality Diomidis Spinellis, 2006-04-03 Page 26 How can I avoid off by one errors Page 143 Are Trojan Horse attacks for real Page 158 Where should I look when my application can't handle its workload Page 256 How can I detect memory leaks Page 309 How do I target my application to international markets Page 394 How should I name my code's identifiers Page 441 How can I find and improve the code coverage of my tests Diomidis Spinellis first book Code Reading showed programmers how to understand and modify key functional properties of software Code Quality focuses on non functional properties demonstrating how to meet such critical requirements as reliability security portability and maintainability as well as efficiency in time and space Spinellis draws on hundreds of examples from open source projects such as the Apache web and application servers the BSD Unix systems and the HSQLDB Java database to illustrate concepts and techniques that every professional software developer will be able to appreciate and apply immediately Complete files for the open source code illustrated in this book are available online at <http://www.spinellis.gr/codequality> Code Quality Spinellis, 2006

Code Reading Diomidis Spinellis, 2003 CD ROM contains cross referenced code **Effective C#** Bill Wagner, 2004-12-03 C's resemblances to C++ and C make it easier to learn but there's a downside C++ programmers often continue to use older techniques when far better alternatives are available In Effective C++ respected NET expert Bill Wagner identifies fifty ways you can start leveraging the full power of C++ in order to write faster more efficient and more reliable software Effective C++ follows the format that made Effective C Addison Wesley 1998 and Effective Java Addison Wesley 2001 indispensable to hundreds of thousands of developers clear practical explanations expert tips and plenty of realistic code examples Drawing on his unsurpassed C++ experience Wagner addresses everything from value types to assemblies exceptions to reflection Along the way he shows exactly how to avoid dozens of common C++ performance and reliability pitfalls You'll learn how to Use both types of C++ constants for efficiency and maintainability see item 2 Use immutable data types to eliminate unnecessary error checking see item 7 Avoid the C++ function that'll practically always get you in trouble see item 10 Minimize garbage collection boxing and unboxing see items 16 and 17 Take full advantage of interfaces and delegates see items 19 through 22 Create CLS compliant assemblies that use noncompliant C++ language features see item 30 Improve reliability and maintainability by creating small cohesive assemblies see item 32 Leverage the full power of NET's runtime diagnostics see item 36 Know when and when not to use reflection see items 42 and 43 Preview the major enhancements in C++ 2.0 see item 49 You're already a successful C++ programmer this book can help you become an outstanding one Bill Wagner is co founder of and NET consultant for SRT Solutions A nationally recognized independent expert on NET he has been a regular contributor to ASP.NET Pro Magazine Visual Studio Magazine and the NET Insight newsletter In addition to being a Microsoft Regional Director he is also active in the Southeast Michigan NET User Group and the Ann Arbor Computing Society He is author of The C++ Core Language Little Black Book The Coriolis Group 2002 Copyright Pearson Education All rights reserved *More Effective C#*

Bill Wagner, 2008-10-01 In *More Effective C* Microsoft C MVP and Regional Director Bill Wagner introduces fifty brand new ways to write more efficient and more robust software. This all new book follows the same format as Wagner's best selling *Effective C* Addison Wesley 2005 providing clear practical explanations, expert tips and plenty of realistic code examples. Wagner shows how to make the most of powerful innovations built into Microsoft's new C# 3.0 and .NET Framework 3.5 as well as advanced C# language capabilities not covered in his previous book. Drawing on his unsurpassed C# experience, the author reveals new best practices for working with LINQ, generics, metaprogramming and many other features. He also uncovers practices that compromise performance or reliability and shows exactly how to avoid them. *More Effective C* shows how to use generics to express your design intent more effectively. Master advanced generics techniques such as constraints, method constraints and generic specialization. Use the multithreaded techniques you'll need to work with the .NET framework every day. Express modern design idioms using the rich palette of C# language features. Successfully mix object oriented and functional programming constructs. Create composable interfaces and avoid confusion in public interfaces. Use extension methods to separate contracts from implementation. Program successfully with C# closures and anonymous types. Write more effective LINQ queries. Make the most of LINQ Lazy Evaluation, Queries and Lambda Expressions. Distinguish and convert between delegates and expression trees. Efficiently utilize nullable types and partial classes. Use implicit properties for mutable nonserializable data. You're already a successful C# programmer, this book can help you become an outstanding one.

Building Maintainable Software, Java Edition Joost Visser, Sylvain Rigal, Rob van der Leek, Pascal van Eck, Gijs Wijnholds, 2016-01-28 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.

Building Maintainable Software Joost Visser, 2016 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 Provided by publisher

Building Maintainable Software, C# Edition Joost Visser, Sylvan Rigal, Gijs Wijnholds, Pascal van Eck, Rob van der Leek, 2016-06-08 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 C 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 C while our companion Java book provides clear 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

Seriously Good Software Marco Faella, 2020-03-05 Summary Serious developers know that code can always be improved With each iteration you make optimizations small and large that can have a huge impact on your application's speed size resilience and maintainability In **Seriously Good Software** Code that Works Survives and Wins author teacher and Java expert Marco Faella teaches you techniques for writing better code You'll start with a simple application and follow it through seven careful refactorings each designed to explore another dimension of quality Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Great code blends the skill of a programmer with the time tested techniques and best practices embraced by the entire development community Although each application has its own context and character some dimensions of quality are always important This book concentrates on seven pillars of seriously good software speed memory usage reliability readability thread safety generality and elegance The Java based examples demonstrate techniques that apply to any OO language About the book **Seriously Good Software** is a handbook for any professional developer serious about improving application quality It explores fundamental dimensions of code quality by enhancing a simple implementation into a robust professional quality application Questions exercises and Java based examples ensure you'll get a firm grasp of the concepts as you go When you finish the last version of the book's central project you'll be able to confidently choose the right optimizations for your code What's inside Evaluating software qualities Assessing trade offs and interactions Fulfilling different objectives in a single task Java based exercises you can apply in any OO language About the reader For developers

with basic object oriented programming skills and intermediate Java skills About the author Marco Faella teaches advanced programming at a major Italian university His published work includes peer reviewed research articles a Java certification manual and a video course

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Jenkins 2.x Continuous Integration Cookbook Mitesh Soni, Alan Mark Berg, 2017-10-30

Get a problem solution approach enriched with code examples for practical and easy comprehension About This Book Explore the use of more than 40 best of breed plug ins for improving efficiency Secure and maintain Jenkins 2 x by integrating it with LDAP and CAS which is a Single Sign on solution Efficiently build advanced pipelines with pipeline as code thus increasing your team s productivity Who This Book Is For If you are a Java developer a software architect a technical project manager a build manager or a development or QA engineer then this book is ideal for you A basic understanding of the software development life cycle and Java development is needed as well as a rudimentary understanding of Jenkins What You Will Learn

- Install and Configure Jenkins 2 x on AWS and Azure
- Explore effective ways to manage and monitor Jenkins 2 x
- Secure Jenkins 2 x using Matrix based Security
- Deploying a WAR file from Jenkins 2 x to Azure App Services and AWS Beanstalk
- Automate deployment of application on AWS and Azure PaaS
- Continuous Testing
- Unit Test Execution
- Functional Testing and Load Testing

In Detail Jenkins 2 x is one of the most popular Continuous Integration servers in the market today It was designed to maintain secure communicate test build and improve the software development process This book will begin by guiding you through steps for installing and configuring Jenkins 2 x on AWS and Azure This is followed by steps that enable you to manage and monitor Jenkins 2 x You will also explore the ways to enhance the overall security of Jenkins 2 x You will then explore the steps involved in improving the code quality using SonarQube Then you will learn the ways to improve quality followed by how to run performance and functional tests against a web application and web services Finally you will see what the available plugins are concluding with best practices to improve quality

Style and approach This book provides a problem solution approach to some common tasks and some uncommon tasks using Jenkins 2 x and is well illustrated with practical code examples

Emerging Free and Open Source Software Practices Sowe, Sulayman K., Stamelos, Ioannis G., Samoladas, Ioannis, 2007-06-30

This book is a collection of empirical research regarding the status of F OSS projects presenting a framework and state of the art references on F OSS projects reporting on case studies covering a wide range of F OSS applications and domains It asserts trends in the evolution of software practices and solutions to the challenges ubiquitous nature free and open source software provides

Provided by publisher

Code Reading Diomidis Spinellis, 2003-05-27

If you are a programmer you need this book You ve got a day to add a new feature in a 34 000 line program Where do you start Page 333 How can you understand and simplify an

inscrutable piece of code Page 39 Where do you start when disentangling a complicated build process Page 167 How do you comprehend code that appears to be doing five things in parallel Page 132 You may read code because you have to to fix it inspect it or improve it You may read code the way an engineer examines a machine to discover what makes it tick Or you may read code because you are scavenging looking for material to reuse Code reading requires its own set of skills and the ability to determine which technique you use when is crucial In this indispensable book Diomidis Spinellis uses more than 600 real world examples to show you how to identify good and bad code how to read it what to look for and how to use this knowledge to improve your own code Fact If you make a habit of reading good code you will write better code yourself

The CERT C Coding Standard Robert C. Seacord,2014 This book is an essential desktop reference for the CERT C coding standard The CERT C Coding Standard is an indispensable collection of expert information The standard itemizes those coding errors that are the root causes of software vulnerabilities in C and prioritizes them by severity likelihood of exploitation and remediation costs Each guideline provides examples of insecure code as well as secure alternative implementations If uniformly applied these guidelines will eliminate the critical coding errors that lead to buffer overflows format string vulnerabilities integer overflow and other common software vulnerabilities [The CERT® C Coding Standard, Second Edition](#) Robert C. Seacord,2014-04-25 At Cisco we have adopted the CERT C Coding Standard as the internal secure coding standard for all C developers It is a core component of our secure development lifecycle The coding standard described in this book breaks down complex software security topics into easy to follow rules with excellent real world examples It is an essential reference for any developer who wishes to write secure and resilient software in C and C Edward D Paradise vice president engineering threat response intelligence and development Cisco Systems Secure programming in C can be more difficult than even many experienced programmers realize To help programmers write more secure code The CERT C Coding Standard Second Edition fully documents the second official release of the CERT standard for secure coding in C The rules laid forth in this new edition will help ensure that programmers code fully complies with the new C11 standard it also addresses earlier versions including C99 The new standard itemizes those coding errors that are the root causes of current software vulnerabilities in C prioritizing them by severity likelihood of exploitation and remediation costs Each of the text s 98 guidelines includes examples of insecure code as well as secure C11 conforming alternative implementations If uniformly applied these guidelines will eliminate critical coding errors that lead to buffer overflows format string vulnerabilities integer overflow and other common vulnerabilities This book reflects numerous experts contributions to the open development and review of the rules and recommendations that comprise this standard Coverage includes Preprocessor Declarations and Initialization Expressions Integers Floating Point Arrays Characters and Strings Memory Management Input Output Environment Signals Error Handling Concurrency Miscellaneous Issues **The CERT C Secure Coding Standard** Robert C. Seacord,2008-10-14 I m an enthusiastic supporter of the CERT Secure Coding Initiative Programmers

have lots of sources of advice on correctness clarity maintainability performance and even safety Advice on how specific language features affect security has been missing The CERT C Secure Coding Standard fills this need Randy Meyers Chairman of ANSI C For years we have relied upon the CERT CC to publish advisories documenting an endless stream of security problems Now CERT has embodied the advice of leading technical experts to give programmers and managers the practical guidance needed to avoid those problems in new applications and to help secure legacy systems Well done Dr Thomas Plum founder of Plum Hall Inc Connectivity has sharply increased the need for secure hacker safe applications By combining this CERT standard with other safety guidelines customers gain all round protection and approach the goal of zero defect software Chris Tapp Field Applications Engineer LDRA Ltd I ve found this standard to be an indispensable collection of expert information on exactly how modern software systems fail in practice It is the perfect place to start for establishing internal secure coding guidelines You won t find this information elsewhere and when it comes to software security what you don t know is often exactly what hurts you John McDonald coauthor of The Art of Software Security Assessment Software security has major implications for the operations and assets of organizations as well as for the welfare of individuals To create secure software developers must know where the dangers lie Secure programming in C can be more difficult than even many experienced programmers believe This book is an essential desktop reference documenting the first official release of The CERT C Secure Coding Standard The standard itemizes those coding errors that are the root causes of software vulnerabilities in C and prioritizes them by severity likelihood of exploitation and remediation costs Each guideline provides examples of insecure code as well as secure alternative implementations If uniformly applied these guidelines will eliminate the critical coding errors that lead to buffer overflows format string vulnerabilities integer overflow and other common software vulnerabilities

Effective Debugging Diomidis Spinellis, 2016-06-29 Every software developer and IT professional understands the crucial importance of effective debugging Often debugging consumes most of a developer s workday and mastering the required techniques and skills can take a lifetime In Effective Debugging Diomidis Spinellis helps experienced programmers accelerate their journey to mastery by systematically categorizing explaining and illustrating the most useful debugging methods strategies techniques and tools Drawing on more than thirty five years of experience Spinellis expands your arsenal of debugging techniques helping you choose the best approaches for each challenge He presents vendor neutral example rich advice on general principles high level strategies concrete techniques high efficiency tools creative tricks and the behavioral traits associated with effective debugging Spinellis s 66 expert techniques address every facet of debugging and are illustrated with step by step instructions and actual code He addresses the full spectrum of problems that can arise in modern software systems especially problems caused by complex interactions among components and services running on hosts scattered around the planet Whether you re debugging isolated runtime errors or catastrophic enterprise system failures this guide will help you get the job done more quickly and with less pain Key features include High

level strategies and methods for addressing diverse software failures Specific techniques to apply when programming compiling and running code Better ways to make the most of your debugger General purpose skills and tools worth investing in Advanced ideas and techniques for escaping dead ends and the maze of complexity Advice for making programs easier to debug Specialized approaches for debugging multithreaded asynchronous and embedded code Bug avoidance through improved software design construction and management

The Economics of Software Quality Capers Jones, Olivier Bonsignour, 2012 Poor quality continues to bedevil large scale development projects but few software leaders and practitioners know how to measure quality select quality best practices or cost justify their usage In *The Economics of Software Quality* leading software quality experts Capers Jones and Jitendra Subramanyam show how to systematically measure the economic impact of quality and how to use this information to deliver far more business value Using empirical data from hundreds of software organizations Jones and Subramanyam show how integrated inspection static analysis and testing can achieve defect removal rates exceeding 95 percent They offer innovative guidance for predicting and measuring defects and quality choosing defect prevention pre test defect removal and testing methods and optimizing post release defect reporting and repair This book will help you Prove that improved software quality translates into strongly positive ROI and greatly reduced TCO Drive better results from current investments in debugging and prevention Use quality techniques to stay on schedule and on budget Avoid hazardous metrics that lead to poor decisions Important note The audio and video content included with this enhanced eBook can be viewed only using iBooks on an iPad iPhone or iPod touch

The Economics of Software Quality, Video Enhanced Edition Capers Jones, Olivier Bonsignour, 2011-12-31 This is the video enhanced eBook version of the printed book It contains 55 minutes of video conversations choosing defect prevention pre test defect removal and testing methods and optimizing post release defect reporting and repair This book will help you Move beyond functional quality to quantify non functional and structural quality Prove that improved software quality translates into strongly positive ROI and greatly reduced TCO Drive better results from current investments in Quality Assurance and Testing Use quality improvement techniques to stay on schedule and on budget Avoid hazardous metrics that lead to poor decisions

Open Source Systems Ernesto Damiani, Brian Fitzgerald, Walt Scacchi, Marco Scotto, 2006-08-29 Early research studies on open source software development often betrayed a mild surprise that loosely coordinated networks of volunteers could manage the design and implementation of highly complex software products In the past few years a wider research community has become increasingly aware of the tremendous contribution that open source development is making to the software industry business and society in general Software engineering researchers are exploring OSS specifically with respect to development tools and methodologies while organizational scientists and economists are keen on understanding how open sources have brought large communities of people to help each other effectively This book is an important step in the direction of a fuller understanding of the OSS phenomenon It collects the proceedings of the Second

International Conference on Open Software held in Como Italy from June 8th to June 10th 2006 OSS 2006 was the foundation conference of the IFIP TC 2 WG 2.13 on Open Source Software and attracted many researchers from all over the world interested in how OSS is produced in its huge innovation potential in many different application fields and in OSS innovative business models The 20 full papers of this volume were selected via a rigorous refereeing process among more than 100 submissions 12 additional submissions in view of their interest were selected for publication in a more concise form

Practical C++ Design Adam B. Singer, 2017-09-27 Go from competent C developer to skilled designer or architect using this book as your C design master class This title will guide you through the design and implementation of a fun engaging case study Starting with a quick exploration of the requirements for building the application you will delve into selecting an appropriate architecture eventually designing and implementing all of the necessary modules to meet the project's requirements By the conclusion of Practical C Design you will have constructed a fully functioning calculator that builds and executes on multiple platforms Access to the complete source code will help speed your learning Utilize the Model View Controller pattern to determine the optimal architecture for the calculator the observer pattern to design an event system the singleton pattern as you design the calculator's central data repository a reusable stack the command pattern to design a command system supporting unlimited undo redo and the abstract factory pattern for a cross platform plugin infrastructure to make the calculator extensible What You Will Learn Read a specification document and translate it into a practical C design Understand trade offs in selecting between alternative design scenarios Gain practical experience in applying design patterns to realistic development scenarios Learn how to effectively use language elements of modern C to create a lasting design Develop a complete C program from a blank canvas through to a fully functioning cross platform application Read modify and extend existing high quality code Learn the fundamentals of API design including class module and plugin interfaces Who This Book Is For The experienced C developer ready to take the next step to becoming a skilled C designer

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