CODE *Reading*

The Open Source Perspective

Diomidis Spinellis

Code Reading The Open Source Perspective

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Code Reading The Open Source Perspective:

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 Reading** Diomidis Spinellis,2003 CD ROM contains cross referenced code **Software Applications: Concepts, Methodologies, Tools, and Applications** Tiako, Pierre F.,2009-03-31 Includes articles in topic areas such as autonomic computing operating system architectures and open source software technologies and applications *Effective C#* Bill Wagner,2004-12-03 C s resemblances to C Java 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 though 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   **The Art and Science of Analyzing Software Data** Christian Bird,Tim Menzies,Thomas Zimmermann,2015-09-02 The Art and Science of Analyzing Software Data provides valuable information on analysis techniques often used to derive insight from software data This book shares best practices in the field generated by leading data scientists collected from their experience training software engineering students and practitioners to master data science The book covers topics such as the analysis of security data code reviews app stores log files and user telemetry among others It covers a wide variety of techniques such as co change analysis text analysis topic analysis and concept analysis as well as advanced topics such as release planning and generation of source code comments It includes stories from the trenches from expert data scientists illustrating how to apply data analysis in industry and open source present results to stakeholders and drive decisions Presents best practices hints and tips to analyze data and apply tools in data science projects Presents research methods and case studies that have emerged over the past few years to further understanding of software data Shares stories from the trenches of successful data science initiatives in industry   **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   **Dr. Dobb's Journal** ,2006   **Dr. Dobb's Journal of Software Tools for the Professional Programmer** ,2003   *C/C++ Users Journal* ,2004   <u>CODE Reading/The open source perspective/オープンソース</u> Diomidis Spinellis,2004 2004 Software Development Productivity

Programming Languages and Methodologies Robert J. Schalkoff,2007 Programming Languages And Methodologies Presents A Mature Well Rounded View Of The Entire Programming Process Intended For The Junior Senior Level Student Who Has Completed Introductory Programming Courses Schalkoff s Text Discusses The More Advanced Programming Topics Including Differing Programming Methodologies Imperative Declarative Functional OO Parallel And Event Driven The Concepts Of Formal Grammars And Syntax The Concepts And Implementation Of Scanning And Parsing And The Concept Of Semantics The Choice Of Topics Included Allows Instructors To Tailor Their Approach To Suit The Needs Of The Course And Provides A Wealth Of Hands On Exercises And Experiences With This Text Instructors Can Support Their Entire Course With Such Public Domain Platforms As Linux Mac OS X Or Windows OS At No Additional Cost To Students Presenting Topics Related To The ACM IEEE Model Curriculum Programming Languages And Methodologies Is The Ideal Text For Your Computer Engineering And Computer Science Students   **Proceedings** ,2005   Software Development ,2006

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