

Robert C. Martin Series

WORKING EFFECTIVELY WITH LEGACY CODE

Michael C. Feathers

Working Effectively With Legacy Code

Mitch Lacey



Working Effectively With Legacy Code:

Working Effectively with Legacy Code Michael C. Feathers, 2004 Michael Feathers offers start to finish strategies for working more effectively with large untested legacy code bases This book draws on material Michael created for his own renowned Object Mentor seminars techniques Michael has used in mentoring to help hundreds of developers technical managers and testers bring their legacy systems under control This book also includes a catalog of twenty four dependency breaking techniques that help you work with program elements in isolation and make safer changes **Working**

Effectively with Legacy Code ,2009 *Working Effectively with Legacy Code, First Edition* Michael Feathers, 2004 Get more out of your legacy systems more performance functionality reliability and manageability Is your code easy to change Can you get nearly instantaneous feedback when you do change it Do you understand it If the answer to any of these questions is no you have legacy code and it is draining time and money away from your development efforts In this book Michael Feathers offers start to finish strategies for working more effectively with large untested legacy code bases This book draws on material Michael created for his renowned Object Mentor seminars techniques Michael has used in mentoring to help hundreds of developers technical managers and testers bring their legacy systems under control The topics covered include Understanding the mechanics of software change adding features fixing bugs improving design optimizing performance Getting legacy code into a test harness Writing tests that protect you against introducing new problems Techniques that can be used with any language or platform with examples in Java C C and C Accurately identifying where code changes need to be made Coping with legacy systems that aren t object oriented Handling applications that don t seem to have any structure This book also includes a catalog of twenty four dependency breaking techniques that help you work with program elements in isolation and make safer changes Copyright Pearson Education All rights reserved **WORKING EFFECTIVELY WITH LEGACY CODE. MICHAEL. FEATHERS, 2020** **Brutal Refactoring** Michael Feathers, 2013-01-01

Working Effectively with Legacy Code Michael Feathers, 2004-09-22 Get more out of your legacy systems more performance functionality reliability and manageability Is your code easy to change Can you get nearly instantaneous feedback when you do change it Do you understand it If the answer to any of these questions is no you have legacy code and it is draining time and money away from your development efforts In this book Michael Feathers offers start to finish strategies for working more effectively with large untested legacy code bases This book draws on material Michael created for his renowned Object Mentor seminars techniques Michael has used in mentoring to help hundreds of developers technical managers and testers bring their legacy systems under control The topics covered include Understanding the mechanics of software change adding features fixing bugs improving design optimizing performance Getting legacy code into a test harness Writing tests that protect you against introducing new problems Techniques that can be used with any language or platform with examples in Java C C and C Accurately identifying where code changes need to be made Coping

with legacy systems that aren't object oriented Handling applications that don't seem to have any structure This book also includes a catalog of twenty four dependency breaking techniques that help you work with program elements in isolation and make safer changes

Mockito Essentials Sujoy Acharya, 2014-10-24 This book is ideal for developers who have some experience in Java application development as well as some basic knowledge of test doubles and JUnit testing This book also introduces you to the fundamentals of JUnit testing test doubles refactoring legacy code and writing JUnit tests for GWT and web services

Robust Python Patrick Viafore, 2021-07-12 Does it seem like your Python projects are getting bigger and bigger Are you feeling the pain as your codebase expands and gets tougher to debug and maintain Python is an easy language to learn and use but that also means systems can quickly grow beyond comprehension Thankfully Python has features to help developers overcome maintainability woes In this practical book author Patrick Viafore shows you how to use Python's type system to the max You'll look at user defined types such as classes and enums and Python's type hinting system You'll also learn how to make Python extensible and how to use a comprehensive testing strategy as a safety net With these tips and techniques you'll write clearer and more maintainable code Learn why types are essential in modern development ecosystems Understand how type choices such as classes dictionaries and enums reflect specific intents Make Python extensible for the future without adding bloat Use popular Python tools to increase the safety and robustness of your codebase Evaluate current code to detect common maintainability gotchas Build a safety net around your codebase with linters and tests

Implementing Lean Software Development Mary Poppendieck, Thomas David Poppendieck, Tom Poppendieck, 2007 This remarkable book combines practical advice ready to use techniques and a deep understanding of why this is the right way to develop software I have seen software teams transformed by the ideas in this book Mike Cohn author of Agile Estimating and Planning As a lean practitioner myself I have loved and used their first book for years When this second book came out I was delighted that it was even better If you are interested in how lean principles can be useful for software development organizations this is the book you are looking for The Poppendiecks offer a beautiful blend of history theory and practice Alan Shalloway coauthor of Design Patterns Explained I've enjoyed reading the book very much I feel it might even be better than the first lean book by Tom and Mary while that one was already exceptionally good Mary especially has a lot of knowledge related to lean techniques in product development and manufacturing It's rare that these techniques are actually translated to software This is something no other book does well except their first book Bas Vodde The new book by Mary and Tom Poppendieck provides a well written and comprehensive introduction to lean principles and selected practices for software managers and engineers It illustrates the application of the values and practices with well suited success stories I enjoyed reading it Roman Pichler In Implementing Lean Software Development the Poppendiecks explore more deeply the themes they introduced in Lean Software Development They begin with a compelling history of lean thinking then move to key areas such as value waste and people Each chapter includes exercises to help you apply key points If you

want a better understanding of how lean ideas can work with software this book is for you Bill Wake independent consultant

In 2003 Mary and Tom Poppendieck's *Lean Software Development* introduced breakthrough development techniques that leverage Lean principles to deliver unprecedented agility and value Now their widely anticipated sequel and companion guide shows exactly how to implement Lean software development hands on This new book draws on the Poppendiecks unparalleled experience helping development organizations optimize the entire software value stream You'll discover the right questions to ask the key issues to focus on and techniques proven to work The authors present case studies from leading edge software organizations and offer practical exercises for jumpstarting your own Lean initiatives Managing to extend nourish and leverage agile practices Building true development teams not just groups Driving quality through rapid feedback and detailed discipline Making decisions Just in Time but no later Delivering fast How PatientKeeper delivers 45 rock solid releases per year Making tradeoffs that really satisfy customers Implementing Lean Software Development is indispensable to anyone who wants more effective development processes managers project leaders senior developers and architects in enterprise IT and software companies alike

The Art of Lean Software Development Curt Hibbs, Steve Jewett, Mike Sullivan, 2009-01-15 This succinct book explains how you can apply the practices of Lean software development to dramatically increase productivity and quality Based on techniques that revolutionized Japanese manufacturing Lean principles are being applied successfully to product design engineering the supply chain and now software development With *The Art of Lean Software Development* you'll learn how to adopt Lean practices one at a time rather than taking on the entire methodology at once As you master each practice you'll see significant measurable results With this book you will Understand Lean's origins from Japanese industries and how it applies to software development Learn the Lean software development principles and the five most important practices in detail Distinguish between the Lean and Agile methodologies and understand their similarities and differences Determine which Lean principles you should adopt first and how you can gradually incorporate more of the methodology into your process Review hands on practices including descriptions benefits trade offs and roadblocks Learn how to sell these principles to management *The Art of Lean Software Development* is ideal for busy people who want to improve the development process but can't afford the disruption of a sudden and complete transformation The Lean approach has been yielding dramatic results for decades and with this book you can make incremental changes that will produce immediate benefits This book presents Lean practices in a clear and concise manner so readers are motivated to make their software more reliable and less costly to maintain I recommend it to anyone looking for an easy to follow guide to transform how the developer views the process of writing good software Bryan Wells Boeing Intelligence Security Systems Mission System If you're new to Lean software development and you're not quite sure where to start this book will help get your development process going in the right direction one step at a time John McClenning software development lead Aclara

Generative AI for Effective Software Development Anh Nguyen-Duc, Pekka

Abrahamsson,Foutse Khomh,2024-05-31 This book provides a comprehensive empirically grounded exploration of how Generative AI is reshaping the landscape of software development It emphasizes the empirical evaluation of Generative AI tools in real world scenarios offering insights into their practical efficacy limitations and impact By presenting case studies surveys and interviews from various software development contexts the book offers a global perspective on the integration of Generative AI highlighting how these advanced tools are adapted to and influence diverse cultural organizational and technological environments This book is structured to provide a comprehensive understanding of Generative AI and its transformative impact on the field of software engineering The book is divided into five parts each focusing on different aspects of Generative AI in software development As an introduction Part 1 presents the fundamentals of Generative AI adoption Part 2 is a collection of empirical studies and delves into the practical aspects of integrating Generative AI tools in software engineering with a focus on patterns methodologies and comparative analyses Next Part 3 presents case studies that showcase the application and impact of Generative AI in various software development contexts Part 4 then examines how Generative AI is reshaping software engineering processes from collaboration and workflow to management and agile development Finally Part 5 looks towards the future exploring emerging trends future directions and the role of education in the context of Generative AI The book offers diverse perspectives as it compiles research and experiences from various countries and software development environments It also offers non technical discussions about Generative AI in management teamwork business and education This way it is intended for both researchers in software engineering and for professionals in industry who want to learn about the impact of Generative AI on software development

Test-Driven Development with Java Alan Mellor,2023-01-13 Drive development with automated tests and gain the confidence you need to write high quality software Key Features Get up and running with common design patterns and TDD best practices Learn to apply the rhythms of TDD arrange act assert and red green refactor Understand the challenges of implementing TDD in the Java ecosystem and build a plan Book Description Test driven development enables developers to craft well designed code and prevent defects It s a simple yet powerful tool that helps you focus on your code design while automatically checking that your code works correctly Mastering TDD will enable you to effectively utilize design patterns and become a proficient software architect The book begins by explaining the basics of good code and bad code bursting common myths and why Test driven development is crucial You ll then gradually move toward building a sample application using TDD where you ll apply the two key rhythms red green refactor and arrange act assert Next you ll learn how to bring external systems such as databases under control by using dependency inversion and test doubles As you advance you ll delve into advanced design techniques such as SOLID patterns refactoring and hexagonal architecture You ll also balance your use of fast repeatable unit tests against integration tests using the test pyramid as a guide The concluding chapters will show you how to implement TDD in real world use cases and scenarios and develop a modern REST microservice backed by a Postgres

database in Java 17 By the end of this book you ll be thinking differently about how you design code for simplicity and how correctness can be baked in as you go What you will learn Discover how to write effective test cases in Java Explore how TDD can be incorporated into crafting software Find out how to write reusable and robust code in Java Uncover common myths about TDD and understand its effectiveness Understand the accurate rhythm of implementing TDD Get to grips with the process of refactoring and see how it affects the TDD process Who this book is for This book is for expert Java developers and software architects crafting high quality software in Java Test Driven Development with Java can be picked up by anyone with a strong working experience in Java who is planning to use Test driven development for their upcoming projects

Continuous Deployment Valentina Servile,2024-07-25 Methods of delivering software are constantly evolving in order to increase speed to market without sacrificing reliability and stability Mastering development end to end from version control to production and building production ready code is now more important than ever Continuous deployment takes it one step further This method for delivering software automates the final step to production and enables faster feedback and safer releases Based on years of work with medium to large organizations at Thoughtworks author Valentina Servile explains how to perform safe and reliable deployments with no manual gate to production You ll learn a framework to perform incremental safe releases during everyday development work structured exclusively around the challenges of continuous deployment in nontrivial distributed systems Complete with interviews and case studies from fellow industry professionals Close the feedback loop and leverage the production environment to manage your end to end development lifecycle efficiently This book helps you Take observability performance test automation and security into account when splitting work into increments Create a daily development plan that takes immediate deployments to production into account Deploy work in progress to production incrementally without causing regressions Use patterns to refactor live functionality and alter persistence layers Test and release features in production using different feature toggle configurations

Test-Driven Python Development Siddharta Govindaraj,2015-04-29 This book is intended for Python developers who want to use the principles of test driven development TDD to create efficient and robust applications In order to get the best out of this book you should have development experience with Python

Middle Tech Paula Bialski,2024-05-21 Contrary to much of the popular discourse not all technology is seamless and awesome some of it is simply good enough In Middle Tech Paula Bialski offers an ethnographic study of software developers at a non flashy non start up corporate tech company Their stories reveal why software isn t perfect and how developers communicate care and compromise to make software work or at least work until the next update Exploring the culture of good enoughness at a technology firm she calls MiddleTech Bialski shows how doing good enough work is a collectively negotiated resistance to the organizational ideology found in corporate software settings Provided by publisher

The Scrum Field Guide Mitch Lacey,2015-12-22 Thousands of organizations are adopting Scrum to transform the way they execute complex projects in software and beyond This guide will give you the

skills and confidence needed to deploy Scrum resulting in high performing teams and satisfied customers Drawing on years of hands on experience helping companies succeed Certified Scrum Trainer CST Mitch Lacey helps you overcome the major challenges of Scrum adoption and the deeper issues that emerge later Extensively revised to reflect improved Scrum practices and tools this edition adds an all new section of tips from the field Lacey covers many new topics including immersive interviewing collaborative estimation and deepening business alignment In 35 engaging chapters you ll learn how to build support and maximize value across your company Now part of the renowned Mike Cohn Signature Series on agile development this pragmatic guide addresses everything from establishing roles and priorities to determining team velocity setting sprint length and conducting customer reviews Coverage includes Bringing teams and new team members on board Creating a workable definition of done Planning for short term wins and removing impediments to success Balancing predictability and adaptability in release planning Running productive daily scrums Fixing failing sprints Accurately costing projects and measuring the value they deliver Managing risks in dynamic Scrum projects Prioritizing and estimating backlogs Working with distributed and offshore teams Institutionalizing improvements and extending agility throughout the organization Packed with real world examples straight from Lacey s experience this book will be invaluable to anyone transitioning to Scrum seeking to improve their early results or trying to get back on track

The Art of Unit Testing, Third Edition Roy Osherove, 2024-03-26 Unit testing is more than just a collection of tools and practices it s a state of mind This bestseller reveals the master s secrets for delivering robust maintainable and trustworthy code Thousands of developers have learned to hone their code quality under the tutelage of The Art of Unit Testing This revised third edition updates an international bestseller to reflect modern development tools and practices as well as to cover JavaScript Inside The Art of Unit Testing Third Edition you will learn how to Create readable maintainable and trustworthy tests Work with fakes stubs mock objects and isolation frameworks Apply simple dependency injection techniques Refactor legacy code with confidence Test both frontend and backend code Effective unit tests streamline your software development process and ensure you deliver consistent high quality code every time With practical examples in JavaScript and Node this hands on guide takes you from your very first unit tests all the way to comprehensive test suites naming standards and refactoring techniques You ll explore test patterns and organization working with legacy code and even untestable code The many tool agnostic examples are presented in JavaScript and carefully designed so that they apply to code written in any language About the technology The art of unit testing is more than just learning the right collection of tools and practices It s about understanding what makes great tests tick finding the right strategy for each unique situation and knowing what to do when the testing process gets messy This book delivers insights and advice that will transform the way you test your software About the book The Art of Unit Testing Third Edition shows you how to create readable and maintainable tests It goes well beyond basic test creation into organization wide test strategies troubleshooting working with legacy code and merciless refactoring You ll love the

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Deciding on test types and strategies Test Entry Exit Points Refactoring legacy code Fakes stubs mock objects and isolation frameworks Object Oriented Functional and Modular testing styles About the reader Examples use JavaScript TypeScript and Node.js About the author Roy Osherove is an internationally recognized expert in unit testing and agile software methodology Vladimir Khorikov is the author of Manning's Unit Testing Principles Practices and Patterns a Pluralsight author and a Microsoft MVP Table of Contents PART 1 1 The basics of unit testing 2 A first unit test PART 2 3 Breaking dependencies with stubs 4 Interaction testing using mock objects 5 Isolation frameworks 6 Unit testing asynchronous code PART 3 7 Trustworthy tests 8 Maintainability PART 4 9 Readability 10 Developing a testing strategy 11 Integrating unit testing into the organization 12 Working with legacy code Appendix Monkey patching functions and modules [The Art of Unit Testing, Third Edition](#) Roy Osherove, Vladimir Khorikov, 2024-03-26 The art of unit testing is more than just learning the right collection of tools and practices It's about understanding what makes great tests tick finding the right strategy for each unique situation and knowing what to do when the testing process gets messy This book delivers insights and advice that will transform the way you test your software The art of unit testing third edition shows you how to create readable and maintainable tests It goes well beyond basic test creation into organization wide test strategies troubleshooting working with legacy code and merciless refactoring You'll love the practical examples and familiar scenarios that make testing come alive as you read This third edition has been updated with techniques specific to object oriented functional and modular coding styles The examples use JavaScript **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

The Agile Testing Collection Janet Gregory, Lisa Crispin, 2015-06-22 A Comprehensive Collection of Agile Testing Best Practices Two Definitive Guides from Leading Pioneers Janet Gregory and Lisa Crispin haven t just pioneered agile testing they have also written two of the field s most valuable guidebooks Now you can get both guides in one indispensable eBook collection today s must have resource for all agile testers teams managers and customers Combining comprehensive best practices and wisdom contained in these two titles The Agile Testing Collection will help you adapt agile testing to your environment systematically improve your skills and processes and strengthen engagement across your entire development team The first title Agile Testing A Practical Guide for Testers and Agile Teams defines the agile testing discipline and roles and helps you choose organize and use the tools that will help you the most Writing from the tester s viewpoint Gregory and Crispin chronicle an entire agile software development iteration and identify and explain seven key success factors of agile testing The second title More Agile Testing Learning Journeys for the Whole Team addresses crucial emerging issues shares evolved practices and covers key issues that delivery teams want to learn more about It offers powerful new insights into continuous improvement scaling agile testing across teams and the enterprise overcoming pitfalls of automation testing in regulated environments integrating DevOps practices and testing mobile embedded and business intelligence systems The Agile Testing Collection will help you do all this and much more Customize agile testing processes to your needs and successfully transition to them Organize agile teams clarify roles hire new testers and quickly bring them up to speed Engage testers in agile development and help agile team members improve their testing skills Use tests and collaborate with business experts to plan features and guide development Design automated tests for superior reliability and easier maintenance Plan just enough balancing small increments with larger feature sets and the entire system Test to identify and mitigate risks and prevent future defects Perform exploratory testing using personas tours

and test charters with session and thread based techniques Help testers developers and operations experts collaborate on shortening feedback cycles with continuous integration and delivery Both guides in this collection are thoroughly grounded in the authors extensive experience and supported by examples from actual projects Now with both books integrated into a single easily searchable and cross linked eBook you can learn from their experience even more easily

Whispering the Strategies of Language: An Emotional Journey through **Working Effectively With Legacy Code**

In a digitally-driven earth wherever displays reign supreme and instant connection drowns out the subtleties of language, the profound secrets and psychological nuances concealed within words often get unheard. However, located within the pages of **Working Effectively With Legacy Code** a captivating literary value blinking with organic emotions, lies an exceptional quest waiting to be undertaken. Penned by a skilled wordsmith, this charming opus encourages readers on an introspective trip, gently unraveling the veiled truths and profound affect resonating within the cloth of every word. Within the emotional depths with this touching review, we shall embark upon a sincere exploration of the book's primary subjects, dissect their fascinating publishing design, and fail to the strong resonance it evokes deep within the recesses of readers' hearts.

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