

Robert C. Martin Series



WORKING EFFECTIVELY WITH LEGACY CODE



Michael C. Feathers

Working Effectively With Legacy Code Robert C Martin

Emily Bache



Working Effectively With Legacy Code Robert C Martin:

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

Effektives Arbeiten mit Legacy Code Michael C. Feathers, 2023-11-03 Können Sie Ihren Code leicht ändern Können Sie fast unmittelbar Feedback bekommen wenn Sie ihn ändern Verstehen Sie ihn Wenn Sie eine dieser Fragen mit nein beantworten arbeiten Sie mit Legacy Code der Geld und wertvolle Entwicklungszeit kostet Michael Feathers erläutert in diesem Buch Strategien für den gesamten Entwicklungsprozess um effizient mit großen ungetesteten Code Basen zu arbeiten Dabei greift er auf erprobtes Material zurück das er für seine angesehenen Object Mentor Seminare entwickelt hat Damit hat er bereits zahlreichen Entwicklern technischen Managern und Testern geholfen ihre Legacy Systeme unter Kontrolle zu bringen Darüber hinaus finden Sie auch einen Katalog mit 24 Techniken zur Aufhebung von Dependencies die Ihnen zeigen wie Sie isoliert mit Programmelementen arbeiten und Code sicherer ändern können Clean Code - Refactoring, Patterns, Testen und Techniken für sauberen Code Robert C. Martin, 2013-12-18 h2 Kommentare Formatierung Strukturierung Fehler Handling und Unit Tests Zahlreiche Fallstudien Best Practices Heuristiken und Code Smells Clean Code Refactoring Patterns Testen und Techniken für sauberen Code Aus dem Inhalt Lernen Sie guten Code von schlechtem zu unterscheiden Sauberen Code schreiben und schlechten Code in guten umwandeln Aussagekräftige Namen sowie gute Funktionen Objekte und Klassen erstellen Code so formatieren strukturieren und kommentieren dass er bestmöglich lesbar ist Ein vollständiges Fehler Handling implementieren ohne die Logik des Codes zu verschleiern Unit Tests schreiben und Ihren Code testgesteuert entwickeln Selbst schlechter Code kann funktionieren Aber wenn der Code nicht sauber ist kann er ein Entwicklungsunternehmen in die Knie zwingen Jedes Jahr gehen unzählige Stunden und beträchtliche Ressourcen verloren weil Code schlecht geschrieben ist Aber das muss nicht sein Mit Clean Code präsentiert Ihnen der bekannte

Software Experte Robert C Martin ein revolutionäres Paradigma mit dem er Ihnen aufzeigt wie Sie guten Code schreiben und schlechten Code bearbeiten Zusammen mit seinen Kollegen von Object Mentor destilliert er die besten Praktiken der agilen Entwicklung von sauberem Code zu einem einzigartigen Buch So können Sie sich die Erfahrungswerte der Meister der Software Entwicklung aneignen die aus Ihnen einen besseren Programmierer machen werden anhand konkreter Fallstudien die im Buch detailliert durchgearbeitet werden Sie werden in diesem Buch sehr viel Code lesen Und Sie werden aufgefordert darüber nachzudenken was an diesem Code richtig und falsch ist Noch wichtiger Sie werden herausgefordert Ihre professionellen Werte und Ihre Einstellung zu Ihrem Beruf zu überprüfen Clean Code besteht aus drei Teilen Der erste Teil beschreibt die Prinzipien Patterns und Techniken die zum Schreiben von sauberem Code benutzt werden Der zweite Teil besteht aus mehreren zunehmend komplexeren Fallstudien An jeder Fallstudie wird aufgezeigt wie Code gesubert wird wie eine mit Problemen behaftete Code Basis in eine solide und effiziente Form umgewandelt wird Der dritte Teil enthält den Ertrag und den Lohn der praktischen Arbeit ein umfangreiches Kapitel mit Best Practices Heuristiken und Code Smells die bei der Erstellung der Fallstudien zusammengetragen wurden Das Ergebnis ist eine Wissensbasis die beschreibt wie wir denken wenn wir Code schreiben lesen und subern Dieses Buch ist ein Muss für alle Entwickler Software Ingenieure Projektmanager Team Leiter oder Systemanalytiker die daran interessiert sind besseren Code zu produzieren ber den Autor Robert C Uncle Bob Martin entwickelt seit 1970 professionell Software Seit 1990 arbeitet er international als Software Berater Er ist Gründer und Vorsitzender von Object Mentor Inc einem Team erfahrener Berater die Kunden auf der ganzen Welt bei der Programmierung in und mit C Java C Ruby OO Design Patterns UML sowie Agilen Methoden und eXtreme Programming helfen *The Coding Dojo Handbook* Emily Bache, 2013-10 This handbook is a collection of concrete ideas for how you can get started with a Coding Dojo where a group of programmers can focus on improving their practical coding skills Clean Code Robert C. Martin, 2008-08-01 Even bad code can function But if code isn't clean it can bring a development organization to its knees Every year countless hours and significant resources are lost because of poorly written code But it doesn't have to be that way Noted software expert Robert C Martin presents a revolutionary paradigm with Clean Code A Handbook of Agile Software Craftsmanship Martin has teamed up with his colleagues from Object Mentor to distill their best agile practice of cleaning code on the fly into a book that will instill within you the values of a software craftsman and make you a better programmer but only if you work at it What kind of work will you be doing You'll be reading code lots of code And you will be challenged to think about what's right about that code and what's wrong with it More importantly you will be challenged to reassess your professional values and your commitment to your craft Clean Code is divided into three parts The first describes the principles patterns and practices of writing clean code The second part consists of several case studies of increasing complexity Each case study is an exercise in cleaning up code of transforming a code base that has some problems into one that is sound and efficient The third part is the payoff a single chapter containing a list of heuristics

and smells gathered while creating the case studies The result is a knowledge base that describes the way we think when we write read and clean code Readers will come away from this book understanding How to tell the difference between good and bad code How to write good code and how to transform bad code into good code How to create good names good functions good objects and good classes How to format code for maximum readability How to implement complete error handling without obscuring code logic How to unit test and practice test driven development This book is a must for any developer software engineer project manager team lead or systems analyst with an interest in producing better code *Computing with Data* Guy Lebanon, Mohamed El-Geish, 2018-11-28 This book introduces basic computing skills designed for industry professionals without a strong computer science background Written in an easily accessible manner and accompanied by a user friendly website it serves as a self study guide to survey data science and data engineering for those who aspire to start a computing career or expand on their current roles in areas such as applied statistics big data machine learning data mining and informatics The authors draw from their combined experience working at software and social network companies on big data products at several major online retailers as well as their experience building big data systems for an AI startup Spanning from the basic inner workings of a computer to advanced data manipulation techniques this book opens doors for readers to quickly explore and enhance their computing knowledge Computing with Data comprises a wide range of computational topics essential for data scientists analysts and engineers providing them with the necessary tools to be successful in any role that involves computing with data The introduction is self contained and chapters progress from basic hardware concepts to operating systems programming languages graphing and processing data testing and programming tools big data frameworks and cloud computing The book is fashioned with several audiences in mind Readers without a strong educational background in CS or those who need a refresher will find the chapters on hardware operating systems and programming languages particularly useful Readers with a strong educational background in CS but without significant industry background will find the following chapters especially beneficial learning R testing programming visualizing and processing data in Python and R system design for big data data stores and software craftsmanship Software Engineering Made Easy Marco Gähler, 2025-07-04 Learn how to write good code for humans This user friendly book is a comprehensive guide to writing clear and bug free code It integrates established programming principles and outlines expert driven rules to prevent you from over complicating your code You ll take a practical approach to programming applicable to any programming language and explore useful advice and concrete examples in a concise and compact form Sections on Single Responsibility Principle naming levels of abstraction testing logic if else interfaces and more reinforce how to effectively write low complexity code While many of the principles addressed in this book are well established it offers you a single resource Software Engineering Made Easy modernizes classic software programming principles with quick tips relevant to real world applications Most importantly it is written with a keen awareness of how humans think The end result is human

readable code that improves maintenance collaboration and debugging critical for software engineers working together to make purposeful impacts in the world What You Will Learn Understand the essence of software engineering Simplify your code using expert techniques across multiple languages See how to structure classes Manage the complexity of your code by using level abstractions Review test functions and explore various types of testing Who This Book Is For Intermediate programmers who have a basic understanding of coding but are relatively new to the workforce Applicable to any programming language but proficiency in C or Python is preferred Advanced programmers may also benefit from learning how to deprogram bad habits and decomplicate their code Qualität in IT-Architekturen Mirko Schrempp,2012-01-18

Qualität von IT Architekturen ist heute so wichtig wie in der Vergangenheit Es ist jedoch ungleich schwieriger geworden sie zu erreichen In der schnelllebigen IT Industrie ist der Anspruch Qualität zu schaffen vorhanden aber die Herausforderungen sind eigentlich nur noch im internationalen Zusammenspiel zu meistern Es steigt die Anzahl der Rahmenrichtlinien Normen und internationalen Standards Aber auch Service Level Agreements gelten inzwischen weltweit und die Gremien der Hersteller wachsen Allein die Koordination dieser Aspekte ist eine immense Aufgabe für das Qualitätsmanagement Dieser shortcut entstand in Kooperation mit dem Business Technology Magazin und befasst sich mit strategischen Perspektiven auf das Qualitätsmanagement Der Text startet mit Wolfgang Boelmanns Blick auf die bekanntesten Mythen die sich rund um QM ranken Uwe Friedrichsen zeigt wie man das Spannungsfeld der Erwartungen zwischen Management und Architekten ausbalanciert und so zu Synergieeffekten gelangt Qualität ist systematisierbar Gernot Starke zeigt Ihnen wie Sie die Weichen stellen für performante benutzerfreundliche und kosteneffiziente Softwareentwicklung Im vierten Kapitel lenkt Nils Wloka noch einmal den Blick auf den wichtigsten Bestandteil gelungener Architekturen der im QM Dschungel manchmal vergessen wird Programmcode The Robert C. Martin Clean Code Collection (Collection) Robert C. Martin,2011-11-10

The Robert C Martin Clean Code Collection consists of two bestselling eBooks Clean Code A Handbook of Agile Software Craftmanship The Clean Coder A Code of Conduct for Professional Programmers In Clean Code legendary software expert Robert C Martin has teamed up with his colleagues from Object Mentor to distill their best agile practice of cleaning code on the fly into a book that will instill within you the values of a software craftsman and make you a better programmer but only if you work at it You will be challenged to think about what's right about that code and what's wrong with it More important you will be challenged to reassess your professional values and your commitment to your craft In The Clean Coder Martin introduces the disciplines techniques tools and practices of true software craftsmanship This book is packed with practical advice about everything from estimating and coding to refactoring and testing It covers much more than technique It is about attitude Martin shows how to approach software development with honor self respect and pride work well and work clean communicate and estimate faithfully face difficult decisions with clarity and honesty and understand that deep knowledge comes with a responsibility to act Readers of this collection will come away understanding How to tell the difference between

good and bad code How to write good code and how to transform bad code into good code How to create good names good functions good objects and good classes How to format code for maximum readability How to implement complete error handling without obscuring code logic How to unit test and practice test driven development What it means to behave as a true software craftsman How to deal with conflict tight schedules and unreasonable managers How to get into the flow of coding and get past writer s block How to handle unrelenting pressure and avoid burnout How to combine enduring attitudes with new development paradigms How to manage your time and avoid blind alleys marshes bogs and swamps How to foster environments where programmers and teams can thrive When to say No and how to say it When to say Yes and what yes really means *Effective Computation in Physics* Anthony Scopatz,Kathryn D. Huff,2015-06-25 More physicists today are taking on the role of software developer as part of their research but software development isn t always easy or obvious even for physicists This practical book teaches essential software development skills to help you automate and accomplish nearly any aspect of research in a physics based field Written by two PhDs in nuclear engineering this book includes practical examples drawn from a working knowledge of physics concepts You ll learn how to use the Python programming language to perform everything from collecting and analyzing data to building software and publishing your results In four parts this book includes Getting Started Jump into Python the command line data containers functions flow control and logic and classes and objects Getting It Done Learn about regular expressions analysis and visualization NumPy storing data in files and HDF5 important data structures in physics computing in parallel and deploying software Getting It Right Build pipelines and software learn to use local and remote version control and debug and test your code Getting It Out There Document your code process and publish your findings and collaborate efficiently dive into software licenses ownership and copyright procedures *Agile Java* Jeff Langr,2005-02-14 Master Java 5 0 and TDD Together Build More Robust Professional Software Master Java 5 0 object oriented design and Test Driven Development TDD by learning them together Agile Java weaves all three into a single coherent approach to building professional robust software systems Jeff Langr shows exactly how Java and TDD integrate throughout the entire development lifecycle helping you leverage today s fastest most efficient development techniques from the very outset Langr writes for every programmer even those with little or no experience with Java object oriented development or agile methods He shows how to translate oral requirements into practical tests and then how to use those tests to create reliable high performance Java code that solves real problems Agile Java doesn t just teach the core features of the Java language it presents coded test examples for each of them This TDD centered approach doesn t just lead to better code it provides powerful feedback that will help you learn Java far more rapidly The use of TDD as a learning mechanism is a landmark departure from conventional teaching techniques Presents an expert overview of TDD and agile programming techniques from the Java developer s perspective Brings together practical best practices for Java TDD and OO design Walks through setting up Java 5 0 and writing your first program Covers all the basics including strings

packages and more Simplifies object oriented concepts including classes interfaces polymorphism and inheritance Contains detailed chapters on exceptions and logging math I O reflection multithreading and Swing Offers seamlessly integrated explanations of Java 5 0 s key innovations from generics to annotations Shows how TDD impacts system design and vice versa Complements any agile or traditional methodology including Extreme Programming XP **Working Effectively with Legacy Code** ,2009 iOS Unit Testing by Example Jon Reid,2020-06-22 Fearlessly change the design of your iOS code with solid unit tests Use Xcode s built in test framework XCTest and Swift to get rapid feedback on all your code including legacy code Learn the tricks and techniques of testing all iOS code especially view controllers UIViewControllers which are critical to iOS apps Learn to isolate and replace dependencies in legacy code written without tests Practice safe refactoring that makes these tests possible and watch all your changes get verified quickly and automatically Make even the boldest code changes with complete confidence Manual code and UI testing get slower the deeper your navigation hierarchy goes It can take several taps just to reach a particular screen never mind the actual workflow tests Automatic unit testing offers such rapid feedback that it can change the rules of development Bring testing to iOS development even for legacy code Use XCTest to write unit tests in Swift for all your code iOS developers typically reserve unit tests for their model classes alone But that approach skips most of the code common to iOS apps especially with UIViewControllers Learn how to unit test these view controllers to expand your unit testing possibilities Since good unit tests form the bedrock for safe refactoring you re empowered to make bold changes Learn how to avoid the most common mistakes Swift programmers make with the XCTest framework Use code coverage to find holes in your test suites Learn how to identify hard dependencies Reshape the design of your code quickly with less risk and less fear **Resilient Infrastructure** Sreevalsa Kolathayar,Chandan Ghosh,Basanta Raj Adhikari,Indrajit Pal,Arpita Mondal,2021-10-28 This book presents the select proceedings of the Virtual Conference on Disaster Risk Reduction VCDRR 2021 This book discusses various relevant topics such as Disaster resilience and Infrastructure Risk reduction and structural measures Evidence based approach for DRR Case studies Numerical modelling and Constructions methods Prevention Methods and Safety Engineering Cross cutting issue in DRR and Infrastructure etc The book is also a comprehensive volume on multi hazards and their management for a sustainable built environment This book will be useful for academicians research scholars and industry professionals working in the area of civil engineering and disaster management Microservices Antonio Bucchiarone,Nicola Dragoni,Schahram Dustdar,Patricia Lago,Manuel Mazzara,Victor Rivera,Andrey Sadovykh,2019-12-11 This book describes in contributions by scientists and practitioners the development of scientific concepts technologies engineering techniques and tools for a service based society The focus is on microservices i e cohesive independent processes deployed in isolation and equipped with dedicated memory persistence tools which interact via messages The book is structured in six parts Part 1 Opening analyzes the new and old challenges including service design and specification data integrity and consistency management and provides the introductory

information needed to successfully digest the remaining parts Part 2 Migration discusses the issue of migration from monoliths to microservices and their loosely coupled architecture Part 3 Modeling introduces a catalog and a taxonomy of the most common microservices anti patterns and identifies common problems It also explains the concept of RESTful conversations and presents insights from studying and developing two further modeling approaches Next Part 4 is dedicated to various aspects of Development and Deployment Part 5 then covers Applications of microservices presenting case studies from Industry 4 0 Netflix and customized SaaS examples Eventually Part 6 focuses on Education and reports on experiences made in special programs both at academic level as a master program course and for practitioners in an industrial training As only a joint effort between academia and industry can lead to the release of modern paradigm based programming languages and subsequently to the deployment of robust and scalable software systems the book mainly targets researchers in academia and industry who develop tools and applications for microservices

Computer Science - CACIC 2020

Patricia Pesado,Jorge Eterovic,2021-05-04 This book constitutes revised selected papers from the 26th Argentine Congress on Computer Science CACIC 2020 held in San Justo Buenos Aires Argentina in October 2020 Due to the COVID 19 pandemic the conference was held in a virtual mode The 21 full papers and 3 short papers presented in this volume were carefully reviewed and selected from a total of 118 submissions They were organized in topical sections named intelligent agents and systems distributed and parallel processing computer technology applied to education graphic computation images and visualization software engineering databases and data mining hardware architectures networks and operating systems innovation in software systems signal processing and real time systems innovation in computer science education computer security and digital governance and smart cities

Legacy Code

Rafael Gómez Blanes,2020-12-01 C mo mejorar de forma sencilla y poco a poco c digo que ha crecido demasiado r pido y quiz de forma desorganizada C mo modernizar una aplicaci n heredada En catorce pasos Rafael G mez Blanes muestra un m todo f cil con el que modernizar con el menor esfuerzo posible un proyecto software que presenta d ficit de buen dise o y con demasiada deuda t cnica Por el autor entre otros de El Libro Negro del Programador n 1 en ventas en Amazon en su categor a The Coder Habits y El Libro Pr ctico del Programador gil www.rafablanes.com

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

Patterns of Agile Practice Adoption Amr Elssamadisy, 2007-06 As more and more people move towards adoption of Agile practices they are looking for guidance and advice on how to adopt Agile successfully Unfortunately many of the questions they have such as Where do I start What specific practices should I adopt How can I adopt incrementally and Where can I expect pitfalls are not adequately addressed This book answers these questions by guiding the reader on crafting their own adoption strategy focused on their business values and environment This strategy is then directly tied to patterns of agile practice adoption that describe how many teams have successfully and unsuccessfully adopted them Business values are also a component of these patterns so your adoption is always focused on addressing your particular environment

C++ Software Design Klaus Iglberger, 2022-09-21 Good software design is essential for the success of your project but designing software is hard to do You need to have a deep understanding of the consequences of design decisions and a good overview of available design alternatives With this book experienced C developers will get a thorough practical and unparalleled overview of software design with this modern language C trainer and consultant Klaus Iglberger explains how you can manage dependencies and abstractions improve changeability and extensibility of software entities and apply and implement modern design patterns to help you take advantage of today's possibilities Software design is the most essential aspect of a software project because it impacts the software's most important properties maintainability changeability and extensibility Learn how to evaluate your code with respect to software design Understand what software design is including design goals such as changeability and extensibility Explore the advantages and disadvantages of each design approach Learn how design patterns help solve problems and express intent Choose the right form of a design pattern to get the most out of its advantages

Decoding **Working Effectively With Legacy Code Robert C Martin**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Working Effectively With Legacy Code Robert C Martin**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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Working Effectively With Legacy Code Robert C Martin Introduction

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