



# WORKING EFFECTIVELY WITH LEGACY CODE



Michael C. Feathers

# Working Effectively With Legacy Code Robert C Martin Series

**Michael Feathers**



## **Working Effectively With Legacy Code Robert C Martin Series:**

**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

**The Software Craftsman** Sandro Mancuso, 2014-12-14 In *The Software Craftsman* Sandro Mancuso explains what craftsmanship means to the developer and his or her organization and shows how to live it every day in your real world development environment Mancuso shows how software craftsmanship fits with and helps students improve upon best practice technical disciplines such as agile and lean taking all development projects to the next level Readers will learn how to change the disastrous perception that software developers are the same as factory workers and that software projects can be run like factories

**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

**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

*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

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

Working Effectively with Legacy Code, 2009

*Managing Agile Projects* Sanjiv Augustine, 2005 Your Hands On In the Trenches Guide to Successfully Leading Agile Projects Agile methods promise to infuse development with unprecedented flexibility speed and value and these promises are attracting IT organizations worldwide However agile methods often fail to clearly define the manager's role and many managers have been reluctant to buy in Now expert project manager Sanjiv Augustine introduces agility from the manager's point of view offering a proven management framework that addresses everything from team building to project control Augustine bridges the disconnect between the assumptions and techniques of traditional and agile management demonstrating why agility is better aligned with today's project realities and how to simplify your transition Using a detailed case study he shows how agile methods can scale to succeed in even the largest projects Defining a high value role for the manager in agile project environments Refocusing on outcomes not rigid plans processes or controls Structuring and building adaptive self organizing organic teams Forming a guiding vision that aligns your team behind a common purpose Empowering your team with the information it needs to succeed Managing the flow of customer value from one creative stage to the next Leveraging your team members strengths as whole persons Implementing full life cycle agility from planning and coding to maintenance and knowledge transfer Customizing agile methods to your unique environment Becoming an adaptive leader who can inspire and energize agile teams Whether you're a technical or business manager *Managing Agile Projects* gives you

all the tools you need to implement agility in your environment and reap its full benefits *Managing Agile Projects* is part of the Robert C Martin series c Copyright Pearson Education All rights reserved *Software Development*, 2004 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 **Leading Lean Software Development** Mary Poppendieck, Tom Poppendieck, 2010 Building on their breakthrough bestseller *Implementing Lean Software Development* the authors show software leaders how to quickly identify the biggest opportunities for improvement in their development organizations Books In Print 2004-2005 Ed Bowker Staff, Staff Bowker, Ed, 2004 Practical Development Environments Matthew B. Doar, Matthew Doar, 2005-09-23 Everyone wants a technical environment for developing their software Containing guidelines for how to create and maintain a development environment this book discusses some of the tools covering different areas such as version control build tools testing tools bug tracking systems documentation environments release tools and maintenance *The Academy*, 1886 The Academy and Literature, 1886 **Dr. Dobb's Journal**, 2000 **Forthcoming Books** Rose Arny, 2004 **Frontiers**, 1984 **VideoHound's Golden Movie Retriever** Jim Craddock, 2004 Reviews movies that are available on DVD or tape Each entry includes title alternate title one to four bone rating year released MPAA rating brief review length format country of origin cast technical personnel awards and made for television cable video designations Academy and Literature Charles Edward Cutts Birch Appleton, Charles Edward Doble, James Sutherland Cotton, Charles Lewis Hind, William Teignmouth Shore, Alfred Bruce Douglas, Ellis Ashmead-Bartlett, Thomas William Hodgson Crosland, 1886

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