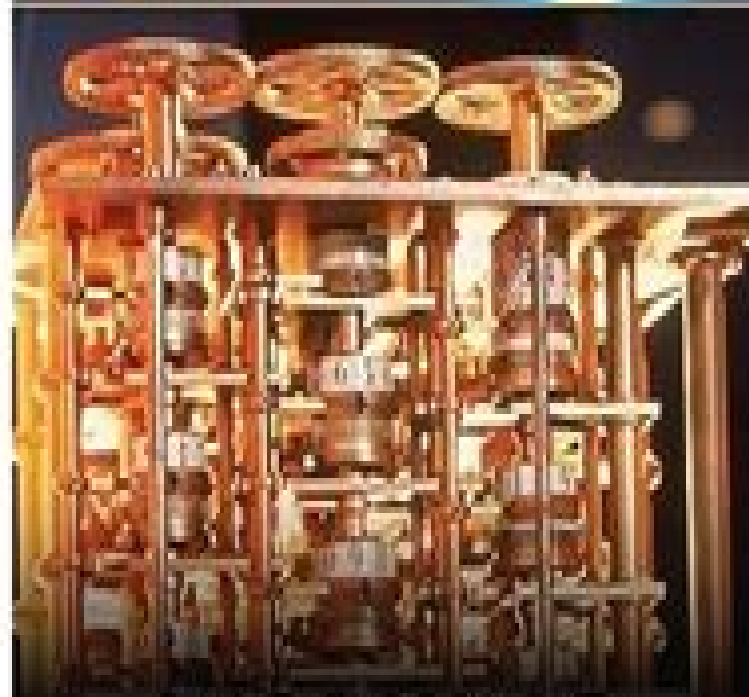


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WORKING EFFECTIVELY WITH LEGACY CODE

Michael C. Feathers

Working Effectively With Legacy Code

Kai Spichale



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 Effektives Arbeiten mit Legacy Code Michael C. Feathers, 2018 **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 *Brutal Refactoring* Michael Feathers, 2013-01-01

WORKING EFFECTIVELY WITH LEGACY CODE. MICHAEL. FEATHERS, 2020 **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

Clean Code Kochbuch

Maximiliano Contieri, 2024-06-25 Code Smells erkennen und mithilfe inspirierender Rezepte beseitigen Ideale Erg nzung zu Robert C Martins Klassiker Clean Code Die eigenen Programmierf higkeiten verbessern durch eine Vielzahl inspirierender Rezepte Beispiele in g ngigen Programmiersprachen wie JavaScript PHP Java Python u v a Bis hin zu komplexen Problemen und anspruchsvollen Refactoring Rezepten Entwickler Software Engineers und Architektinnen die mit einer umfangreichen Codebasis arbeiten m ssen ihren Code effektiv pflegen und erweitern In diesem Kochbuch vermittelt Maximiliano Contieri das Konzept des Clean Code geht aber noch einen Schritt weiter Er zeigt wie Sie Verbesserungspotenziale identifizieren und deren Auswirkungen auf den Produktionscode beurteilen Mithilfe der vorgestellten Techniken kann die Zuverl ssigkeit und Entwicklungsf higkeit der Systeme deutlich verbessert werden Anhand von Beispielen in JavaScript PHP Python Java und vielen anderen Programmiersprachen bietet dieses Kochbuch bew hrte Rezepte die Sie bei der Erweiterung und Wartung gr erer Systeme unterst tzen Contieri beschreibt grundlegende Konzepte wie Lesbarkeit Kopplung Testbarkeit Sicherheit und Erweiterbarkeit sowie Code Smells und Rezepte zu deren Beseitigung Im Verlauf dieses Buches werden die Refactoring Rezepte und die Probleme die sie l sen immer komplexer Sie werden die Vorteile von Clean Code verstehen und lernen wie Sie Verbesserungsm glichkeiten identifizieren Refactoring Techniken Schritt f r Schritt erlernen sich mit der Theorie hinter Clean Code vertraut machen Beispiele aus der Praxis in verschiedenen modernen Programmiersprachen untersuchen in einem Katalog mit Code Smells st bern deren Auswirkungen und L sungsans tze zu ihrer Beseitigung nachvollziehen Code schreiben der auf den Punkt kommt leichter zu lesen und zu verstehen ist

JUnit-Profiwissen Michael Tamm, 2013-12-03 JUnit ist die Standardbibliothek zum Schreiben automatisierter Tests in Java Dieses Buch enth lt Grundlagen und Expertenwissen f r das effiziente Entwickeln automatisierter Tests in Java mit JUnit Es vermittelt einen kompakten berblick ber alle Features von JUnit 3.8.1 bis JUnit 4.11 und zeigt anhand von Beispielen aus Tests bekannter Open Source Projekte wann Sie diese sinnvoll einsetzen k nnen Dar ber hinaus behandelt der Autor Open Source Bibliotheken wie Mockito und FEST die das Schreiben von JUnit Tests erleichtern und verdeutlicht Programmierregeln f r das Schreiben richtig guter Tests Im Einzelnen werden behandelt Testgetriebene Entwicklung Assertion Bibliotheken Unit Tests mit Mock Objekten Programmieren gut verst ndlicher Tests Programmieren schneller Tests Tests abseits vom Happy Path Nichtfunktionale Tests Abgerundet wird das Buch durch Hinweise und Tipps wie Sie JUnit effektiv zusammen mit den bekannten Java IDEs Eclipse und IntelliJ IDEA sowie mit den Build Tools Ant und Maven einsetzen k nnen

Effektive Softwarearchitekturen Gernot Starke, 2015-07-07 EFFEKTIVE SOFTWAREARCHITEKTUREN Aktueller berblick und methodische Einf hrung Direkt umsetzbare Tipps f r praktizierende Softwarearchitekten Ideal zur Vorbereitung auf die Zertifizierung zum Certified Professional for Software Architecture™ Foundation Level des iSAQB Praxisnahe Darstellung von Architekturstilen und mustern ausf hrliche technische Konzepte NoSQL Datenbanken sowie aktualisierte und erweiterte Beispielarchitekturen Neu

in der 7 Auflage Evolution und Verbesserung bestehender Systeme Detaillierte Beispiele zum Einsatz von arc42
Softwarearchitekten müssen komplexe fachliche und technische Anforderungen an IT Systeme umsetzen und sie müssen diese Systeme durch nachvollziehbare Strukturen flexibel und erweiterbar gestalten Dieser Praxisleitfaden zeigt Ihnen wie Sie Softwarearchitekturen effektiv und systematisch entwickeln können Gernot Starke unterstützt Sie mit praktischen Tipps Architekturmustern und seinen Erfahrungen Sie finden Antworten auf zentrale Fragen Welche Aufgaben haben Softwarearchitekten Wie gehe ich beim Entwurf vor Wie kommuniziere und dokumentiere ich Softwarearchitekturen Wie helfen Architekturstile und -muster Wie bewerte ich Softwarearchitekturen Wie behandle ich Persistenz grafische Benutzeroberflächen Geschäftsregeln Integration Verteilung Sicherheit Fehlerbehandlung Business Process Management Microservices und sonstige technische Konzepte Was müssen Softwarearchitekten bei NoSQL Domain Driven Design und arc42 wissen Wie verbessere ich bestehende Systeme AUS DEM INHALT Vorgehen bei der Architekturentwicklung Architekturmuster und -stile Technische Konzepte SOA und Enterprise IT Architektur Architekturbewertung Dokumentation von Architekturen Modellierung für Softwarearchitekten Werkzeuge für Softwarearchitekten Beispiele realer Softwarearchitekturen iSAQB Curriculum Agile Testing Lisa Crispin, Janet Gregory, 2009 Crispin and Gregory define agile testing and illustrate the tester's role with examples from real agile teams They teach you how to use the agile testing quadrants to identify what testing is needed who should do it and what tools might help The book chronicles an agile software development iteration from the viewpoint of a tester and explains the seven key success factors of agile testing

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 Agile Developer Skills Christoph Mathis, Andreas Wintersteiger, 2011-07-15 Viele Unternehmen und Teams haben ihren Entwicklungsprozess umgestellt und agile Softwareentwicklung eingeführt Begleitend zum Prozess müssen aber auch Fähigkeiten und Praktiken

erlernt werden um den Herausforderungen agiler Entwicklungsprozesse insbesondere denen von Scrum gerecht zu werden. Im Gegensatz zu anderen Fachbüchern zum Thema Scrum konzentriert sich dieses Buch auf die Aufgaben des agilen Entwicklerteams. Es führt in die Praktiken sowie richtige Anwendung agiler Entwicklungstechniken ein und beantwortet Fragen zu spezifischen Situationen im Projekt. Das Buch stellt eine Einführung und ein Referenzwerk für jeden agilen Entwickler zu diesen Themen dar: Agile Grundlagen für Entwickler, Scrum, Lean und andere Methoden, Qualität und agile Prozesse, Konfigurationsmanagement für agile Teams, Kontinuierliche Integration, Testen, testgetriebenes Design und Refactoring, Clean Code, Architektur und emergentes Design, Das agile Team, Aufgaben und Situationen im Projekt, Kontinuierliches Lernen, Zusammenarbeit mit Product Owner und Kunden, Arbeiten im Unternehmen. Fundamentals of DevOps and Software Delivery Yevgeniy Brikman, 2025-05-20. This book is a guide to DevOps and software delivery that is a guide to the numerous tools and techniques that are required to take that application code and run it and maintain it in production where it can generate value for your users and your company on an ongoing basis. This includes going through all the modern practices for deploying applications and microservices to the cloud, managing your infrastructure as code, automating your software delivery lifecycle in a CI/CD pipeline, configuring networking, setting up data stores and hooking up monitoring.

Domain-Driven Transformation Carola Lilienthal, Henning Schwentner, 2023-09-04. Der Umbau von IT Landschaften mit Domain Driven Design: kompakter, tiefgehender Einblick in Domain Driven Design (DDD) und die Verwendung der vielfältigen DDD Techniken in der Praxis. Fokussierung auf Legacy Systeme und Migration in Richtung gut strukturierter Monolithen und Microservices. Zusammenhang zwischen Transformation der Architektur und der Teamorganisation. In den letzten Jahrzehnten ist sehr viel Software entwickelt worden, die wir heute modernisieren und zukunftsfit machen wollen. Domain Driven Design (DDD) eignet sich hervorragend, um große Legacy Systeme in Microservices zu zerlegen oder zu wartbaren Monolithen umzubauen. In diesem Transformationsprozess wird der fachliche Kern des Softwaresystems herausgearbeitet. Auf der Makro-Architektur-Ebene wird das System in unabhängige DDD Module aufgeteilt. Auf der Mikro-Architektur-Ebene werden zusätzlich DDD Muster eingesetzt, um den Code weiter zu strukturieren. Dieses Buch kombiniert Anleitungen, Erkenntnisse und Beispiele aus der Beraterpraxis des Autorenteam. Es veranschaulicht, wie Techniken aus DDD und Refactorings verwendet werden können, um Softwaresysteme zu transformieren, die über Jahre gewachsen und möglicherweise ohne Architekturverständnis entwickelt wurden. Die Leserinnen lernen einen Prozess der Transformation kennen, den sie als Ganzes oder schrittweise in ihre Alltagspraxis übernehmen können, um die Wartbarkeit ihrer Legacy Systeme effektiv und schnell zu verbessern. Sie erhalten einen detaillierten Einblick in DDD und die Verwendung der vielfältigen DDD Techniken in der Praxis. Eine Anleitung, wie DDD eingesetzt werden kann, damit Legacy Systeme wartbar bleiben oder wartbarer werden. Eine Anleitung, wie vorzugehen ist, falls eine Zerlegung der Monolithen und eine Neustrukturierung der Microservices geplant ist. Argumente an die Hand, wann eine Zerlegung in Microservices für einen

Monolithen sinnvoll ist und wann nicht *Testwissen für Java-Entwickler* Kai Spichale, 2013-09-09 Eine gute Testsuite mit hoher Testabdeckung verringert nicht nur die Fehlerdichte eines zu entwickelnden Systems sondern bildet auch die Grundlage für Refactorings und Erweiterungen Für die test und verhaltensgetriebene Entwicklung sind Tests ein wichtiges Mittel zum Entwurf eines Systems Im ersten Kapitel des shortcuts werden die Eigenschaften der test und verhaltensgetriebenen Entwicklung vorgestellt Es folgt eine Beschreibung von Best Practices für Unit Tests und Frameworks zur Ergebnisverifikation Das zweite Kapitel widmet sich unterschiedlichen Teststilen denn die in diesem Kapitel verwendeten Tests nutzen zur Verifikation ausschließlich den Zustand der Objekte nicht aber deren Interaktionen bzw Verhalten Das dritte Kapitel fokussiert schließlich die Test und Build Automatisierung um von den Unit und Integrationstests im Rahmen einer kontinuierlichen Integration profitieren zu können *Langlebige Software-Architekturen* Carola Lilienthal, 2024-04-16 Das Standardwerk zur Softwarearchitektur Schließt die Lücke zwischen Softwarearchitektur und Implementierung der Codebasis Einfache und übersichtliche Strukturierung aller wichtigen Grundkonzepte im Bereich der Softwarearchitektur Mit über 200 farbigen Bildern aus real existierenden Softwaresystemen und etlichen Fallbeispielen Je nachdem wo Sie gerade stehen ob Sie ein neues Entwicklungsprojekt planen oder das Ausmaß an technischen Schulden in einem bestehenden System reduzieren wollen in diesem Buch finden Sie die passenden Antworten um zu verhindern dass die Architektur Ihres Systems erodiert die Komplexität zunimmt ständig weitere technische Schulden entstehen und Wartung und Erweiterung immer aufwendiger werden In diesem Buch zeigt Ihnen die Autorin worauf Sie bei der Umsetzung der Architektur achten sollten und welche Prinzipien eingehalten werden müssen damit Sie in Ihren Softwareprojekten langlebige Architekturen entwerfen oder Ihre bestehenden Systeme durch kleine und große Refactorings in langlebige Architekturen überführen können Es werden Muster in Softwarearchitekturen und Mustersprachen sowie verschiedene Architekturstile erläutert und aufgezeigt welche Vorgaben letztlich zu Architekturen führen die für Entwickler noch gut durchschaubar sind Mit über 200 farbigen Bildern aus real existierenden Softwaresystemen und etlichen Fallbeispielen werden schlechte und gute Lösungen verständlich und nachvollziehbar dargestellt Empfehlungen und vielfältige Hinweise aus Praxisprojekten erlauben dem Leser einen direkten Transfer zu seiner täglichen Arbeit In der 4. Auflage wurde dem Thema Modularity Maturity Index MMI ein eigenes Kapitel gewidmet und der Text inhaltlich so erweitert dass der gesamte Algorithmus zur Berechnung des MMI zugänglich wird Nun kann jedes Team den MMI für sein System selbst bestimmen **RESTful Go APIs** Ralf Wirdemann, 2019-04-08 RESTFUL GO APIS Go und REST kompakt alle wesentlichen Konstrukte der Programmiersprache Go und der Prinzipien von REST werden anschaulich und praxisnah erklärt Lernen Sie anhand eines durchgängigen Beispiels wie die Entwicklung von REST APIs in Go funktioniert Erfahren Sie wie die entwickelte API mit Hilfe hexagonaler Architekturprinzipien refaktoriert und testbar gemacht wird Lernen Sie wie die entwickelte API zu einer Hypermedia API wird und damit zu einer echten REST API Erlernen Sie die Grundlagen der Absicherung und Skalierung von APIs in Go und bereiten Sie API so für den

Produktivbetrieb vor Alle bauen APIs Grob gesch tzt bestehen 80% der heute entwickelten Anwendungen im Kern aus einer oder mehreren serverseitigen Komponenten die Geschäftslogik kapseln und diese ihren Clients über eine RESTful API zur Verfügung stellen Ist das REST Paradigma einmal verstanden dann sind REST APIs klar und einfach zu benutzen Go ist eine einfache kompilierte und hoch performante Programmiersprache die sich hervorragend für die Entwicklung von REST APIs eignet Eigenschaften wie leichte Erlernbarkeit ein simples und leistungsfähiges Concurrency Modell sehr guter HTTP REST und JSON Support Cross Plattform Fähigkeit einfaches Deployment sowie hoch performante Binaries zeichnen Go aus Dieses Buch richtet sich an serverseitige Web Entwickler und führt die wesentlichen Aspekte der REST Entwicklung in Go anhand eines zunächst einfachen und im Verlauf des Buches komplexer werdenden Beispiels ein Nach der Lektüre ist der Leser in der Lage produktionsreife REST APIs in Go zu entwickeln zu deployen und zu betreiben Die Wahl des Namens APIs statt Microservices ist Absicht um sich erstens vom gegenwärtigen Hype um Microservices abzusetzen und zweitens auch das große Feld monolithischer Anwendungen mit einzubeziehen Das Buch gliedert sich in drei Teile von denen Teil 1 und 2 unverzichtbar sind Teil 3 hat offenen Charakter und kann im Verlauf der Entstehung wachsen oder sich verkleinern

Modernizing Enterprise Java Markus Eisele,Natale Vinto,2021-10-21 While containers microservices and distributed systems dominate discussions in the tech world the majority of applications in use today still run monolithic architectures that follow traditional development processes This practical book helps developers examine long established Java based models and demonstrates how to bring these monolithic applications successfully into the future Relying on their years of experience modernizing applications authors Markus Eisele and Natale Vinto walk you through the steps necessary to update your organization's Java applications You'll discover how to dismantle your monolithic application and move to an up to date software stack that works across cloud and on premises installations Learn cloud native application basics to understand what parts of your organization's Java based applications and platforms need to migrate and modernize Understand how enterprise Java specifications can help you transition projects and teams Build a cloud native platform that supports effective development without falling into buzzword traps Find a starting point for your migration projects by identifying candidates and staging them through modernization steps Discover how to complement a traditional enterprise Java application with components on top of containers and Kubernetes

Test-Driven Java Development Viktor Farcic,Alex Garcia,2015-08-27 Invoke TDD principles for end to end application development with Java About This Book Explore the most popular TDD tools and frameworks and become more proficient in building applications Create applications with better code design fewer bugs and higher test coverage enabling you to get them to market quickly Implement test driven programming methods into your development workflows Who This Book Is For If you're an experienced Java developer and want to implement more effective methods of programming systems and applications then this book is for you What You Will Learn Explore the tools and frameworks required for effective TDD development Perform the Red Green Refactor process efficiently the pillar around

which all other TDD procedures are based Master effective unit testing in isolation from the rest of your code Design simple and easily maintainable codes by implementing different techniques Use mocking frameworks and techniques to easily write and quickly execute tests Develop an application to implement behaviour driven development in conjunction with unit testing Enable and disable features using Feature Toggles In Detail Test driven development TDD is a development approach that relies on a test first procedure that emphasises writing a test before writing the necessary code and then refactoring the code to optimize it The value of performing TDD with Java one of the most established programming languages is to improve the productivity of programmers the maintainability and performance of code and develop a deeper understanding of the language and how to employ it effectively Starting with the basics of TDD and reasons why its adoption is beneficial this book will take you from the first steps of TDD with Java until you are confident enough to embrace the practice in your day to day routine You ll be guided through setting up tools frameworks and the environment you need and will dive right in to hands on exercises with the goal of mastering one practice tool or framework at a time You ll learn about the Red Green Refactor procedure how to write unit tests and how to use them as executable documentation With this book you ll also discover how to design simple and easily maintainable code work with mocks utilise behaviour driven development refactor old legacy code and release a half finished feature to production with feature toggles You will finish this book with a deep understanding of the test driven development methodology and the confidence to apply it to application programming with Java Style and approach An easy to follow hands on guide to building applications through effective coding practices This book covers practical examples by introducing different problems each one designed as a learning exercise to help you understand each aspect of TDD

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Working Effectively With Legacy Code Introduction

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