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# Growing Object-Oriented Software, Guided by Tests



Robert C. Martin

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# Growing Object Oriented Software Guided By Tests

## Steve Freeman

**James Shore, Shane Warden**



## **Growing Object Oriented Software Guided By Tests Steve Freeman:**

**Growing Object-Oriented Software, Guided by Tests** Steve Freeman, Nat Pryce, 2009-10-12 Test Driven Development TDD is now an established technique for delivering better software faster TDD is based on a simple idea Write tests for your code before you write the code itself However this simple idea takes skill and judgment to do well Now there s a practical guide to TDD that takes you beyond the basic concepts Drawing on a decade of experience building real world systems two TDD pioneers show how to let tests guide your development and grow software that is coherent reliable and maintainable Steve Freeman and Nat Pryce describe the processes they use the design principles they strive to achieve and some of the tools that help them get the job done Through an extended worked example you ll learn how TDD works at multiple levels using tests to drive the features and the object oriented structure of the code and using Mock Objects to discover and then describe relationships between objects Along the way the book systematically addresses challenges that development teams encounter with TDD from integrating TDD into your processes to testing your most difficult features Coverage includes Implementing TDD effectively getting started and maintaining your momentum throughout the project Creating cleaner more expressive more sustainable code Using tests to stay relentlessly focused on sustaining quality Understanding how TDD Mock Objects and Object Oriented Design come together in the context of a real software development project Using Mock Objects to guide object oriented designs Succeeding where TDD is difficult managing complex test data and testing persistence and concurrency

**Die Kunst der agilen Entwicklung** James Shore, 2023-01-04 US Bestseller in 2 Auflage ein Muss f r jeden der mit oder in einem Softwareentwicklungsteam arbeitet leicht zu lesen pragmatisch und umfassend von den agilen Grunds tzen bis hin zu Details bei der agilen Softwareentwicklung hoher Praxisbezug durch zahlreiche Tipps und Fallbeispiele geeignet f r neu startende Projekte und auch bestehende Teams Um agile Entwicklung zu meistern m ssen Sie im Team lernen unzh lge M glichkeiten von Moment zu Moment zu bewerten und intuitiv die beste Vorgehensweise auszuw hlen Dieses Buch beschreibt umfassend und praxisorientiert die Grundlagen Methoden und Praktiken agiler Softwareentwicklung James Shore gibt wertvolle Ratschl ge f r den Projektstart inkrementellen Entwurf Continuous Integration iterative Planung und testgetriebene Entwicklung sowie die Bereitstellung und Refactoring von Software die aus ber zwei Jahrzehnten Erfahrung mit Agilit t stammen Er bringt den State of the Art aus Extreme Programming Scrum Lean DevOps und mehr in ein zusammenh ngendes Ganzes und vermittelt dar ber hinaus dass Agilit t zu meistern auch bedeutet in Abh ngigkeit von Projektgegebenheiten und der Organisation in der Software entwickelt wird Praktiken anzupassen Diese 2 Auflage ist vollst ndig bearbeitet und von Grund auf neu geschrieben worden und ber cksichtigt dabei die Weiterentwicklung auf dem Gebiet der agilen Entwicklung der letzten 14 Jahre Neu aufgenommen wurden Themen wie agile Skalierung DevOps die Arbeit mit Remote Teams sowie das Agile Fluency Model zur Einf hrung und Anpassung von Agilit t an die Bed rfnisse des Unternehmens

*Complete Guide to Test Automation* Arnon Axelrod, 2018-09-22 Rely on this robust

and thorough guide to build and maintain successful test automation As the software industry shifts from traditional waterfall paradigms into more agile ones test automation becomes a highly important tool that allows your development teams to deliver software at an ever increasing pace without compromising quality Even though it may seem trivial to automate the repetitive tester s work using test automation efficiently and properly is not trivial Many test automation endeavors end up in the graveyard of software projects There are many things that affect the value of test automation and also its costs This book aims to cover all of these aspects in great detail so you can make decisions to create the best test automation solution that will not only help your test automation project to succeed but also allow the entire software project to thrive One of the most important details that affects the success of the test automation is how easy it is to maintain the automated tests Complete Guide to Test Automation provides a detailed hands on guide for writing highly maintainable test code What You ll Learn Know the real value to be expected from test automation Discover the key traits that will make your test automation project succeed Be aware of the different considerations to take into account when planning automated tests vs manual tests Determine who should implement the tests and the implications of this decision Architect the test project and fit it to the architecture of the tested application Design and implement highly reliable automated tests Begin gaining value from test automation earlier Integrate test automation into the business processes of the development team Leverage test automation to improve your organization s performance and quality even without formal authority Understand how different types of automated tests will fit into your testing strategy including unit testing load and performance testing visual testing and more Who This Book Is For Those involved with software development such as test automation leads QA managers test automation developers and development managers Some parts of the book assume hands on experience in writing code in an object oriented language mainly C or Java although most of the content is also relevant for nonprogrammers The Art of Unit Testing Roy Osherove,2015 **Growing Object-oriented Software** Steve Freeman,Nat Pryce,2009 **Agile Entwicklungspraktiken mit Scrum** Roman Pichler,Stefan Roock,2011-12-02 Scrum ist ein agiles Management Framework das keine Entwicklungspraktiken empfiehlt oder gar vorschreibt Auswahl und Einsatz der richtigen Praktiken fallen unter die Selbstorganisation des Teams Ohne den Einsatz geeigneter Entwicklungspraktiken und tools ist der Einsatz von Scrum in der Softwareentwicklung jedoch nicht dauerhaft erfolgreich Dieses Buch beschreibt praxisnah die wichtigsten Praktiken wie Architekturvision inkrementeller Entwurf Continuous Integration testgetriebene Entwicklung Refactoring Akzeptanztests sowie modellgetriebene und verteilte Entwicklung mit Scrum **Effective Software Testing** Mauricio Aniche,2022-04-26 Effective Software Testing is a hands on guide to creating bug free software Written for developers it guides you through all the different types of testing from single units up to entire components You ll also learn how to engineer code that facilitates testing and how to write easy to maintain test code Offering a thorough systematic approach this book includes annotated source code samples realistic scenarios and reasoned explanations **The Art of Agile Development** James Shore,Shane

Warden,2021-10-12 Most companies developing software employ something they call Agile But there s widespread misunderstanding of what Agile is and how to use it If you want to improve your software development team s agility this comprehensive guidebook s clear concrete and detailed guidance explains what to do and why and when to make trade offs In this thorough update of the classic Agile how to guide James Shore provides no nonsense advice on Agile adoption planning development delivery and management taken from over two decades of Agile experience He brings the latest ideas from Extreme Programming Scrum Lean DevOps and more into a cohesive whole Learn how to successfully bring Agile development to your team and organization or discover why Agile might not be for you This book explains how to Improve agility create the conditions necessary for Agile to succeed and scale in your organization Focus on value work as a team understand priorities provide visibility and improve continuously Deliver software reliably share ownership decrease development costs evolve designs and deploy continuously Optimize value take ownership of product plans budgets and experiments and produce market leading software

**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 f r Refactorings und Erweiterungen F r 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 f r Unit Tests und Frameworks zur Ergebnisverifikation Das zweite Kapitel widmet sich unterschiedlichen Teststilen denn die in diesem Kapitel verwendeten Tests nutzen zur Verifikation ausschlie lich den Zustand der Objekte nicht aber deren Interaktionen bzw Verhalten Das dritte Kapitel fokussiert schlie lich die Test und Build Automatisierung um von den Unit und Integrationstests im Rahmen einer kontinuierlichen Integration profitieren zu k nnen

*Unit Testing Principles, Practices, and Patterns* Vladimir Khorikov,2020-01-06 This book is an indispensable resource Greg Wright Kainos Software Ltd Radically improve your testing practice and software quality with new testing styles good patterns and reliable automation Key Features A practical and results driven approach to unit testing Refine your existing unit tests by implementing modern best practices Learn the four pillars of a good unit test Safely automate your testing process to save time and money Spot which tests need refactoring and which need to be deleted entirely Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About The Book Great testing practices maximize your project quality and delivery speed by identifying bad code early in the development process Wrong tests will break your code multiply bugs and increase time and costs You owe it to yourself and your projects to learn how to do excellent unit testing Unit Testing Principles Patterns and Practices teaches you to design and write tests that target key areas of your code including the domain model In this clearly written guide you learn to develop professional quality tests and test suites and integrate testing throughout the application life cycle As you adopt a testing mindset you ll be amazed at how better tests cause you to write better code What You Will Learn

Universal guidelines to assess any unit test Testing to identify and avoid anti patterns Refactoring tests along with the production code Using integration tests to verify the whole system This Book Is Written For For readers who know the basics of unit testing Examples are written in C and can easily be applied to any language About the Author Vladimir Khorikov is an author blogger and Microsoft MVP He has mentored numerous teams on the ins and outs of unit testing Table of Contents PART 1 THE BIGGER PICTURE 1 The goal of unit testing 2 What is a unit test 3 The anatomy of a unit test PART 2 MAKING YOUR TESTS WORK FOR YOU 4 The four pillars of a good unit test 5 Mocks and test fragility 6 Styles of unit testing 7 Refactoring toward valuable unit tests PART 3 INTEGRATION TESTING 8 Why integration testing 9 Mocking best practices 10 Testing the database PART 4 UNIT TESTING ANTI PATTERNS 11 Unit testing anti patterns *Effective Testing with RSpec* 3 Myron Marston,Ian Dees,2017-08-30 Our tests are broken again Why does the suite take so long to run What value are we getting from these tests anyway Solve your testing problems by building and maintaining quality software with RSpec the popular BDD flavored Ruby testing framework This definitive guide from RSpec s lead developer shows you how to use RSpec to drive more maintainable designs specify and document expected behavior and prevent regressions during refactoring Build a project using RSpec to design describe and test the behavior of your code Whether you re new to automated tests or have been using them for years this book will help you write more effective tests RSpec has been downloaded more than 100 million times and has inspired countless test frameworks in other languages Use this influential Ruby testing framework to iteratively develop a project with the confidence that comes from well tested code This book guides you through creating a Ruby project with RSpec and explores the individual components in detail Start by learning the basics of installing and using RSpec Then build a real world JSON API using RSpec throughout the process to drive a BDD style outside in workflow Apply an effective test strategy to write fast robust tests that support evolutionary design through refactoring The rest of the book provides the definitive guide to RSpec s components Use rspec core s metadata to slice and dice your spec suite Dig into rspec expectations matchers compose them in flexible ways specify expected outcomes with precision and diagnose problems quickly with the help of good failure messages Write fast isolated tests with rspec mocks test doubles while pushing your code toward simpler interfaces The authors with a combined 20 years of automated testing experience share testing wisdom that will lead to a fun productive testing experience What You Need To follow along with the book you ll need Ruby 2.2 The book will guide you through installing RSpec 3 and setting up a new project to use it

**React in Action** Mark Thomas,2018-05-28 Summary React in Action introduces front end developers to the React framework and related tools This clearly written example rich book begins by introducing you to React diving into some of the fundamental ideas in React and working with components In the second section you ll explore the different ways that data works in React as well as learning more about components You ll also find several useful appendixes covering related topics like React tooling and the React ecosystem Purchase of the print book includes a free eBook in PDF Kindle and ePub

formats from Manning Publications About the Technology Facebook created React to help deliver amazing user experiences on a website with thousands of components and an incomprehensible amount of traffic The same powerful tools are available to you too The key is a clever design for managing state data flow and rendering so your application is easy to think about and runs smoothly Add an incredibly rich ecosystem of components and libraries and you've got a recipe for building web apps that will delight both developers and users About the Book React in Action teaches you to think like a pro about user interfaces and building them with React This practical book gets you up and running quickly with hands-on examples in every chapter You'll master core topics like rendering lifecycle methods JSX data flow forms routing integrating with third-party libraries and testing And the included application design ideas will help make your apps pop As you learn to integrate React into full-stack applications you'll explore state management with Redux and server-side rendering and even dabble in React Native for mobile UIs What's Inside React from the ground up Implementing a routing system with components Server-side rendering in Node.js Working with third-party libraries Testing React components About the Reader Written for developers familiar with HTML CSS and JavaScript About the Author Mark Thomas is an experienced software engineer who works daily with React JavaScript and Node.js He loves clean code beautiful systems and good coffee Table of Contents PART 1 MEET REACT Meet React Our first component PART 2 COMPONENTS AND DATA IN REACT Data and data flow in React Rendering and lifecycle methods in React Working with forms in React Integrating third-party libraries with React Routing in React More routing and integrating Firebase Testing React components PART 3 REACT APPLICATION ARCHITECTURE Redux application architecture More Redux and integrating Redux with React React on the server and integrating React Router An introduction to React Native

**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, busting 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 *The Power of Go: Tests* John Arundel,2022-09-06 What does it mean to program with confidence How do you build self testing software What even is a test anyway Bestselling Go writer and teacher John Arundel tackles these questions and many more in his follow up to the highly successful *The Power of Go Tools* Welcome to the thrilling world of fuzzy mutants and spies guerilla testing mocks and crocks design smells mirage tests deep abstractions exploding pointers sentinels and six year old astronauts coverage ratchets and golden files singletons and walking skeletons canaries and smelly suites flaky tests and concurrent callbacks fakes CRUD methods infinite defects brittle tests wibbly wobbly timey wimey stuff adapters and ambassadors tests that fail only at midnight and gremlins that steal from the player during the hours of darkness If you get fired as a result of applying the advice in this book then that s probably for the best all things considered But if it happens I ll make it my personal mission to get you a job with a better company one where people are rewarded not punished for producing software that actually works Go s built in support for testing puts tests front and centre of any software project from command line tools to sophisticated backend servers and APIs This accessible amusing book will introduce you to all Go s testing facilities show you how to use them to write tests for the trickiest things and distils the collected wisdom of the Go community on best practices for testing Go programs Crammed with hundreds of code examples the book uses real tests and real problems to show you exactly what to do step by step You ll learn how to use tests to design programs that solve user problems how to build reliable codebases on solid foundations and how tests can help you tackle horrible bug riddled legacy codebases and make them a nicer place to live From choosing informative behaviour focused names for your tests to clever powerful techniques for managing test dependencies like databases and concurrent servers *The Power of Go Tests* has everything you need to master the art of testing in Go

*Facilitating Software Architecture* Andrew Harmel-Law,2024-11-08 The software architect role is evolving As systems and their interactions with the teams that build run and evolve them become more complex it s often impossible for those playing the traditional architect roles to be everywhere they need to be There s simply too much architecture to be done and the situation has reached a breaking point There s a better way Author Andrew Harmel Law shows you how architects and development teams can collaborate to create and evolve more efficient architectures for their systems Techniques in this



book will help you learn how to create a mindset that allows everyone to practice architecture and build the best systems they've ever experienced. With this book you will understand the new dynamics that affect modern software delivery. Learn a methodology that brings software architecture and development together. Nurture the fundamental interplay of decisions, advice, architecture, and feedback from running systems. Initiate practices that maximize benefits and mitigate risks. Create an approach tuned to architecture, everyone's skills, and your organization's culture.

*The Cucumber for Java Book* Seb Rose, Matt Wynne, Aslak Hellesøy, 2015-02-06. Teams working on the JVM can now say goodbye forever to misunderstood requirements, tedious manual acceptance tests, and out of date documentation. Cucumber, the popular open source tool that helps teams communicate more effectively with their customers, now has a Java version, and our bestselling Cucumber Book has been updated to match. The Cucumber for Java Book has the same great advice about how to deliver rock-solid applications collaboratively, but with all code completely rewritten in Java. New chapters cover features unique to the Java version of Cucumber and reflect insights from the Cucumber team since the original book was published. Until now it's been difficult for teams developing Java applications to learn how to benefit from Behaviour Driven Development (BDD). This book changes all that by describing in detail how to use Cucumber to harness the power of plain language specifications in your development process. In part 1 you'll discover how to use Cucumber's Gherkin DSL to describe the behavior your customers want from the system. You'll also learn how to write Java code that interprets those plain language specifications and checks them against your application. Part 2 guides you through a worked example using Spring, MySQL, and Jetty. Enhanced chapters teach you how to use Selenium to drive your application and handle asynchronous Ajax calls, and new chapters cover Dependency Injection (DI) and advanced techniques to help keep your test suites fast. Part 3 shows you how to integrate Cucumber with your Continuous Integration (CI) system, work with a REST web service, and even use BDD with legacy applications. Written by the creator of Cucumber and two of its most experienced users and contributors, *The Cucumber for Java Book* is an authoritative guide that will give you and your team all the knowledge you need to start using Cucumber with confidence.

**Hello, Startup** Yevgeniy Brikman, 2015-10-21. This book is the Hello World tutorial for building products, technologies, and teams in a startup environment. It's based on the experiences of the author, Yevgeniy Jim Brikman, as well as interviews with programmers from some of the most successful startups of the last decade, including Google, Facebook, LinkedIn, Twitter, GitHub, Stripe, Instagram, AdMob, Pinterest, and many others. *Hello Startup* is a practical how-to guide that consists of three parts: Products, Technologies, and Teams. Although at its core this is a book for programmers by programmers only, Part II, Technologies, is significantly technical, while the rest should be accessible to technical and non-technical audiences alike. If you're at all interested in startups, whether you're a programmer at the beginning of your career, a seasoned developer bored with large company politics, or a manager looking to motivate your engineers, this book is for you.

Software Architecture in Practice Len Bass, Paul Clements, Rick Kazman, 2012-09-25. The award-winning and highly

influential Software Architecture in Practice Third Edition has been substantially revised to reflect the latest developments in the field In a real world setting the book once again introduces the concepts and best practices of software architecture how a software system is structured and how that system s elements are meant to interact Distinct from the details of implementation algorithm and data representation an architecture holds the key to achieving system quality is a reusable asset that can be applied to subsequent systems and is crucial to a software organization s business strategy The authors have structured this edition around the concept of architecture influence cycles Each cycle shows how architecture influences and is influenced by a particular context in which architecture plays a critical role Contexts include technical environment the life cycle of a project an organization s business profile and the architect s professional practices The authors also have greatly expanded their treatment of quality attributes which remain central to their architecture philosophy with an entire chapter devoted to each attribute and broadened their treatment of architectural patterns If you design develop or manage large software systems or plan to do so you will find this book to be a valuable resource for getting up to speed on the state of the art Totally new material covers Contexts of software architecture technical project business and professional Architecture competence what this means both for individuals and organizations The origins of business goals and how this affects architecture Architecturally significant requirements and how to determine them Architecture in the life cycle including generate and test as a design philosophy architecture conformance during implementation architecture and testing and architecture and agile development Architecture and current technologies such as the cloud social networks and end user devices

*Java to Kotlin* Duncan McGregor,Nat Pryce,2021-08-15 It takes a week to travel the 8 000 miles overland from Java to Kotlin If you re an experienced Java developer who has tried the Kotlin language you were probably productive in about the same time You ll have found that they do things differently in Kotlin though Nullability is important collections are different and classes are final by default Kotlin is more functional but what does that mean and how should it change the way that you program And what about all that Java code that you still have to support Your tour guides Duncan and Nat first made the trip in 2015 and they ve since helped many teams and individuals follow in their footsteps Travel with them as they break the route down into legs like Optional to Nullable Beans to Values and Open to Sealed Classes Each explains a key concept and then shows how to refactor production Java to idiomatic Kotlin gradually and safely while maintaining interoperability The resulting code is simpler more expressive and easier to change By the end of the journey you ll be confident in refactoring Java to Kotlin writing Kotlin from scratch and managing a mixed language codebase as it evolves over time

**Code That Fits in Your Head** Mark Seemann,2021-11-02 How to Reduce Code Complexity and Develop Software More Sustainably Mark Seemann is well known for explaining complex concepts clearly and thoroughly In this book he condenses his wide ranging software development experience into a set of practical pragmatic techniques for writing sustainable and human friendly code This book will be a must read for every programmer Scott Wlaschin author of

Domain Modeling Made Functional Code That Fits in Your Head offers indispensable practical advice for writing code at a sustainable pace and controlling the complexity that causes projects to spin out of control. Reflecting decades of experience helping software teams succeed, Mark Seemann guides you from zero no code to deployed features and shows how to maintain a good cruising speed as you add functionality, address cross-cutting concerns, troubleshoot, and optimize. You'll find valuable ideas, practices, and processes for key issues ranging from checklists to teamwork, encapsulation to decomposition, API design to unit testing. Seemann illuminates his insights with code examples drawn from a complete sample project. Written in C, they're designed to be clear and useful to anyone who uses any object-oriented language including Java, C, and Python. To facilitate deeper exploration, all code and extensive commit messages are available for download. Choose mindsets and processes that work and escape bad metaphors that don't. Use checklists to liberate yourself, improving outcomes with the skills you already have. Get past analysis paralysis by creating and deploying a vertical slice of your application. Counteract forces that lead to code rot and unnecessary complexity. Master better techniques for changing code behavior. Discover ways to solve code problems more quickly and effectively. Think more productively about performance and security. If you've ever suffered through bad projects or had to cope with unmaintainable legacy code, this guide will help you make things better next time and every time. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

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