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# GROWING OBJECT-ORIENTED SOFTWARE, GUIDED BY TESTS

STEVE FREEMAN  
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# Growing Object Oriented Software Guided By Tests

## Steve Freeman

**Emily Bache**



## **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 is 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 will 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

**Growing Object-oriented Software** Steve Freeman, Nat Pryce, 2009 *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 Will 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

### **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

### **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      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      **Clean Code**  
Robert C. Martin, 2025-10-17 Bestselling author Robert C Martin brings new life and updated code to his beloved Clean Code book With Clean Code Second Edition Robert C Martin Uncle Bob reinvigorates the classic guide to software craftsmanship with updated insights broader scope and enriched content This new edition a comprehensive rewrite of the original bestseller is poised to transform the way developers approach coding fostering a deeper commitment to the craft of writing clean flexible and maintainable code The book is divided into four parts basic coding practices design principles and heuristics high level architecture and the ethics of craftsmanship It challenges readers to critically evaluate code quality and reassess their professional values ultimately guiding them to produce better software This edition includes expanded coverage of testing disciplines design and architecture principles and multiple programming languages Design and architecture principles integrated with coding practices Coverage of more languages including Java JavaScript Go Python Clojure C and C Case studies for practical exercises in code transformation Techniques for writing good names functions objects and classes

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**Functional Design** Robert C. Martin, 2023-09-20 A Practical Guide to Better Cleaner Code with Functional Programming In Functional Design renowned software engineer Robert C Martin Uncle Bob explains how and why to use functional programming to build better systems for real customers Martin compares conventional object oriented coding structures in Java to those enabled by functional languages identifies the best roles for each and shows how to build better systems by judiciously using them in context Martin s approach is pragmatic minimizing theory in favor of in the trenches problem solving Through accessible examples working developers will discover how the easy to learn semantically rich Clojure language can help them improve code cleanliness design discipline and outcomes Martin examines well known SOLID principles and Gang of Four Design Patterns from a functional perspective revealing why patterns remain extremely valuable to functional programmers and how to use them to achieve superior results Understand functional basics immutability persistent data recursion iteration laziness and statefulness Contrast functional and object approaches through expertly crafted case studies Explore functional design techniques for data flow Use classic SOLID principles to write better Clojure code Master pragmatic approaches to functional testing GUIs and concurrency Make the most of design patterns in functional environments Walk through building an enterprise class Clojure application Functional Design exudes classic on arrival Bob pulls back the curtain to reveal how functional programming elements make software design simple yet pragmatic He does so without alienating experienced object oriented programmers coming from languages like C C or Java Janet A Carr Independent Clojure Consultant Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details

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

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**The Power of Go Tests** has everything you need to master the art of testing in Go **Agile ALM** Michael Hüttermann, 2011-08-19 Summary Agile ALM is a guide for Java developers who want to integrate flexible agile practices and lightweight tooling along all phases of the software development process The book introduces a new vision for managing change in requirements and process more efficiently and flexibly It synthesizes technical and functional elements to provide a comprehensive approach to software development About the Technology Agile Application Lifecycle Management Agile ALM combines flexible processes with lightweight tools in a comprehensive and practical approach to building testing integrating and deploying software Taking an agile approach to ALM improves product quality reduces time to market and makes for happier developers About the Book Agile ALM is a guide for Java developers testers and release engineers By following dozens of experience driven examples you'll learn to see the whole application lifecycle as a set of defined tasks and then master the tools and practices you need to accomplish those tasks effectively The book introduces state of the art lightweight tools that can radically improve the speed and fluidity of development and shows you how to integrate them into your processes The tools and examples are Java based but the Agile ALM principles apply to all development platforms Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book What's Inside A thorough introduction to Agile ALM Build an integrated Java based Agile ALM toolchain Use Scrum for release management Reviewed by a team of 20 Agile ALM experts Table of Contents PART 1 INTRODUCTION TO AGILE ALM Getting started with Agile ALM ALM and Agile strategies PART 2 FUNCTIONAL AGILE ALM Using Scrum for release management Task based development PART 3 INTEGRATION AND RELEASE MANAGEMENT Integration and release management Creating a productive development environment Advanced CI tools and recipes PART 4 OUTSIDE IN AND BARRIER FREE DEVELOPMENT Requirements and test management Collaborative and

barrier free development with Groovy and Scala      **Software Architecture in Practice** Len Bass,Paul Clements,Rick Kazman,2021-06-30 The Definitive Practical Proven Guide to Architecting Modern Software Fully Updated with New Content on Mobility the Cloud Energy Management DevOps Quantum Computing and More Updated with eleven new chapters Software Architecture in Practice Fourth Edition thoroughly explains what software architecture is why it s important and how to design instantiate analyze evolve and manage it in disciplined and effective ways Three renowned software architects cover the entire lifecycle presenting practical guidance expert methods and tested models for use in any project no matter how complex You ll learn how to use architecture to address accelerating growth in requirements system size and abstraction and to manage emergent quality attributes as systems are dynamically combined in new ways With insights for utilizing architecture to optimize key quality attributes including performance modifiability security availability interoperability testability usability deployability and more this guide explains how to manage and refine existing architectures transform them to solve new problems and build reusable architectures that become strategic business assets Discover how architecture influences and is influenced by technical environments project lifecycles business profiles and your own practices Leverage proven patterns interfaces and practices for optimizing quality through architecture Architect for mobility the cloud machine learning and quantum computing Design for increasingly crucial attributes such as energy efficiency and safety Scale systems by discovering architecturally significant influences using DevOps and deployment pipelines and managing architecture debt Understand architecture s role in the organization so you can deliver more value Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details      **Spock: Up and Running** Rob Fletcher,2017-05-08 Most developers would agree that writing automated tests is a good idea but writing good well structured tests is still an elusive skill for many For Java and Groovy developers however there s good news This practical guide shows you how to write concise and highly readable tests with Spock the most innovative testing and specification framework for the JVM since JUnit Author Rob Fletcher takes you from Spock basics to advanced topics using fully worked integration examples Through the course of this book you ll build a simple web application Squawker that allows users to post short messages You ll discover how much easier it is to write automated tests with Spock s straightforward and expressive language Start by learning how to write simple unit tests Understand the lifecycle of Spock specifications and feature methods Dive into interaction testing using Spock s intuitive syntax for dealing with mocks and stubs Learn about parameterized tests writing feature methods that run for multiple sets of data Move into advanced topics such as writing idiomatic Spock code and driving parameterized tests with file or database input Learn how everything works together in a standalone fully worked test driven development example      [Building Microservices](#) Sam Newman,2015-02-02 Distributed systems have become more fine grained in the past 10 years shifting from code heavy monolithic applications to smaller self contained microservices But developing these systems brings its own set of headaches



With lots of examples and practical advice this book takes a holistic view of the topics that system architects and administrators must consider when building managing and evolving microservice architectures Microservice technologies are moving quickly Author Sam Newman provides you with a firm grounding in the concepts while diving into current solutions for modeling integrating testing deploying and monitoring your own autonomous services You ll follow a fictional company throughout the book to learn how building a microservice architecture affects a single domain Discover how microservices allow you to align your system design with your organization s goals Learn options for integrating a service with the rest of your system Take an incremental approach when splitting monolithic codebases Deploy individual microservices through continuous integration Examine the complexities of testing and monitoring distributed services Manage security with user to service and service to service models Understand the challenges of scaling microservice architectures

**Continuous Delivery** Jez Humble,David Farley,2010-07-27 Winner of the 2011 Jolt Excellence Award Getting software released to users is often a painful risky and time consuming process This groundbreaking new book sets out the principles and technical practices that enable rapid incremental delivery of high quality valuable new functionality to users Through automation of the build deployment and testing process and improved collaboration between developers testers and operations delivery teams can get changes released in a matter of hours sometimes even minutes no matter what the size of a project or the complexity of its code base Jez Humble and David Farley begin by presenting the foundations of a rapid reliable low risk delivery process Next they introduce the deployment pipeline an automated process for managing all changes from check in to release Finally they discuss the ecosystem needed to support continuous delivery from infrastructure data and configuration management to governance The authors introduce state of the art techniques including automated infrastructure management and data migration and the use of virtualization For each they review key issues identify best practices and demonstrate how to mitigate risks Coverage includes Automating all facets of building integrating testing and deploying software Implementing deployment pipelines at team and organizational levels Improving collaboration between developers testers and operations Developing features incrementally on large and distributed teams Implementing an effective configuration management strategy Automating acceptance testing from analysis to implementation Testing capacity and other non functional requirements Implementing continuous deployment and zero downtime releases Managing infrastructure data components and dependencies Navigating risk management compliance and auditing Whether you re a developer systems administrator tester or manager this book will help your organization move from idea to release faster than ever so you can deliver value to your business rapidly and reliably

**Practices for Scaling Lean & Agile Development** Craig Larman,Bas Vodde,2010-01-26 Lean and Agile Development for Large Scale Products Key Practices for Sustainable Competitive Success Increasingly large product development organizations are turning to lean thinking agile principles and practices and large scale Scrum to sustainably and quickly deliver value and innovation Drawing on their long

experience leading and guiding lean and agile adoptions for large multisite and offshore product development internationally recognized consultant and best selling author Craig Larman and former leader of the agile transformation at Nokia Networks Bas Vodde share the key action tools needed for success Coverage includes Frameworks for large scale Scrum for multihundred person product groups Testing and building quality in Product management and the end of the contract game between business and R D Envisioning a large release and planning for multiteam development Low quality legacy code why it s created and how to stop it Continuous integration in a large multisite context Agile architecting Multisite or offshore development Contracts and outsourced development In a competitive environment that demands ever faster cycle times and greater innovation the practices inspired by lean thinking and agile principles are ever more relevant Practices for Scaling Lean Agile Development will help people realize a lean enterprise and deliver on the significant benefits of agility In addition to the action tools in this text see the companion book *Scaling Lean Agile Development Thinking and Organizational Tools for Large Scale Scrum* for complementary foundation tools

**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

Scrum Shortcuts Without Cutting Corners Ilan Goldstein, 2014 In *Scrum Shortcuts without Cutting Corners* Scrum expert Ilan Goldstein helps the reader translate the Scrum framework into reality to meet the Scrum challenges formal training never warned about Drawing on his extensive agile experience in a wide range of projects and environments Goldstein presents thirty proven flexible shortcuts for optimizing Scrum processes actions and outcomes Each shortcut walks the reader through applying a Scrum approach to achieve a tangible output These easy to digest actionable patterns address a broad range of topics including getting started quality and metrics team members and roles managing stakeholders estimation continuous improvement and much more

*Living Documentation* Cyrille Martraire, 2019-05-25 Use an Approach Inspired by Domain Driven Design to Build Documentation That Evolves to Maximize Value Throughout Your Development Lifecycle Software documentation can come to life stay dynamic and actually help you build better software Writing for developers coding architects and other software professionals *Living Documentation* shows how to create documentation that evolves throughout your entire design and development lifecycle Through patterns clarifying illustrations and concrete examples Cyrille Martraire demonstrates how to use well crafted artifacts and automation to dramatically improve the value of documentation at minimal extra cost Whatever your domain language or technologies you don t have to choose between working software and comprehensive high quality documentation you can have both Extract and augment available knowledge and make it useful through living curation Automate the creation of documentation and diagrams that evolve as knowledge changes Use development tools to refactor documentation Leverage documentation to improve software designs Introduce living documentation to new and legacy environments

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.

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