

The Addison-Wesley Signature Series



XUNIT TEST PATTERNS

REFACTORING
TEST CODE

GERARD MESZAROS



Foreword by Martin Fowler

Xunit Test Patterns Refactoring Code Gerard Meszaros

**Carlos Buenosvinos, Christian
Sorionellas, Keyvan Akbary**



Xunit Test Patterns Refactoring Code Gerard Meszaros:

xUnit Test Patterns Gerard Meszaros, 2007-05-21 Automated testing is a cornerstone of agile development. An effective testing strategy will deliver new functionality more aggressively, accelerate user feedback and improve quality. However, for many developers, creating effective automated tests is a unique and unfamiliar challenge. *xUnit Test Patterns* is the definitive guide to writing automated tests using xUnit, the most popular unit testing framework in use today. Agile coach and test automation expert Gerard Meszaros describes 68 proven patterns for making tests easier to write, understand, and maintain. He then shows you how to make them more robust and repeatable and far more cost effective. Loaded with information, this book feels like three books in one. The first part is a detailed tutorial on test automation that covers everything from test strategy to in-depth test coding. The second part, a catalog of 18 frequently encountered test smells, provides trouble-shooting guidelines to help you determine the root cause of problems and the most applicable patterns. The third part contains detailed descriptions of each pattern, including refactoring instructions illustrated by extensive code samples in multiple programming languages. [The Art of Unit Testing](#) Roy Osherove, 2015

Test-Driven JavaScript Development Christian Johansen, 2010-09-09 For JavaScript developers working on increasingly large and complex projects, effective automated testing is crucial to success. *Test-Driven JavaScript Development* is a complete best-practice guide to agile JavaScript testing and quality assurance with the test-driven development (TDD) methodology. Leading agile JavaScript developer Christian Johansen covers all aspects of applying state-of-the-art automated testing in JavaScript environments, walking readers through the entire development lifecycle from project launch to application deployment and beyond. Using real-life examples driven by unit tests, Johansen shows how to use TDD to gain greater confidence in your code base so you can fearlessly refactor and build more robust, maintainable, and reliable JavaScript code at lower cost. Throughout, he addresses crucial issues ranging from code design to performance optimization, offering realistic solutions for developers, QA specialists, and testers. Coverage includes: Understanding automated testing and TDD; Building effective automated testing workflows; Testing code for both browsers and servers using Node.js; Using TDD to build cleaner APIs; better modularized code and more robust software; Writing testable code; Using test stubs and mocks to test units in isolation; Continuously improving code through refactoring; Walking through the construction and automated testing of fully functional software. The accompanying Web site tddjs.com contains all of the book's code listings and additional resources. *Software Design by Example* Greg Wilson, 2024-04-05 The best way to learn design in any field is to study examples, and some of the best examples of software design come from the tools programmers use in their own work. *Software Design by Example: A Tool-Based Introduction with Python* therefore builds small versions of the things programmers use in order to demystify them and give some insights into how experienced programmers think. From a file backup system and a testing framework to a regular expression matcher, a browser layout engine, and a very small compiler, we explore common design patterns, show

how making code easier to test also makes it easier to reuse and help readers understand how debuggers profilers package managers and version control systems work so that they can use them more effectively This material can be used for self paced study in an undergraduate course on software design or as the core of an intensive weeklong workshop for working programmers Each chapter has a set of exercises ranging in size and difficulty from half a dozen lines to a full day s work Readers should be familiar with the basics of modern Python but the more advanced features of the language are explained and illustrated as they are introduced All the written material in this project can be freely reused under the terms of the Creative Commons Attribution license while all of the software is made available under the terms of the Hippocratic License All proceeds from sale of this book will go to support the Red Door Family Shelter in Toronto Features Teaches software design by showing programmers how to build the tools they use every day Each chapter includes exercises to help readers check and deepen their understanding All the example code can be downloaded re used and modified under an open license

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 *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

EuroPLoP 2009 Proceedings Allan Kelly,2011 **Patterns kompakt** Karl Eilebrecht,Gernot Starke,2010-02-24 Patterns kompakt fasst die wichtigsten Entwurfsmuster zusammen die Sie f r Software Entwicklung ben tigen Software Entwickler Architekten und Designer finden darin effektiv anwendbare L sungen f r t gliche Entwurfsprobleme Die dritte Auflage haben wir f r Sie um aktuelle Patterns erweitert und komplett bearbeitet Das Buch gliedert Patterns anhand typischer Aspekte des Software Entwurfs Basismuster f r mehr Flexibilit t und Wartbarkeit Pr sentation Kommunikation Verteilung Integration Persistenz Patterns kompakt richtet sich an Praktiker Software Entwickler Designer Architekten und alle die einen praxisorientierten berblick zu Entwurfsmustern ben tigen Auf der Webseite zum Buch www.patterns.kompakt.de finden Sie erg nzende Informationen Quellcode zum Download sowie Beschreibungen weiterer Muster Ein hervorragend strukturiertes Einstiegswerk Dr Stephan Wendler blueCarat AG K ln **Dependency Injection Principles, Practices, and Patterns** Mark Seemann,Steven van Deursen,2019-03-06 Summary Dependency Injection Principles Practices and Patterns teaches you to use DI to reduce hard coded dependencies between application components You ll start by learning what DI is and what types of applications will benefit from it Then you ll work through concrete scenarios using C and the NET framework to implement DI in your own projects As you dive into the thoroughly explained examples you ll develop a

foundation you can apply to any of the many DI libraries for NET and NET Core Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Dependency Injection DI is a great way to reduce tight coupling between software components Instead of hard coding dependencies such as specifying a database driver you make those connections through a third party Central to application frameworks like ASP NET Core DI enables you to better manage changes and other complexity in your software About the Book Dependency Injection Principles Practices and Patterns is a revised and expanded edition of the bestselling classic Dependency Injection in NET It teaches you DI from the ground up featuring relevant examples patterns and anti patterns for creating loosely coupled well structured applications The well annotated code and diagrams use C examples to illustrate principles that work flawlessly with modern object oriented languages and DI libraries What s Inside Refactoring existing code into loosely coupled code DI techniques that work with statically typed OO languages Integration with common NET frameworks Updated examples illustrating DI in NET Core About the Reader For intermediate OO developers About the Authors Mark Seemann is a programmer software architect and speaker who has been working with software since 1995 including six years with Microsoft Steven van Deursen is a seasoned NET developer and architect and the author and maintainer of the Simple Injector DI library Table of Contents PART 1 Putting Dependency Injection on the map The basics of Dependency Injection What why and how Writing tightly coupled code Writing loosely coupled code PART 2 Catalog DI patterns DI anti patterns Code smells PART 3 Pure DI Application composition Object lifetime Interception Aspect Oriented Programming by design Tool based Aspect Oriented Programming PART 4 DI Containers DI Container introduction The Autofac DI Container The Simple Injector DI Container The Microsoft Extensions DependencyInjection DI Container Domain-Driven Design in PHP Carlos Buenosvinos,Christian Soronellas,Keyvan Akbary,2017-06-14 Real examples written in PHP showcasing DDD Architectural Styles Tactical Design and Bounded Context Integration About This Book Focuses on practical code rather than theory Full of real world examples that you can apply to your own projects Shows how to build PHP apps using DDD principles Who This Book Is For This book is for PHP developers who want to apply a DDD mindset to their code You should have a good understanding of PHP and some knowledge of DDD This book doesn t dwell on the theory but instead gives you the code that you need What You Will Learn Correctly design all design elements of Domain Driven Design with PHP Learn all tactical patterns to achieve a fully worked out Domain Driven Design Apply hexagonal architecture within your application Integrate bounded contexts in your applications Use REST and Messaging approaches In Detail Domain Driven Design DDD has arrived in the PHP community but for all the talk there is very little real code Without being in a training session and with no PHP real examples learning DDD can be challenging This book changes all that It details how to implement tactical DDD patterns and gives full examples of topics such as integrating Bounded Contexts with REST and DDD messaging strategies In this book the authors show you with tons of details and examples how to properly design Entities Value Objects

Services Domain Events Aggregates Factories Repositories Services and Application Services with PHP They show how to apply Hexagonal Architecture within your application whether you use an open source framework or your own Style and approach This highly practical book shows developers how to apply domain driven design principles to PHP It is full of solid code examples to work through [Refactoring HTML](#) Elliotte Rusty Harold,2012-03-16 Like any other software system Web sites gradually accumulate cruft over time They slow down Links break Security and compatibility problems mysteriously appear New features don't integrate seamlessly Things just don't work as well In an ideal world you'd rebuild from scratch But you can't there's no time or money for that Fortunately there's a solution You can refactor your Web code using easy proven techniques tools and recipes adapted from the world of software development In Refactoring HTML Elliotte Rusty Harold explains how to use refactoring to improve virtually any Web site or application Writing for programmers and non programmers alike Harold shows how to refactor for better reliability performance usability security accessibility compatibility and even search engine placement Step by step he shows how to migrate obsolete code to today's stable Web standards including XHTML CSS and REST and eliminate chronic problems like presentation based markup stateful applications and tag soup The book's extensive catalog of detailed refactorings and practical recipes for success are organized to help you find specific solutions fast and get maximum benefit for minimum effort Using this book you can quickly improve site performance now and make your site far easier to enhance maintain and scale for years to come Topics covered include Recognizing the smells of Web code that should be refactored Transforming old HTML into well formed valid XHTML one step at a time Modernizing existing layouts with CSS Updating old Web applications replacing POST with GET replacing old contact forms and refactoring JavaScript Systematically refactoring content and links Restructuring sites without changing the URLs your users rely upon This book will be an indispensable resource for Web designers developers project managers and anyone who maintains or updates existing sites It will be especially helpful to Web professionals who learned HTML years ago and want to refresh their knowledge with today's standards compliant best practices This book will be an indispensable resource for Web designers developers project managers and anyone who maintains or updates existing sites It will be especially helpful to Web professionals who learned HTML years ago and want to refresh their knowledge with today's standards compliant best practices [Topics in Parallel and Distributed Computing](#) Sushil K. Prasad,Anshul Gupta,Arnold Rosenberg,Alan Sussman,Charles Weems,2018-09-29 This book introduces beginning undergraduate students of computing and computational disciplines to modern parallel and distributed programming languages and environments including map reduce general purpose graphics processing units GPUs and graphical user interfaces GUI for mobile applications The book also guides instructors via selected essays on what and how to introduce parallel and distributed computing topics into the undergraduate curricula including quality criteria for parallel algorithms and programs scalability parallel performance fault tolerance and energy efficiency analysis The chapters designed for students serve as supplemental

textual material for early computing core courses which students can use for learning and exercises The illustrations examples and sequences of smaller steps to build larger concepts are also tools that could be inserted into existing instructor material The chapters intended for instructors are written at a teaching level and serve as a rigorous reference to include learning goals advice on presentation and use of the material within early and advanced undergraduate courses Since Parallel and Distributed Computing PDC now permeates most computing activities imparting a broad based skill set in PDC technology at various levels in the undergraduate educational fabric woven by Computer Science CS and Computer Engineering CE programs as well as related computational disciplines has become essential This book and others in this series aim to address the need for lack of suitable textbook support for integrating PDC related topics into undergraduate courses especially in the early curriculum The chapters are aligned with the curricular guidelines promulgated by the NSF IEEE TCPP Curriculum Initiative on Parallel and Distributed Computing for CS and CE students and with the CS2013 ACM IEEE Computer Science Curricula

The Art of Unit Testing, Third Edition Roy Osherove, Vladimir Khorikov, 2024-03-26 The art of unit testing is more than just learning the right collection of tools and practices It s about understanding what makes great tests tick finding the right strategy for each unique situation and knowing what to do when the testing process gets messy This book delivers insights and advice that will transform the way you test your software The art of unit testing third edition shows you how to create readable and maintainable tests It goes well beyond basic test creation into organization wide test strategies troubleshooting working with legacy code and merciless refactoring You ll love the practical examples and familiar scenarios that make testing come alive as you read This third edition has been updated with techniques specific to object oriented functional and modular coding styles The examples use JavaScript

Testing Java Microservices Jason Porter, Alex Soto, Andrew Gumbrecht, 2018-08-03 Summary Testing Java Microservices teaches you to implement unit and integration tests for microservice systems running on the JVM You ll work with a microservice environment built using Java EE WildFly Swarm and Docker You ll learn how to increase your test coverage and productivity and gain confidence that your system will work as you expect Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Microservice applications present special testing challenges Even simple services need to handle unpredictable loads and distributed message based designs pose unique security and performance concerns These challenges increase when you throw in asynchronous communication and containers About the Book Testing Java Microservices teaches you to implement unit and integration tests for microservice systems running on the JVM You ll work with a microservice environment built using Java EE WildFly Swarm and Docker You ll advance from writing simple unit tests for individual services to more advanced practices like chaos or integration tests As you move towards a continuous delivery pipeline you ll also master live system testing using technologies like the Arquillian Wiremock and Mockito frameworks along with techniques like contract testing and over the wire service virtualization

Master these microservice specific practices and tools and you'll greatly increase your test coverage and productivity and gain confidence that your system will work as you expect

What's Inside Test automation Integration testing microservice systems Testing container centric systems Service virtualization About the Reader Written for Java developers familiar with Java EE EE4J Spring or Spring Boot About the Authors Alex Soto Bueno and Jason Porter are Arquillian team members Andy Gumbrecht is an Apache TomEE developer and PMC They all have extensive enterprise testing experience

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An introduction to microservices Application under test Unit testing microservices Component testing microservices Integration testing microservices Contract tests End to end testing Docker and testing Service virtualization Continuous delivery in microservices

The Art of Unit Testing, Third Edition Roy Osherove, 2024-03-26

Unit testing is more than just a collection of tools and practices it's a state of mind This bestseller reveals the master's secrets for delivering robust maintainable and trustworthy code Thousands of developers have learned to hone their code quality under the tutelage of The Art of Unit Testing This revised third edition updates an international bestseller to reflect modern development tools and practices as well as to cover JavaScript

Inside The Art of Unit Testing Third Edition you will learn how to Create readable maintainable and trustworthy tests Work with fakes stubs mock objects and isolation frameworks Apply simple dependency injection techniques Refactor legacy code with confidence Test both frontend and backend code Effective unit tests streamline your software development process and ensure you deliver consistent high quality code every time With practical examples in JavaScript and Node this hands on guide takes you from your very first unit tests all the way to comprehensive test suites naming standards and refactoring techniques You'll explore test patterns and organization working with legacy code and even untestable code The many tool agnostic examples are presented in JavaScript and carefully designed so that they apply to code written in any language

About the technology The art of unit testing is more than just learning the right collection of tools and practices It's about understanding what makes great tests tick finding the right strategy for each unique situation and knowing what to do when the testing process gets messy This book delivers insights and advice that will transform the way you test your software

About the book The Art of Unit Testing Third Edition shows you how to create readable and maintainable tests It goes well beyond basic test creation into organization wide test strategies troubleshooting working with legacy code and merciless refactoring You'll love the practical examples and familiar scenarios that make testing come alive as you read This third edition has been updated with techniques specific to object oriented functional and modular coding styles The examples use JavaScript

What's inside Deciding on test types and strategies Test Entry Exit Points Refactoring legacy code Fakes stubs mock objects and isolation frameworks Object Oriented Functional and Modular testing styles About the reader Examples use JavaScript TypeScript and Node.js

About the author Roy Osherove is an internationally recognized expert in unit testing and agile software methodology Vladimir Khorikov is the author of Manning's Unit Testing Principles Practices and Patterns a Pluralsight author and a Microsoft MVP

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testing 2 A first unit test PART 2 3 Breaking dependencies with stubs 4 Interaction testing using mock objects 5 Isolation frameworks 6 Unit testing asynchronous code PART 3 7 Trustworthy tests 8 Maintainability PART 4 9 Readability 10 Developing a testing strategy 11 Integrating unit testing into the organization 12 Working with legacy code Appendix Monkey patching functions and modules **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

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 Succeeding with Agile Mike Cohn, 2010 Proven 100% Practical Guidance for Making Scrum and Agile Work in Any Organization This is the definitive realistic actionable guide to starting fast with Scrum and agile and then succeeding over the long haul Leading agile consultant and practitioner Mike Cohn presents detailed recommendations powerful tips and real world case studies drawn from his unparalleled experience helping hundreds of software organizations make Scrum and agile work Succeeding with Agile is for pragmatic software professionals who want real answers to the most difficult challenges they face in implementing Scrum Cohn covers every facet of the transition getting started helping individuals transition to new roles structuring teams scaling up working with a distributed team and finally implementing effective metrics and continuous improvement Throughout Cohn presents Things to Try Now sections based on his most successful advice Complementary Objection sections reproduce typical conversations with those resisting change and offer practical guidance for addressing their concerns Coverage includes Practical ways to get started immediately and get good fast Overcoming individual resistance to the changes Scrum requires Staffing Scrum projects and building effective teams Establishing improvement communities of people who are passionate about driving change Choosing which agile technical practices to use or experiment with Leading self organizing teams Making the most of Scrum sprints planning and quality techniques Scaling Scrum to distributed multiteam projects Using Scrum on projects with complex sequential processes or challenging compliance and governance requirements Understanding Scrum's impact on HR facilities and project management Whether

you've completed a few sprints or multiple agile projects and whatever your role manager developer coach ScrumMaster product owner analyst team lead or project lead this book will help you succeed with your very next project Then it will help you go much further It will help you transform your entire development organization

Hands-On Software Engineering with Golang Achilleas Anagnostopoulos,2020-01-24 Explore software engineering methodologies techniques and best practices in Go programming to build easy to maintain software that can effortlessly scale on demand Key Features Apply best practices to produce lean testable and maintainable Go code to avoid accumulating technical debt Explore Go's built in support for concurrency and message passing to build high performance applications Scale your Go programs across machines and manage their life cycle using Kubernetes Book Description Over the last few years Go has become one of the favorite languages for building scalable and distributed systems Its opinionated design and built in concurrency features make it easy for engineers to author code that efficiently utilizes all available CPU cores This Golang book distills industry best practices for writing lean Go code that is easy to test and maintain and helps you to explore its practical implementation by creating a multi tier application called Links R Us from scratch You'll be guided through all the steps involved in designing implementing testing deploying and scaling an application Starting with a monolithic architecture you'll iteratively transform the project into a service oriented architecture SOA that supports the efficient out of core processing of large link graphs You'll learn about various cutting edge and advanced software engineering techniques such as building extensible data processing pipelines designing APIs using gRPC and running distributed graph processing algorithms at scale Finally you'll learn how to compile and package your Go services using Docker and automate their deployment to a Kubernetes cluster By the end of this book you'll know how to think like a professional software developer or engineer and write lean and efficient Go code What you will learn Understand different stages of the software development life cycle and the role of a software engineer Create APIs using gRPC and leverage the middleware offered by the gRPC ecosystem Discover various approaches to managing package dependencies for your projects Build an end to end project from scratch and explore different strategies for scaling it Develop a graph processing system and extend it to run in a distributed manner Deploy Go services on Kubernetes and monitor their health using Prometheus Who this book is for This Golang programming book is for medium to advanced users who want to delve deeper into the best practices of using Golang to build complex distributed systems effectively Knowledge of Go programming and the basics of software development is required

Implementation Patterns Kent Beck,2007-10-23 Software Expert Kent Beck Presents a Catalog of Patterns Infinitely Useful for Everyday Programming Great code doesn't just function it clearly and consistently communicates your intentions allowing other programmers to understand your code rely on it and modify it with confidence But great code doesn't just happen It is the outcome of hundreds of small but critical decisions programmers make every single day Now legendary software innovator Kent Beck known worldwide for creating Extreme Programming and pioneering software patterns and test driven

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Xunit Test Patterns Refactoring Code Gerard Meszaros Introduction

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