Pragmatic Unit Testing in Java 8 with JUnit

Jeff Langr with Andy Hunt

& Dave Thomas

edited by Susannah Davidson Pfalzer



Pragmatic Unit Testing In Java With Junit

Otis Gospodnetic, Erik Hatcher, Michael McCandless

Pragmatic Unit Testing In Java With Junit:

Pragmatic Unit Testing in C# with NUnit Andrew Hunt, David Thomas, 2004 Learn how to improve your C coding skills using unit testing Despite it's name unit testing is really a coding technique not a testing technique Unit testing is done by programmers for programmers It's primarily for our benefit we get improved confidence in our code better ability to make deadlines less time spent in the debugger and less time beating on the code to make it work correctly This book shows how to write tests but more importantly it goes where other books fear to tread and gives you concrete advice and examples of what to test the common things that go wrong in all of our programs Discover the tricky hiding places where bugs breed and how to catch them using the freely available NUnit framework It's easy to learn how to think of all the things in your code that are likely to break We ll show you how with helpful mnemonics summarized in a handy tip sheet also available from our www pragmaticprogrammer com website With this book you will Write better code and take less time to write it Discover the tricky places where bugs breed Learn how to think of all the things that could go wrong Test individual pieces of code without having to include the whole project Test effectively with the whole team We ll also cover how to use Mock Objects for testing how to write high quality test code and how to use unit testing to improve your design skills We ll show you frequent gotchas along with the fixes to save you time when problems come up But the best part is that you don't need a sweeping mandate to change your whole team or your whole company You don't need to adopt Extreme Programming or Test Driven Development or change your development process in order to reap the proven benefits of unit testing You can start unit testing the pragmatic way right away Pragmatic Unit Testing in Java 8 with JUnit Jeff Langr, 2015 Pragmatic Unit Testing in Java with JUnit Jeff Langr, 2024-11-08 The classic Pragmatic Unit Testing with Java in JUnit returns for a third edition streamlined and rewritten with updated and more accessible code examples In this edition you ll learn how to create concise maintainable unit tests with confidence New chapters provide a foundation of examples for testing common concepts and guidance on incorporating modern AI tools into your development and testing Updated topics include improving test quality via development mnemonics increasing ROI through test and production code refactoring and using tests to drive development Pragmatic Unit Testing in Java with JUnit steps you through all the important unit testing topics If you ve never written a unit test you ll be hand held through the hard part getting set up and started Once past the basics you ll see numerous examples in order to start understanding what tests for common code concepts look like You ll then learn how to effectively use the essential features of JUnit the predominant tool for writing and executing unit tests in Java You ll gain the combined wisdom of Jeff Langr and original authors Andy Hunt and Dave Thomas providing decades of unit testing experience on real production systems You ll learn how to Craft your code to make unit testing easier in the first place Craft your unit tests to minimize your maintenance effort Use unit tests to support keeping your system clean through refactoring Refactor toward a design that will create the highest possible ROI Test the tough stuff including code that must be mocked

Remember what s important when writing unit tests Help your team reap and sustain the benefits of unit testing Use AI tooling as part of a development process that incorporates unit testing You won t just learn about unit testing in theory you ll learn about real unit testing the Pragmatic way by working through numerous code examples What You Need You ll need the Java SDK Software Development Kit version 21 or higher to work through the examples in the book You ll also want an IDE Integrated Development Environment in which to build code While most of the book doesn t assume use of any specific IDE you ll find a number of getting started screen shots to help you if you re using Intelli] IDEA **Pragmatic Unit Testing in** Java 8 with JUnit Jeff Langr, Andy Hunt, Dave Thomas, 2015-04-14 The Pragmatic Programmers classic is back Freshly updated for modern software development Pragmatic Unit Testing in Java 8 With JUnit teaches you how to write and run easily maintained unit tests in JUnit with confidence You ll learn mnemonics to help you know what tests to write how to remember all the boundary conditions and what the qualities of a good test are You ll see how unit tests can pay off by allowing you to keep your system code clean and you ll learn how to handle the stuff that seems too tough to test Pragmatic Unit Testing in Java 8 With JUnit steps you through all the important unit testing topics If you ve never written a unit test you ll see screen shots from Eclipse Intellij IDEA and NetBeans that will help you get past the hard part getting set up and started Once past the basics you ll learn why you want to write unit tests and how to effectively use JUnit But the meaty part of the book is its collected unit testing wisdom from people who ve been there done that on production systems for at least 15 years veteran author and developer Jeff Langr building on the wisdom of Pragmatic Programmers Andy Hunt and Dave Thomas You ll learn How to craft your unit tests to minimize your effort in maintaining them How to use unit tests to help keep your system clean How to test the tough stuff Memorable mnemonics to help you remember what s important when writing unit tests How to help your team reap and sustain the benefits of unit testing You won t just learn about unit testing in theory you ll work through numerous code examples When it comes to programming hands on is the only way to learn

Pragmatic Unit Testing in Java 8 with JUnit Jeff Langr, Andrew Hunt, David Thomas, 2015 The Pragmatic Programmers classic is back Freshly updated for modern software development Pragmatic Unit Testing in Java 8 With JUnit teaches you how to write and run easily maintained unit tests in JUnit with confidence You II learn mnemonics to help you know what tests to write how to remember all the boundary conditions and what the qualities of a good test are You II see how unit tests can pay off by allowing you to keep your system code clean and you II learn how to handle the stuff that seems too tough to test Pragmatic Unit Testing in Java 8 With JUnit steps you through all the important unit testing topics If you ve never written a unit test you II see screen shots from Eclipse IntelliJ IDEA and NetBeans that will help you get past the hard part getting set up and started Once past the basics you II learn why you want to write unit tests and how to effectively use JUnit But the meaty part of the book is its collected unit testing wisdom from people who ve been there done that on production systems for at least 15 years veteran author and developer Jeff Langr building on the wisdom of Pragmatic

Programmers Andy Hunt and Dave Thomas You ll learn How to craft your unit tests to minimize your effort in maintaining them How to use unit tests to help keep your system clean How to test the tough stuff Memorable mnemonics to help you remember what s important when writing unit tests How to help your team reap and sustain the benefits of unit testing You won t just learn about unit testing in theory you ll work through numerous code examples When it comes to programming hands on is the only way to learn **IUnit Recipes** Scott Stirling, I.B. Rainsberger, 2004-06-30 When testing becomes a developer's habit good things tend to happen good productivity good code and good job satisfaction If you want some of that there s no better way to start your testing habit nor to continue feeding it than with JUnit Recipes In this book you will find one hundred and thirty seven solutions to a range of problems from simple to complex selected for you by an experienced developer and master tester Each recipe follows the same organization giving you the problem and its background before discussing your options in solving it JUnit the unit testing framework for Java is simple to use but some code can be tricky to test When you re facing such code you will be glad to have this book It is a how to reference full of practical advice on all issues of testing from how to name your test case classes to how to test complicated J2EE applications Its valuable advice includes side matters that can have a big payoff like how to organize your test data or how to manage expensive test resources What's Inside Getting started with JUnit Recipes for servlets JSPs EJBs Database code much more Difficult to test designs and how to fix them How testing saves time Choose a JUnit extension HTMLUnit XMLUnit ServletUnit EasyMock and Practices of an Agile Developer Venkat Subramaniam, Andy Hunt, 2006-04-04 These are the proven effective more agile practices that will make you a better developer You ll learn pragmatic ways of approaching the development process and your personal coding techniques You ll learn about your own attitudes issues with working on a team and how to best manage your learning all in an iterative incremental agile style You ll see how to apply each practice and what benefits you can expect Bottom line This book will make you a better developer Pragmatic Unit Testing Andrew Hunt, David Thomas, 2003 Publisher description fortsat With this book you will Write better code and take less time to write it Discover the tricky places where bugs breed Learn how to think of all the things that could go wrong Test individual pieces of code without having to include the whole project Test effectively with the whole team We ll also cover how to use Mock Objects for testing how to write high quality test code and how to use unit testing to improve your design skills We ll show you frequent gotchas Along with the fixes to save you time when problems come up But the best part is that you don't need a sweeping mandate to change your whole team or your whole company You don't need to adopt Extreme Programming or Test Driven Development orchange your development process in order to reap the proven benefits of unit testing You can start unit testing the pragmatic way right away Better, Faster, Lighter Java Bruce Tate, Justin Gehtland, 2004-05-28 Sometimes the simplest answer is the best Many Enterprise Java developers accustomed to dealing with Java's spiraling complexity have fallen into the habit of choosing overly complicated solutions to problems when simpler options are available Building server

applications with heavyweight Java based architectures such as WebLogic JBoss and WebSphere can be costly and cumbersome When you ve reached the point where you spend more time writing code to support your chosen framework than to solve your actual problems it s time to think in terms of simplicity In Better Faster Lighter Java authors Bruce Tate and Justin Gehtland argue that the old heavyweight architectures are unwieldy complicated and contribute to slow and buggy application code As an alternative means for building better applications the authors present two lightweight open source architectures Hibernate a persistence framework that does its job with a minimal API and gets out of the way and Spring a container that s not invasive heavy or complicated Hibernate and Spring are designed to be fairly simple to learn and use and place reasonable demands on system resources Better Faster Lighter Java shows you how they can help you create enterprise applications that are easier to maintain write and debug and are ultimately much faster Written for intermediate to advanced Java developers Better Faster Lighter Java offers fresh ideas often unorthodox to help you rethink the way you work and techniques and principles you Il use to build simpler applications You Il learn to spend more time on what s important When you re finished with this book you Il find that your Java is better faster and lighter than ever before

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following topical sections Neural Networks and Their Applications Fuzzy Systems and Their Applications Evolutionary Algorithms and Their Applications Classification and Estimation Computer Vision Image and Speech Analysis and Special Session 3 Intelligent Methods in Databases The 71 papers in the second volume are organized in the following subjects Data Mining Bioinformatics Biometrics and Medical Applications Agent Systems Robotics and Control Artificial Intelligence in Modeling and Simulation Various Problems of Artificial Intelligence Special Session 2 Machine Learning for Visual Information Analysis and Security Special Session 1 Applications and Properties of Fuzzy Reasoning and Calculus and Clustering Modeling with Rules Using Semantic Knowledge Engineering Grzegorz J. Nalepa, 2017-10-04 This book proposes a consistent methodology for building intelligent systems It puts forward several formal models for designing and implementing rules based systems and presents illustrative case studies of their applications These include software engineering business process systems Semantic Web and context aware systems on mobile devices Rules offer an intuitive yet powerful method for representing human knowledge and intelligent systems based on rules have many important applications However their practical development requires proper techniques and models a gap that this book effectively addresses

Pragmatic Unit Testing In Java With Junit Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Pragmatic Unit Testing In Java With Junit**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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