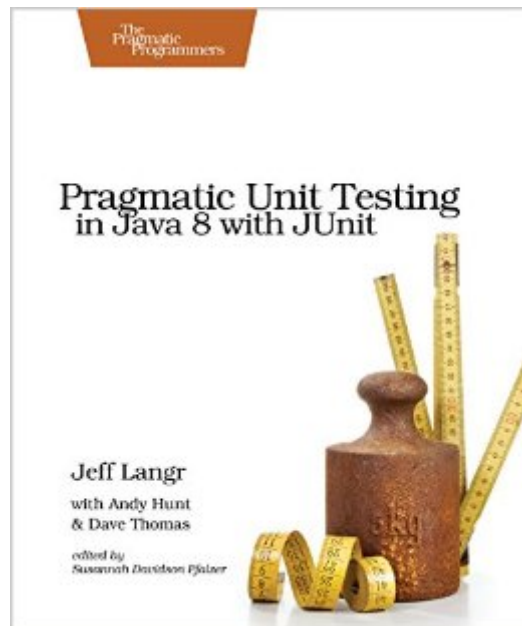# Pragmatic Unit Testing In Java 8 With JUnit

## Synopsis

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!

## Book Information

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# Customer Reviews

Having come back to Java recently, I was looking for a refresher on best practices around unit testing and Jeff¢Â ™s book didn¢Â ™t disappoint.Chalked full of great examples, Jeff¢Â ™s book introduces the beginner to the concept of unit testing, how it works, and how to get started.Jeff then expertly moves into some of the more tricker aspects of unit testing. Like how to handle private data, when and how to use mocks, refactoring, and a good introduction to TDD.I love mnemonics, and Jeff has some great ones I had never heard before. How to test using your Right-BICEP, testing boundary conditions the CORRECT way.Whether you need a refresher on unit testing, just getting started, or are looking for a refresher, Jeff¢Â ™s book should be you and your team everything you need to get started. And I think this is a well timed excellent book on the subject.

I consider myself as an intermediate level java programmer and one of the areas I have been concentrating on recently has been learning unit testing. I have purchased several other books on the subject but have found this one to be the best for helping me understand the java unit testing purpose and process. I can highly recommend it.

This is indeed a Java 8 unit testing book. With the very first example code, your understanding of Java 8 Lambda and Functional Interface would already have been challenged even if you had read some other Java 8 books before. A very interesting read about both Unit Testing and Java 8.

I was already a believer in testing before purchasing this book. The following are a few things that I have found particularly good about this book:First, it tells a story. The use of personas to represent different attitudes toward testing is effective in illustrating the overlooked benefits of testing and a culture of testing. This is very useful if you have to be the evangelist making the case for testing to the rest of your team.Second, it contains some helpful mnemonic acronyms that you can use almost as checklists to help you write better tests.Third, it has a list of test smells to keep in mind as you are writing your tests. They help you keep your tests focused and even help to identify problems in your design.Finally, it demonstrates how you can use test-driven development to flesh out design details.Typically high quality from the PragProg guys: highly recommended!

I think this is an excellent book for beginner and intermediate Java developers.The concepts apply to all Java versions, and are not specific to Java 8. In fact they are applicable to other programming

languages as well.The book is divided into 3 parts:Part 1: Introduction to JUnit and powerful Hamcrest library.Part 2: Unit test best practices. How to design good unit tests?Part 3: How to maximize the benefits, by applying a virtuous cycle of test and refactoring. How to spot code smells, and refactor not only the code, but also the tests to keep everything maintainable and extensible. In addition, Mockito is introduced to improve test performance and cover hard to reach scenarios. Finally, there is a chapter demonstrating how to test threading and persistence -- often overlooked in other texts.Recommended.

Great book. I skipped the first 4 chapters, as I've already been using JUnit for a while.I really liked the emphasis on where/how to change your code to make it more testable. The refactoring examples were very helpful as well. The chapter on using mocks was only about 10-11 pages long, although it was a good intro to using mockito. The book does not go in depth on Java 8 features, but I did appreciate seeing the examples with this newer syntax.Overall very happy with this purchase.

Ã¢Â ÂœPragmatic Unit Testing in Java 8 with JUnitÃ¢Â Â• covers JUnit 4 and a mix of Java 7 and 8. JUnit 5 wasn't out yet when the book was written so the decision to cover JUnit 4 makes sense. There was good coverage of assertThat along with three stycles of exception testing.There were some Java 8 idioms used include functional interfaces, method references, streams and lambdas. There were also some places that could have used lambads and didn't. For example, chapter 8 makes a big point of refactoring to make the code cleaner. But then the anyMatches/matches methods use a loop.The narrative about Dale testing and Pat the skeptic added nice color. Each chapter ends with a short Ã¢Â ÂœAfterÃ¢Â Â• section that provides a mix of summary and transition. I also liked the technique of using arrows to show what changed in each refactoring and edition. Testing concepts were covered well including the FAST, Right BIPCEP and CORRECT acronyms.I think the book was great. It's a timely updated to the original Pragmatic Unit Testing book (which uses JUnit 3.8.) But I have to take off a tiny bit for the fact that Java 8 looks to have been retrofitted in.I give this book 9 out of 10 horseshoes.Disclosure: I received a review copy of this book from the publisher for reviewing it on behalf of CodeRanch.

This book is a fairly quick, light read. You can either write tests/code along with the book or read just to better understand best practices and get a little exposure to JUnit/Hamcrest. It's not a complete, in-depth guide to unit testing, but it does provide a solid basis for getting started and writing a wide variety of tests with little to no background in unit testing. The book is also not all that exclusive to

Java; its concepts could extend to many other OOP languages.The 'Java 8' part in the title seemed pretty meaningless. There's not a whole lot of Java 8 features in the book that related to testing; it seems like the authors just plug in some functional-style code in the examples.Other than that, it was a fantastic book and a book that I'll likely look back to in the future.

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