Pragmatic Unit Testing in Java with JUnit

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Learn how to improve your Java 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 JUnit 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) to help you remember all this stuff.

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. We'll show you how with helpful mnemonics, summarized in a handy tip sheet (also available from our www.pragmaticprogrammer.com website).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 with JUnit Details

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From Reader Review Pragmatic Unit Testing in Java with JUnit for online ebook

Kaloyan Roussev says

This book will make you very confident in unit testing for JAVA

David Workman says

A worthwhile read for someone looking for a solid introduction to both JUnit and unit testing in general.

This book focuses on practicalities, giving a solid basis and solid reasons for unit testing as a development practice. It makes it clear that unit testing should not be the only form of testing, but should be the lowest foundation upon which a solid testing plan is built.

The text is interspersed with examples and exercises for the reader to complete and appendixes provide a guide to installing JUnit and a summary of the important topics of the book as a quick reference. The writing style is accessible and easy to read with the anecdotes and narrative of the book being very similar to 'The Pragmatic Programmer' also by the same authors.

Overall, this book is a solid introduction to unit testing in both practicalities and underlying reasons. I would definitely recommend this to a java developer looking to start out in unit testing and is looking for an introductory text.

Kishor Sutar says

Good book for starters. With basic unit testing lessons in java.

Anish K George says

It is good book for the very basics. For a junior developer, who is starting to write programs, reading this book will help to create a correct perspective towards unit testing.

But if you are experienced successful programmer already I would suggest to avoid this book, since this book is seems to contain very old principles and lacking the information about the latest tools or frameworks for Unit testing

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Erika RS says

Pragmatic Unit Testing is a book about testing for developers. The content is appropriate for developers who

do not have much experience testing and for developers who do unit test their code but do not have formal training in testing.

The book describes the purpose of unit tests, how to write them, and what makes a good unit test. They give lots of examples to help developers figure out what kind of things are good to test and how to test them. Although a lot of the information can be found in general software engineering and development books, *Pragmatic Unit Testing* provides a concise, well explained introduction to developer testing.

I have a more complete summary here.

Diego says

Este libro pertenece a una serie de títulos en donde se van exponiendo varias herramientas de programación; en este tomo, se revisa JUnit que es un framework de pruebas para Java.

Además de mostrar de manera concisa cómo se usa JUnit, se exponen varios consejos y aspectos del testing; de hecho, la mayor parte del libro trata de eso. En algunas partes, se pierde la continuidad de la exposición debido a la revisión de los argumentos, aunque nada grave si se vuelve al punto de partida del tema visto.

Este libro es ideal para introducirse al tema de testing en programación.

Jean Tessier says

Very good intro to unit testing. Talks at great length about the need for tests and the advantages of designing for testability. It has a very nice tutorial on using JUnit and even briefly mentions the use of mock objects.

It is filled with very good pieces of advice. Many of them are arranged into catchy mnemonics. But they often feel forced and some are so long that it becomes hard to recall what they stand for. This reminded me of a similar device that I keep hearing: DRY - *Don't Repeat Yourself*. It's about removing code duplication, but everytime I see "DRY", it takes me a while to remember what it's about. So I try not to rely on mnemonics too much.

Pretty much everything it says I had already gathered from various other sources. Martin Fowler's books, Software Development magazine, Bob Martin's writings, etc. It is nice to have it all neatly summarized in one place, but it was all a little too entry-level for me. I would definitely recommend it to anyone who was not test-infected yet, though.

Very much like the authors' other book, The Pragmatic Programmer. I think DRY more or less originated in that book, actually.

Jonathan says

This book is another great book from the pragmatic programmers to help people get started with unit tests using junit. If you are already familiar with junit and writing unit tests, then there are a few tidbits of good

information. This book is definitely more for beginners.

Madhur Ahuja says

Verify short book on Java unit testing. Suitable for juniors and college goers. Doesn't contain advanced material such as how to mock database, network calls.