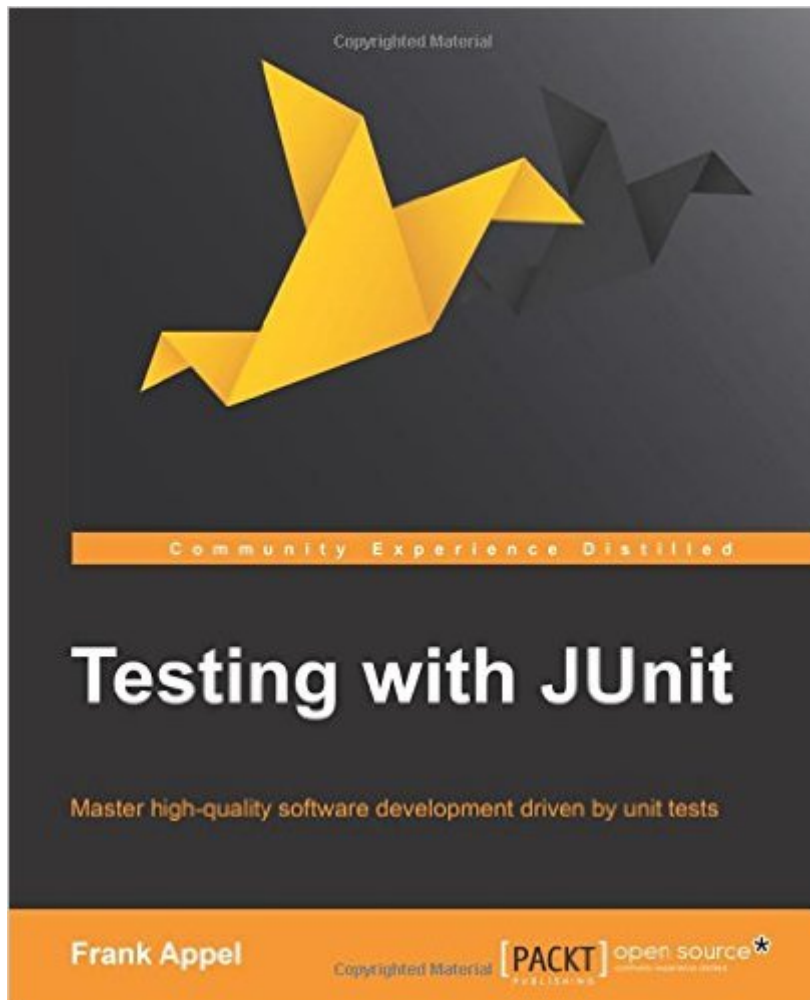


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# Testing With JUnit



## Synopsis

Master high quality software development driven by unit tests  
About This Book  
Design and implement robust system components by means of the de facto unit testing standard in Java  
Reduce defect rate and maintenance effort, plus simultaneously increase code quality and development pace  
Follow a step-by-step tutorial imparting the essential techniques based on real-world scenarios and code walkthroughs  
Who This Book Is For  
No matter what your specific background as a Java developer, whether you're simply interested in building up a safety net to reduce regressions of your desktop application or in improving your server-side reliability based on robust and reusable components, unit testing is the way to go. This book provides you with a comprehensive but concise entrance advancing your knowledge step-wise to a professional level.  
What You Will Learn  
Organize your test infrastructure and resources reasonably  
Understand and write well structured tests  
Decompose your requirements into small and independently testable units  
Increase your testing efficiency with on-the-fly generated stand-in components and deal with the particularities of exceptional flow  
Employ runners to adjust to specific test demands  
Use rules to increase testing safety and reduce boilerplate  
Use third party supplements to improve the expressiveness of your verification statements  
In Detail  
JUnit has matured to become the most important tool when it comes to automated developer tests in Java. Supported by all IDEs and build systems, it empowers programmers to deliver software features reliably and efficiently. However, writing good unit tests is a skill that needs to be learned; otherwise it's all too easy to end up in gridlocked development due to messed up production and testing code. Acquiring the best practices for unit testing will help you to prevent such problems and lead your projects to success with respect to quality and costs. This book explains JUnit concepts and best practices applied to the test first approach, a foundation for high quality Java components delivered in time and budget. From the beginning you'll be guided continuously through a practically relevant example and pick up background knowledge and development techniques step by step. Starting with the basics of tests organization you'll soon comprehend the necessity of well structured tests and delve into the relationship of requirement decomposition and the many-faceted world of test double usage. In conjunction with third-party tools you'll be trained in writing your tests efficiently, adapt your test case environment to particular demands and increase the expressiveness of your verification statements. Finally, you'll experience continuous integration as the perfect complement to support short feedback cycles and quality related reports for your whole team. The tutorial gives a profound entry point in the essentials of unit testing with JUnit and prepares you for test-related daily work challenges.  
Style and approach  
This is an intelligible tutorial based on an ongoing and non-trivial development example. Profound

introductions of concepts and techniques are provided stepwise as the programming challenges evolve. This allows you to reproduce and practice the individual skills thoroughly.

## Book Information

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## Customer Reviews

I always appreciate a book that starts off with a 'Getting Started' section that actually get's you started but left out a huge history lesson. The first page clearly explains why unit testing is so important, and how regression occurs in projects. The first graphical depiction of a unit test was displayed around page 4, and was I the only person who spotted the depth of inheritance value of 2? That's superb! As for my favorite chapter it would be 2, and it's simply because it was the 'who, what, when, where, and why' chapter. It really set my expectations of the proceeding chapters, if I can understand what's suppose to occur than I can program for it to occur properly. The quotes throughout the book are neat as well, they break up the huge chunks of information that needs to be digested and are just subtle enough to not annoy you. By the end of the book you'll understand why unit testing is important, how to get started, and how to get some automated tests going while you sleep over night. The ebook edition has some nice color coded graphics that really speak to the text, I find this to be extremely helpful as well as mandatory. Final note: UML Diagrams.. absolutely satisfied these were used in the book! Highly recommend picking up a copy of this title and getting started with unit testing.

Great book, not for the absolute beginner I would say, but once you comprehend how testing works this book has some great insights into the intricacies of testing. Showing multiple ways to do each nuanced testing mechanism. The only downside I would say is, sometimes it is heavy on the theory, where a nice bit of example code would explain what he is talking about more succinctly. Overall I like it.

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