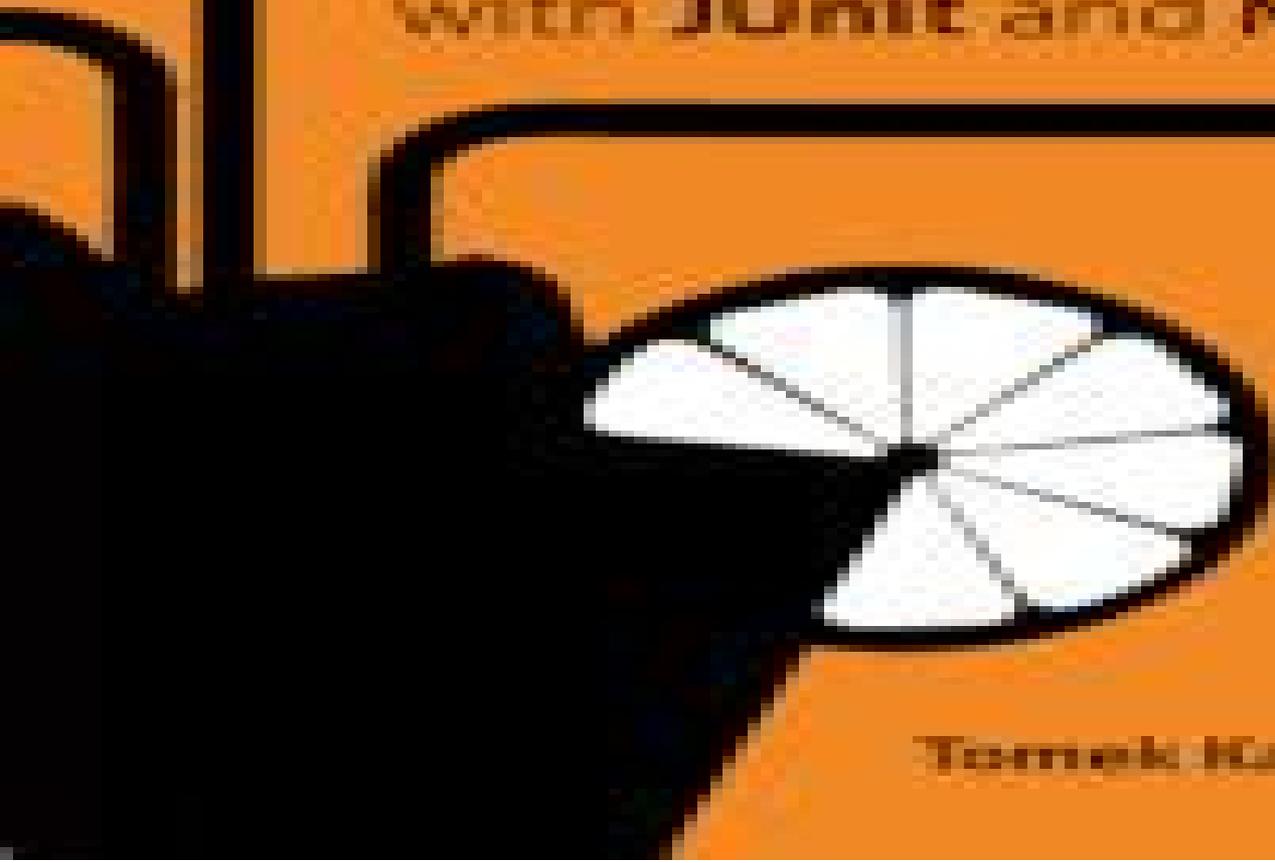


# Practical Unit Testing

with JUnit and Mockito



Tomek Kaczanowski

# Practical Unit Testing With Testng And Mockito

**Tomasz Kaczanowski, Tomek  
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## **Practical Unit Testing With TestNG And Mockito:**

*Practical Unit Testing with TestNG and Mockito* Tomasz Kaczanowski, Tomek Kaczanowski, 2012 [Java Testing for New Developers: A Practical Guide with Examples](#) William E. Clark, 2025-03-24 *Java Testing for New Developers A Practical Guide with Examples* provides comprehensive instruction on the essential techniques and methodologies required to build robust test cases in Java. The book delivers a structured approach covering fundamental concepts, test case creation, and the intricacies of various testing frameworks such as JUnit and TestNG. With clear explanations and detailed code examples, it equips new developers with the skills needed to ensure code reliability and maintainability. The guide is meticulously organized to lead readers through the setup of a suitable testing environment, the principles of unit testing, and advanced methods like test-driven development. Each section builds logically upon previous topics, offering a precise understanding of how to integrate automated testing into the development process, configure continuous integration pipelines, and address common testing challenges. The content emphasizes practical implementation and real-world applications, making it a valuable resource for those starting their journey in Java development. Attention is given to modern practices including integration testing, the use of mocking and stubbing, and effective debugging strategies. This book serves as both a comprehensive introduction for beginners and as a concise reference for experienced practitioners looking to refine their testing acumen. Its focused narrative and technical clarity ensure that readers are well-prepared to implement effective, reliable testing strategies in professional Java projects.

*Practical Unit Testing with JUnit and Mockito* Tomek Kaczanowski, 2019-11-25. This book explains in detail how to implement unit tests using two very popular open-source Java technologies: JUnit and Mockito. It presents a range of techniques necessary to write high-quality unit tests, e.g., mocks, parametrized tests, and matchers. It also discusses trade-offs related to the choices we have to make when dealing with some real-life code issues. The book stresses the importance of writing readable and maintainable unit tests and puts a lot of stress on code quality. It shows how to achieve testable code and to eliminate common mistakes by following the Test-Driven Development approach. Every topic discussed in the book is illustrated with code examples, and each chapter is accompanied by some exercises. By reading this book, you will grasp the role and purpose of unit tests, write high-quality, readable, and maintainable unit tests, learn how to use JUnit and Mockito, but also other useful tools, avoid common pitfalls when writing unit tests, recognize bad unit tests and fix them in no time, develop code following the Test-Driven Development (TDD) approach, use mocks, stubs, and test spies intelligently, measure the quality of your tests using code coverage and mutation testing, learn how to improve your tests so that they are an asset and not a burden, test collections, expected exceptions, time-dependent methods, and much more. Customize test reports so that they show you what you really need to know. Master tools and techniques your team members have never even heard of, priceless. Nowadays, every developer is expected to write unit tests. While simple in theory, in practice, writing high-quality unit tests can turn out to be a real challenge. This book will help

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**Mockito Techniques for Effective Unit Testing** Richard Johnson, 2025-06-11 Mockito Techniques for Effective Unit Testing Unlock the full potential of unit testing in Java with Mockito Techniques for Effective Unit Testing This comprehensive guide offers a deep dive into the essential and advanced capabilities of Mockito the industry standard mocking framework providing software engineers and test architects with a practical roadmap for designing robust maintainable and scalable test suites Beginning with a thorough exploration of mocking fundamentals the book details Mockito's architecture configuration best practices for modern build environments and seamless integration with leading testing frameworks such as JUnit and TestNG With emphasis on SOLID principles and sound test design readers gain a toolkit to efficiently isolate code under test while ensuring high code quality and confidence in every release Progressing into sophisticated test scenarios the book addresses the nuances of advanced mock and spy strategies from dynamic mock creation and deep stubbing of complex object graphs to the challenges of mocking static final and private methods It navigates verification modes partial implementation patterns and best practices for argument capturing and BDD workflows Special attention is given to the intricacies of testing distributed systems microservices asynchronous code and event driven architectures providing actionable strategies for handling concurrency time based logic and integration points across various layers and paradigms of modern Java applications Beyond technical prowess Mockito Techniques for Effective Unit Testing covers the organizational and ecosystem dimensions vital for sustained testing excellence Readers will discover expert techniques for structuring large scale test suites refactoring legacy code ensuring compliance and security in test environments and extending Mockito for bespoke needs Detailed guidance on optimizing performance leveraging code coverage and static analysis tools and integrating with CI CD pipelines empowers teams to deliver resilient well tested

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*Mockito Essentials* Sujoy Acharya, 2014-10-24 This book is ideal for developers who have some experience in Java application development as well as some basic knowledge of test doubles and JUnit testing This book also introduces you to the fundamentals of JUnit testing test doubles refactoring legacy code and writing JUnit tests for GWT and web services

*JUnit 5* Havelka Arnošt, Pecinovský Rudolf, 2018-10-30 Než le na tom jestli je jednotkov testov n v denn chleba nebo zda se jako program to i s touto problematikou teprve seznamujete p ru ku v novanou obl ben mu frameworku JUnit 5 toti ocen te v ka d m p pad

*Mastering Unit Testing Using Mockito and Junit Handbook* Henry Burned, 2017-06-07 This book is for you if you are a developer with some experience in Java application development as well as a basic knowledge of JUnit testing But for those whose skill set is void of any prior experience with JUnit testing the book also covers basic fundamentals to get you acquainted with the concepts before putting them into practise It is insanity to keep doing things the same way and expect them to improve Any program is useful only when it is functional hence before applying complex tools patterns or APIs to your production code checking software functionality is must Automated JUnit tests help you verify your assumptions continuously detect side effects quickly and also help you save time

**Instant Mockito** Marcin Grzejszczak, 2013 Filled with practical step by step instructions and clear explanations for the most important and useful tasks This is a standard tutorial based guide using plenty of examples for illustration Instant Mockito is ideal for developers new to unit testing who are looking to get to know how to create high quality tests using Mockito It s assumed that you will have some experience in Java already

**Unit Testing in Java** Johannes Link, 2003-06-03 Software testing is indispensable and is one of the most discussed topics in software development today Many companies address this issue by assigning a dedicated software testing phase towards the end of their development cycle However quality cannot be tested into a buggy application Early and continuous unit testing has been shown to be crucial for high quality software and low defect rates Yet current books on testing ignore the developer s point of view and give little guidance on how to bring the overwhelming amount of testing theory into practice Unit Testing in Java represents a practical introduction to unit testing

for software developers It introduces the basic test first approach and then discusses a large number of special issues and problem cases The book instructs developers through each step and motivates them to explore further Shows how the discovery and avoidance of software errors is a demanding and creative activity in its own right and can build confidence early in a project Demonstrates how automated tests can detect the unwanted effects of small changes in code within the entire system Discusses how testing works with persistency concurrency distribution and web applications Includes a discussion of testing with C and Smalltalk

*Mockito Made Clear* Ken Kousen,2023 Mockito is the most popular framework in the Java world for automating unit testing with dependencies Learn the Mockito API and how and when to use stubs mocks and spies On a deeper level discover why the framework does what it does and how it can simplify unit testing in Java Using Mockito you ll be able to isolate the code you want to test from the behavior or state of external dependencies without coding details of the dependency You ll gain insights into the Mockito API save time when unit testing and have confidence in your Java programs If you ve only ever run a few JUnit tests or injected stubs into classes to return preset values it s time to level up your Java toolbox Dependencies on other classes and external resources can obscure issues and make bugs hard to detect You need to test classes in isolation to truly pinpoint your problems And while you could write dummy classes to replace dependencies yourself Mockito automates the process and helps you fix your code faster Start with the Mockito API to generate fake classes for dependencies configure how each should respond when their methods are called and verify that the class under test interacts with dependencies the way you d expect Next build unit tests with the Mockito framework and feel confident not just that methods are called but that they are called the correct number of times and in the correct order Along the way follow clear test examples based on JUnit 5 to create stubs mocks and spies and find the source of any problems lurking in Java classes Save time write better code and have more confidence in your Java programs with Mockito

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