

the art of

with examples in JavaScript

# UNIT TESTING

THIRD EDITION



 MANNING

ROY OSHEROVE  
WITH VLADIMIR KHORIKOV

# The Art Of Unit Testing With Examples In Net

**Maria Marinaro, Roberto Tagliaferri**



## **The Art Of Unit Testing With Examples In Net:**

**The Art of Unit Testing** Roy Osherove, 2013-11-24 Summary The Art of Unit Testing Second Edition guides you step by step from writing your first simple tests to developing robust test sets that are maintainable readable and trustworthy You ll master the foundational ideas and quickly move to high value subjects like mocks stubs and isolation including frameworks such as Moq FakeItEasy and Typemock Isolator You ll explore test patterns and organization working with legacy code and even untestable code Along the way you ll learn about integration testing and techniques and tools for testing databases and other technologies About this Book You know you should be unit testing so why aren t you doing it If you re new to unit testing if you find unit testing tedious or if you re just not getting enough payoff for the effort you put into it keep reading The Art of Unit Testing Second Edition guides you step by step from writing your first simple unit tests to building complete test sets that are maintainable readable and trustworthy You ll move quickly to more complicated subjects like mocks and stubs while learning to use isolation mocking frameworks like Moq FakeItEasy and Typemock Isolator You ll explore test patterns and organization refactor code applications and learn how to test untestable code Along the way you ll learn about integration testing and techniques for testing with databases The examples in the book use C but will benefit anyone using a statically typed language such as Java or C Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications What s Inside Create readable maintainable trustworthy tests Fakes stubs mock objects and isolation mocking frameworks Simple dependency injection techniques Refactoring legacy code About the Author Roy Osherove has been coding for over 15 years and he consults and trains teams worldwide on the gentle art of unit testing and test driven development His blog is at [ArtOfUnitTesting.com](http://ArtOfUnitTesting.com) Table of Contents PART 1 GETTING STARTED The basics of unit testing A first unit test PART 2 CORE TECHNIQUES Using stubs to break dependencies Interaction testing using mock objects Isolation mocking frameworks Digging deeper into isolation frameworks PART 3 THE TEST CODE Test hierarchies and organization The pillars of good unit tests PART 4 DESIGN AND PROCESS Integrating unit testing into the organization Working with legacy code Design and testability [Mastering the Art of Unit Testing: Unraveling the Secrets of Expert-Level Programming](#) Steve Jones, 2025-02-24 Dive deep into the precision driven world of software quality with Mastering the Art of Unit Testing Unraveling the Secrets of Expert Level Programming This essential guide equips seasoned developers with the advanced strategies and insights necessary to refine their unit testing practices Carefully curated to explore the intricate facets of unit testing this book provides a detailed exploration of foundational principles sophisticated design patterns and the integration of test automation within Agile and DevOps environments Each chapter meticulously covers crucial aspects ranging from effective usage of mocks and stubs to mastering Test Driven Development and its seamless integration with refactoring Readers will gain expertise in handling legacy code challenges ensuring comprehensive test coverage and utilizing cutting edge automated testing frameworks By bringing clarity to complex topics like

asynchronous code testing and future trends influenced by AI and machine learning this book becomes an indispensable resource for maintaining software quality and adaptability Mastering the Art of Unit Testing isn't just a guide it's a transformative toolkit designed to elevate your testing capabilities and deepen your understanding of contemporary testing methodologies Whether you're aiming to bolster your project's test reliability or embrace future testing innovations this book offers the practical wisdom and expert knowledge needed to achieve excellence in software development Join the ranks of expert programmers committed to advancing their craft and ensuring superior software quality

[The Art of Unit Testing, Third Edition](#) Roy Osherove, 2024-03-26 Unit testing is more than just a collection of tools and practices it's a state of mind This bestseller reveals the master's secrets for delivering robust maintainable and trustworthy code Thousands of developers have learned to hone their code quality under the tutelage of The Art of Unit Testing This revised third edition updates an international bestseller to reflect modern development tools and practices as well as to cover JavaScript

Inside The Art of Unit Testing Third Edition you will learn how to Create readable maintainable and trustworthy tests Work with fakes stubs mock objects and isolation frameworks Apply simple dependency injection techniques Refactor legacy code with confidence Test both frontend and backend code Effective unit tests streamline your software development process and ensure you deliver consistent high quality code every time With practical examples in JavaScript and Node this hands on guide takes you from your very first unit tests all the way to comprehensive test suites naming standards and refactoring techniques You'll explore test patterns and organization working with legacy code and even untestable code The many tool agnostic examples are presented in JavaScript and carefully designed so that they apply to code written in any language About the technology The art of unit testing is more than just learning the right collection of tools and practices It's about understanding what makes great tests tick finding the right strategy for each unique situation and knowing what to do when the testing process gets messy This book delivers insights and advice that will transform the way you test your software About the book The Art of Unit Testing Third Edition shows you how to create readable and maintainable tests It goes well beyond basic test creation into organization wide test strategies troubleshooting working with legacy code and merciless refactoring You'll love the practical examples and familiar scenarios that make testing come alive as you read This third edition has been updated with techniques specific to object oriented functional and modular coding styles The examples use JavaScript What's inside

Deciding on test types and strategies Test Entry Exit Points Refactoring legacy code Fakes stubs mock objects and isolation frameworks Object Oriented Functional and Modular testing styles About the reader Examples use JavaScript TypeScript and Node.js About the author Roy Osherove is an internationally recognized expert in unit testing and agile software methodology Vladimir Khorikov is the author of Manning's Unit Testing Principles Practices and Patterns a Pluralsight author and a Microsoft MVP

Table of Contents PART 1 1 The basics of unit testing 2 A first unit test PART 2 3 Breaking dependencies with stubs 4 Interaction testing using mock objects 5 Isolation frameworks 6 Unit testing asynchronous code

PART 3 7 Trustworthy tests 8 Maintainability PART 4 9 Readability 10 Developing a testing strategy 11 Integrating unit testing into the organization 12 Working with legacy code Appendix Monkey patching functions and modules

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*The Art Of Unit Testing With Examples In .Net* Roy Osherove, 2009-08-01 The Art of Unit Testing builds on top of what's already been written about this important topic It guides you step by step from simple tests to tests that are maintainable readable and trustworthy It covers advanced subjects like mocks stubs and frameworks such as Typemock Isolator and Rhino Mocks

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*The Well-grounded Rubyist* David A. Black, 2009 Taking the interested novice to proficient practitioner this beautifully written tutorial begins with the basic steps to get readers' first Ruby program up and running and goes on to explore sophisticated

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*International Conference on Intelligent Manufacturing* Ji Zhou,1995      *The Art of M&A, Fourth Edition* Stanley Foster Reed,Alexandra Reed Lajoux,H. Peter Nesvold,2007-05-04 Authoritative and completely up to date the Fourth Edition of The Art of M A is an unsurpassed one stop guide to every facet of mergers and acquisitions that enables you to make winning deals with complete confidence This definitive resource retains its popular Q A format offering quick access to all the changes that have occurred in the field since the merger wave of the 1990s The book explores every key aspect of winning M A transactions and presents advice on avoiding common M A pitfalls The Fourth Edition of The Art of M A features vital information on Getting Started in Mergers and Acquisitions learning the basic M A process requirements negotiating skills and objectives Planning and Finding deciding what to buy and then locating it Valuation and Pricing using multiple valuation methods to discover the true value of an acquired company or unit The Art of Financing and Refinancing mastering funding sources and issues Structuring M A B Transactions managing general tax and accounting considerations The Due Diligence Inquiry looking into the past present and future risks of the business to be purchased Negotiating the Acquisition Agreement and the Letter of Intent understanding two vital documents in the M A process Closing synchronizing the many individual items to produce a harmonious transaction Postmerger Integration and Divestitures following through after the M A deal to capture the economic value of synergies Special Issues for M A in Public Companies\_examining the unique legal and business considerations of public entities Workouts Bankruptcies and Liquidations handling specific financial problems that arise in M A transactions with entities in the zone of insolvency Structuring Transactions with International Aspects developing the necessary skills and knowledge to do M A deals across national borders Filled with detailed examples and case studies this updated classic also includes discussion of purchase accounting Section 404 new legal cases with M A implications and more

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a variety of topics related to neural networks including pattern recognition signal processing theoretical models applications in science and industry virtual reality fuzzy systems and software algorithms By providing the reader with a comprehensive overview of recent research work in this area the volume makes an invaluable contribution to the Perspectives in Neural Computing Series Neural Nets WIRN VIETRI 97 will provide invaluable reading material for anyone who needs to keep up to date with the latest developments in neural networks and related areas It will be of particular interest to academic and industrial researchers and postgraduate and graduate students

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## **Table of Contents The Art Of Unit Testing With Examples In Net**

1. Understanding the eBook The Art Of Unit Testing With Examples In Net
  - The Rise of Digital Reading The Art Of Unit Testing With Examples In Net
  - Advantages of eBooks Over Traditional Books
2. Identifying The Art Of Unit Testing With Examples In Net
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an The Art Of Unit Testing With Examples In Net
  - User-Friendly Interface

4. Exploring eBook Recommendations from The Art Of Unit Testing With Examples In Net
  - Personalized Recommendations
  - The Art Of Unit Testing With Examples In Net User Reviews and Ratings
  - The Art Of Unit Testing With Examples In Net and Bestseller Lists
5. Accessing The Art Of Unit Testing With Examples In Net Free and Paid eBooks
  - The Art Of Unit Testing With Examples In Net Public Domain eBooks
  - The Art Of Unit Testing With Examples In Net eBook Subscription Services
  - The Art Of Unit Testing With Examples In Net Budget-Friendly Options
6. Navigating The Art Of Unit Testing With Examples In Net eBook Formats
  - ePub, PDF, MOBI, and More
  - The Art Of Unit Testing With Examples In Net Compatibility with Devices
  - The Art Of Unit Testing With Examples In Net Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of The Art Of Unit Testing With Examples In Net
  - Highlighting and Note-Taking The Art Of Unit Testing With Examples In Net
  - Interactive Elements The Art Of Unit Testing With Examples In Net
8. Staying Engaged with The Art Of Unit Testing With Examples In Net
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers The Art Of Unit Testing With Examples In Net
9. Balancing eBooks and Physical Books The Art Of Unit Testing With Examples In Net
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection The Art Of Unit Testing With Examples In Net
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine The Art Of Unit Testing With Examples In Net
  - Setting Reading Goals The Art Of Unit Testing With Examples In Net
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of The Art Of Unit Testing With Examples In Net
  - Fact-Checking eBook Content of The Art Of Unit Testing With Examples In Net
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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