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Another day without Test-
Driven Development means

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more time wasted chasing bugs and watching your code deteriorate. You thought TDD was for someone else, but it's not! It's for you, the embedded C programmer.

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TDD helps you prevent defects and build software with a long useful life. This is the first book to teach the hows and whys of TDD for C programmers. TDD is a

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modern programming
practice C developers
need to know. It's a
different way to
program---unit tests are
written in a tight
feedback loop with the

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production code,
assuring your code does
what you think. You get
valuable feedback every
few minutes. You find
mistakes before they
become bugs. You get

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early warning of design problems. You get immediate notification of side effect defects. You get to spend more time adding valuable features to your

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product. James is one of the few experts in applying TDD to embedded C. With his 1.5 decades of training, coaching, and practicing TDD in C, C++, Java, and C# he

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will lead you from being a novice in TDD to using the techniques that few have mastered. This book is full of code written for embedded C programmers. You don't

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just see the end product, you see code and tests evolve. James leads you through the thought process and decisions made each step of the way. You'll learn

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techniques for test-driving code right next to the hardware, and you'll learn design principles and how to apply them to C to keep your code clean and

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flexible. To run the examples in this book, you will need a C/C++ development environment on your machine, and the GNU GCC tool chain or Microsoft Visual Studio

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for C++ (some project
conversion may be
needed).

Explore functional
programming and discover
new ways of thinking
about code. You know you

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need to master
functional programming,
but learning one
functional language is
only the start. In this
book, through articles
drawn from PragPub

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magazine and articles
written specifically for
this book, you'll
explore functional
thinking and functional
style and idioms across
languages. Led by expert

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guides, you'll discover the distinct strengths and approaches of Clojure, Elixir, Haskell, Scala, and Swift and learn which best suits your needs.

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Hillerson, Josh

Chisholm, and Bruce

Tate. Functional

programming is on the

rise because it lets you

write simpler, cleaner

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code, and its emphasis on immutability makes it ideal for maximizing the benefits of multiple cores and distributed solutions. So far nobody's invented the

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perfect functional
language - each has its
unique strengths. In
Functional Programming:
A PragPub Anthology,
you'll investigate the
philosophies, tools, and

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idioms of five different functional programming languages. See how Swift, the development language for iOS, encourages you to build highly scalable apps

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using functional techniques like map and reduce. Discover how Scala allows you to transition gently but deeply into functional programming without

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losing the benefits of the JVM, while with Lisp-based Clojure, you can plunge fully into the functional style. Learn about advanced functional concepts in

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Haskell, a pure functional language making powerful use of the type system with type inference and type classes. And see how functional programming

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is becoming more elegant and friendly with Elixir, a new functional language built on the powerful Erlang base. The industry has been embracing functional

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programming more and more, driven by the need for concurrency and parallelism. This collection of articles will lead you to mastering the functional

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approach to problem solving. So put on your explorer's hat and prepare to be surprised. The goal of exploration is always discovery.

What You Need:

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Familiarity with one or more programming languages.

The Fit open source testing framework brings unprecedented agility to the entire development

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process. Fit for
Developing Software
shows you how to use Fit
to clarify business
rules, express them with
concrete examples, and
organize the examples

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into test tables that drive testing throughout the software lifecycle. Using a realistic case study, Rick Mugridge and Ward Cunningham--the creator of

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Fit--introduce each of
Fit's underlying
concepts and techniques,
and explain how you can
put Fit to work
incrementally, with the
lowest possible risk.

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Highlights include
Integrating Fit into
your development
processes Using Fit to
promote effective
communication between
businesspeople, testers,

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and developers

Expressing business
rules that define
calculations, decisions,
and business processes
Connecting Fit tables to
the system with

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"fixtures" that check whether tests are actually satisfied
Constructing tests for code evolution, restructuring, and other changes to legacy

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systems Managing the
quality and evolution of
tests A companion Web
site

(<http://fit.c2.com/>)
that offers additional
resources and source

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code

Class-tested and
coherent, this textbook
teaches classical and
web information
retrieval, including web
search and the related

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areas of text

classification and text
clustering from basic
concepts. It gives an up-
to-date treatment of all
aspects of the design
and implementation of

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systems for gathering,
indexing, and searching
documents; methods for
evaluating systems; and
an introduction to the
use of machine learning
methods on text

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collections. All the important ideas are explained using examples and figures, making it perfect for introductory courses in information retrieval for advanced

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undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully

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structured in order to
make teaching more
natural and effective.
Slides and additional
exercises (with
solutions for lecturers)
are also available

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through the book's
supporting website to
help course instructors
prepare their lectures.
From Journeyman to
Master
Python Testing with

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pytest

Simple, Rapid,
Effective, and Scalable
Pragmatic Thinking and
Learning

your journey to mastery,
20th Anniversary Edition

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Exploring Clojure,
Elixir, Haskell, Scala,
and Swift

Dependency Injection
Principles, Practices,
and Patterns

Learn Rails the way the

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Rails core team recommends it, along with the tens of thousands of developers who have used this broad, far-reaching tutorial and reference. If you're new to Rails, you'll get step-by-step guidance. If you're an

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experienced developer, get the comprehensive, insider information you need for the latest version of Ruby on Rails. The new edition of this award-winning classic is completely updated for Rails 6 and Ruby 2.6, with

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information on system testing, Webpack, and advanced JavaScript. Ruby on Rails helps you produce high-quality, beautiful-looking web applications quickly - you concentrate on creating the application, and Rails

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takes care of the details.
Rails 6 brings many
improvements, and this
edition is updated to cover
the new features and changes
in best practices. We start
with a step-by-step
walkthrough of building a

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real application, and in-depth chapters look at the built-in Rails features. Follow along with an extended tutorial as you write a web-based store application. Eliminate tedious configuration and

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housekeeping, seamlessly
incorporate Ajax and
JavaScript, send and receive
emails, manage background
jobs with ActiveJob, and
build real-time features
using WebSockets and
ActionCable. Test your

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applications as you write them using the built-in unit, integration, and system testing frameworks, internationalize your applications, and deploy your applications easily and securely. New in this

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edition is coverage of Action Mailer, which allows you to receive emails in your app as well as ActionText, a zero-configuration rich text editing feature. Rails 1.0 was released in December

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2005. This book was there from the start, and didn't just evolve alongside Rails, it evolved with Rails. It has been developed in consultation with the Rails core team. In fact, Rails itself is tested against the

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code in this book. What You
Need: All you need is a
Windows, Mac OS X, or Linux
machine to do development
on. This book will take you
through the steps to install
Rails and its dependencies.
If you aren't familiar with

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the Ruby programming language, this book contains a chapter that covers the basics necessary to understand the material in the book.

A tutorial and reference to the object-oriented

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programming language for beginning to experienced programmers, updated for version 1.8, describes the language's structure, syntax, and operation, and explains how to build applications. Original.

Read Free Pragmatic Unit Testing In C With Nunit Pragmatic Bookshelf (Intermediate)

Get more out of your legacy systems: more performance, functionality, reliability, and manageability Is your code easy to change? Can you get nearly instantaneous feedback when you do change

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it? Do you understand it? If the answer to any of these questions is no, you have legacy code, and it is draining time and money away from your development efforts. In this book, Michael Feathers offers

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start-to-finish strategies
for working more effectively
with large, untested legacy
code bases. This book draws
on material Michael created
for his renowned Object
Mentor seminars: techniques
Michael has used in

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mentoring to help hundreds of developers, technical managers, and testers bring their legacy systems under control. The topics covered include Understanding the mechanics of software change: adding features,

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fixing bugs, improving
design, optimizing
performance Getting legacy
code into a test harness
Writing tests that protect
you against introducing new
problems Techniques that can
be used with any language or

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platform—with examples in
Java, C++, C, and C#
Accurately identifying where
code changes need to be made
Coping with legacy systems
that aren't object-oriented
Handling applications that
don't seem to have any

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structure This book also includes a catalog of twenty-four dependency-breaking techniques that help you work with program elements in isolation and make safer changes.

Test-Driven Development

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(TDD) is now an established technique for delivering better software faster. TDD is based on a simple idea: Write tests for your code before you write the code itself. However, this "simple" idea takes skill

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and judgment to do well. Now there's a practical guide to TDD that takes you beyond the basic concepts. Drawing on a decade of experience building real-world systems, two TDD pioneers show how to let tests guide your

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development and “grow” software that is coherent, reliable, and maintainable. Steve Freeman and Nat Pryce describe the processes they use, the design principles they strive to achieve, and some of the tools that help

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them get the job done.

Through an extended worked example, you'll learn how TDD works at multiple levels, using tests to drive the features and the object-oriented structure of the code, and using Mock Objects

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to discover and then describe relationships between objects. Along the way, the book systematically addresses challenges that development teams encounter with TDD—from integrating TDD into your processes to

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testing your most difficult features. Coverage includes Implementing TDD effectively: getting started, and maintaining your momentum throughout the project Creating cleaner, more expressive, more

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sustainable code Using tests
to stay relentlessly focused
on sustaining quality
Understanding how TDD, Mock
Objects, and Object-Oriented
Design come together in the
context of a real software
development project Using

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Mock Objects to guide object-oriented designs
Succeeding where TDD is difficult:
managing complex test data,
and testing persistence and concurrency
Practical Statecharts in
C/C++

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Agile Web Development with
Rails 6

Code Better, Sleep Better
Test-Driven Development with
Python

The Clean Coder

97 Things Every Programmer
Should Know

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The Software Craftsman

Fearlessly change the design of your iOS code with solid unit tests. Use Xcode's built-in test framework XCTest and Swift to get rapid feedback on all your code - including legacy code. Learn the tricks and techniques of testing all

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iOS code, especially view controllers (UIViewController), which are critical to iOS apps. Learn to isolate and replace dependencies in legacy code written without tests. Practice safe refactoring that makes these tests possible, and watch all your changes get verified quickly

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and automatically. Make even the boldest code changes with complete confidence. Manual code and UI testing get slower the deeper your navigation hierarchy goes. It can take several taps just to reach a particular screen, never mind the actual workflow tests. Automatic

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unit testing offers such rapid feedback that it can change the rules of development. Bring testing to iOS development, even for legacy code. Use XCTest to write unit tests in Swift for all your code. iOS developers typically reserve unit tests for their model classes alone.

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But that approach skips most of the code common to iOS apps, especially with UIViewControllers. Learn how to unit test these view controllers to expand your unit testing possibilities. Since good unit tests form the bedrock for safe refactoring, you're empowered to

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make bold changes. Learn how to avoid the most common mistakes Swift programmers make with the XCTest framework. Use code coverage to find holes in your test suites. Learn how to identify hard dependencies. Reshape the design of your code quickly, with less risk

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and less fear.

*'Downright revolutionary... the title
is a major understatement...*

*'Quantum Programming' may
ultimately change the way
embedded software is designed.' --
Michael Barr, Editor-in-Chief,
Embedded Systems Programming*

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magazine (Click here

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.

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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

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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.

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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

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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.

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Do less work when testing your Python code, but be just as expressive, just as elegant, and just as readable. The pytest testing framework helps you write tests quickly and keep them readable and maintainable - with no boilerplate code. Using a robust yet simple

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fixture model, it's just as easy to write small tests with pytest as it is to scale up to complex functional testing for applications, packages, and libraries. This book shows you how. For Python-based projects, pytest is the undeniable choice to test your code if you're looking for a

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full-featured, API-independent, flexible, and extensible testing framework. With a full-bodied fixture model that is unmatched in any other tool, the pytest framework gives you powerful features such as assert rewriting and plug-in capability - with no boilerplate code.

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With simple step-by-step instructions and sample code, this book gets you up to speed quickly on this easy-to-learn and robust tool. Write short, maintainable tests that elegantly express what you're testing. Add powerful testing features and still speed up test

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times by distributing tests across multiple processors and running tests in parallel. Use the built-in assert statements to reduce false test failures by separating setup and test failures. Test error conditions and corner cases with expected exception testing, and use

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one test to run many test cases with parameterized testing. Extend pytest with plugins, connect it to continuous integration systems, and use it in tandem with tox, mock, coverage, unittest, and doctest. Write simple, maintainable tests that elegantly express what you're

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***testing and why. What You Need:
The examples in this book are
written using Python 3.6 and pytest
3.0. However, pytest 3.0 supports
Python 2.6, 2.7, and Python 3.3-3.6.
Xctest Tips and Techniques Using
Swift
Introduction to Information***

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Retrieval

The Pragmatic Programmers' Guide

Refactoring Test Code

Obey the Testing Goat: Using

Django, Selenium, and JavaScript

Software Testing and Quality

Assurance

AGILE PRIN PATTS PRACTS C#_1

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Learn how to improve your C# 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

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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

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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

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the freely available NUnit 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

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www.pragmaticprogrammer.com
website). 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

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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

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testing to improve your design skills. We'll show you frequent "gotchas"--along with the fixes--to save you time when problems come up. But the best part is that you don't need a sweeping mandate to change your whole team or your

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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

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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

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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

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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,

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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

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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

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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.

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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

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examples. When it comes to programming, hands-on is the only way to learn!

The latest title in Addison Wesley's world-renowned Robert C. Martin Series on better software development, Code That Fits in

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Your Head offers indispensable practical advice for writing code at a sustainable pace, and controlling the complexity that causes too many software projects to spin out of control. Reflecting decades of experience consulting on software

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projects and helping development teams succeed, Mark Seemann shares proven practices and heuristics, supported by realistic advice. His guidance ranges from checklists to teamwork, encapsulation to decomposition,

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API design to unit testing and troubleshooting. Throughout, Seemann illuminates his insights with up-to-date code examples drawn from a start to finish sample project. Seemann's examples are written in C##, and designed to be

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clear and useful to every object-oriented enterprise developer, whether they use C#, Java, or another language. Code That Fits in Your Head is accompanied by the complete code base for this sample application, organized in a

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Git repository to facilitate further exploration of details that don't fit in the text.

This book is for everyone who needs to test the web. As a tester, you'll automate your tests. As a developer, you'll build more robust

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solutions. And as a team, you'll gain a vocabulary and a means to coordinate how to write and organize automated tests for the web. Follow the testing pyramid and level up your skills in user interface testing, integration

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testing, and unit testing. Your new skills will free you up to do other, more important things while letting the computer do the one thing it's really good at: quickly running thousands of repetitive tasks. This book shows you how to do three

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things: How to write really good automated tests for the web. How to pick and choose the right ones. * How to explain, coordinate, and share your efforts with others. If you're a traditional software tester who has never written an

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automated test before, this is the perfect book for getting started. Together, we'll go through everything you'll need to start writing your own tests. If you're a developer, but haven't thought much about testing, this book will

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show you how to move fast without breaking stuff. You'll test RESTful web services and legacy systems, and see how to organize your tests. And if you're a team lead, this is the Rosetta Stone you've been looking for. This book will help you

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bridge that testing gap between your developers and your testers by giving your team a model to discuss automated testing, and most importantly, to coordinate their efforts. The Way of the Web Tester is packed with cartoons, graphics,

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best practices, war stories, plenty of humor, and hands-on tutorial exercises that will get you doing the right things, the right way.

How Tests Drive the Code

How Agile Masters Deliver Great Software

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Growing Object-Oriented Software,
Guided by Tests

The Agile Samurai

Code That Fits in Your Head

Behaviour-Driven Development for

Testers and Developers

Building Quality into Software

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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

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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

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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

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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

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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

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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

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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. Table

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preferably one that supports C++11. Examples presented in the book were built under gcc 4.7.2. Google Mock 1.6 (downloadable for free; it contains Google Test as well) or an alternate C++ unit testing tool. Most examples in the book

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are written for Google Mock, but it isn't difficult to translate them to your tool of choice. A good programmer's editor or IDE. cmake, preferably. Of course, you can use your own preferred make too. CMakeLists.txt files are provided for each project.

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with a staging server Apply tests
to the third-party plugins you
integrate into your site Run tests
automatically by using a
Continuous Integration**

**environment Use TDD to build a
REST API with a front-end Ajax
interface**

**Summary Dependency Injection
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Patterns teaches you to use DI to
reduce hard-coded dependencies
between application components.**

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examples, you'll develop a foundation you can apply to any of the many DI libraries for .NET and .NET Core. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

About the Technology

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Dependency Injection (DI) is a great way to reduce tight coupling between software components. Instead of hard-coding dependencies, such as specifying a database driver, you make those connections through a third party. Central to

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application frameworks like ASP.NET Core, DI enables you to better manage changes and other complexity in your software. About the Book Dependency Injection Principles, Practices, and Patterns is a revised and expanded edition of the

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bestselling classic Dependency Injection in .NET. It teaches you DI from the ground up, featuring relevant examples, patterns, and anti-patterns for creating loosely coupled, well-structured applications. The well-annotated code and diagrams use C#

examples to illustrate principles that work flawlessly with modern object-oriented languages and DI libraries. What's Inside Refactoring existing code into loosely coupled code DI techniques that work with statically typed OO languages

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Integration with common .NET frameworks Updated examples illustrating DI in .NET Core About the Reader For intermediate OO developers. About the Authors Mark Seemann is a programmer, software architect, and speaker who has

been working with software since 1995, including six years with Microsoft. Steven van Deursen is a seasoned .NET developer and architect, and the author and maintainer of the Simple Injector DI library. Table of Contents
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written in C# and can easily be applied to any language. About the Author Vladimir Khorikov is an author, blogger, and Microsoft MVP. He has mentored numerous teams on the ins and outs of unit testing.

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