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- LibraryThing. after reading this book, I'm convinced unit testing is essential in all but the most trivial code projects.

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Building a Pragmatic Unit Test Suite | Pluralsight  
<http://www.cppcon.org> — Presentation Slides, PDFs, Source Code and other presenter materials are available at:

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CppCon 2014: Matt Hargett "Pragmatic Unit Testing in C++

...

Matt co-authored Pragmatic Unit Testing in C#, and has spoken at conferences around the world on network security, reverse engineering, unit testing, and static analysis.

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Matt co-authored Pragmatic Unit Testing in C#, and has spoken at conferences around the world on network security, reverse engineering, unit testing, and static analysis. His hobbies include world travel, playing video games, and writing/publishing indie pop songs under the moniker "the making of the making of".

Advanced Unit Testing in C & C++ | CppCon 2015 | Channel 9  
Pragmatic Unit Testing in C# with Nunit. By Andy Hunt, Dave Thomas. Publisher: Pragmatic Bookshelf. Release Date: April 2004. Pages: 176. Read on O'Reilly Online Learning with a 10-day trial Start your free trial now Buy on Amazon

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Pragmatic Unit Testing in C# with Nunit - O'Reilly Media Books similar to Pragmatic Unit Testing in C# with NUnit Pragmatic Unit Testing in C# with NUnit. by Andy Hunt. 3.65 avg. rating · 109 Ratings. The NIST estimates that poor testing costs the US economy \$60 billion annually. This book gives teams straightforward and proven ways to introduce unit testing into their process, resulting in higher ...

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Pragmatic Unit Testing in Java 8 with JUnit by Jeff Langr ...

Basic of unit testing — Before JUnit 4 you had to give names to your test classes with suffix Test e.g. ExampleTest.class and any method you write should prefix test e.g.

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testAddition()

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 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 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

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through all the important unit testing topics. If you've never written a unit test, 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 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 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. Memorable mnemonics to help you remember what's

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

Another day without Test-Driven Development means 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. 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 modern programming practice C developers need to know. It's a different way to

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program---unit tests are written in a tight feedback loop with the 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 early warning of design problems. You get immediate notification of side effect defects. You get to spend more time adding valuable features to your 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 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 just see the end product, you see code and tests evolve. James leads you through the thought process and



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decisions made each step of the way. You'll learn 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 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 for C++ (some project conversion may be needed).

Presents a guide to unit testing with the NUnit library in C# along with providing information on writing code, detecting and fixing problems, testing pieces of code, and testing with a team.

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Learn how to improve your C# coding skills using unit testing. Despite its 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 NUnit framework. It's easy to learn how to think of all the things in your code that are

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likely to break. We'll show you how with helpful mnemonics, summarized in a handy tip sheet (also available from our [www.pragmaticprogrammer.com](http://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 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. 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

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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.

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 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 start-to-finish strategies for working more effectively with large, untested legacy code bases. This book draws on material Michael

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created for his renowned Object Mentor seminars: techniques Michael has used in 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, 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 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 structure This book also includes a catalog of twenty-four dependency-breaking

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techniques that help you work with program elements in isolation and make safer changes.

Radically improve your testing practice and software quality with new testing styles, good patterns, and reliable automation. Key Features A practical and results-driven approach to unit testing Refine your existing unit tests by implementing modern best practices Learn the four pillars of a good unit test Safely automate your testing process to save time and money Spot which tests need refactoring, and which need to be deleted entirely Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About The Book Great testing practices maximize your project quality and delivery speed

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by identifying bad code early in the development process. Wrong tests will break your code, multiply bugs, and increase time and costs. You owe it to yourself—and your projects—to learn how to do excellent unit testing. Unit Testing Principles, Patterns and Practices teaches you to design and write tests that target key areas of your code including the domain model. In this clearly written guide, you learn to develop professional-quality tests and test suites and integrate testing throughout the application life cycle. As you adopt a testing mindset, you ' ll be amazed at how better tests cause you to write better code. What You Will Learn Universal guidelines to assess any unit test Testing to identify and avoid anti-patterns Refactoring tests along with the production code Using integration tests to

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verify the whole system This Book Is Written For For readers who know the basics of unit testing. Examples are 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. Table of Contents: PART 1 THE BIGGER PICTURE 1 | The goal of unit testing 2 | What is a unit test? 3 | The anatomy of a unit test PART 2 MAKING YOUR TESTS WORK FOR YOU 4 | The four pillars of a good unit test 5 | Mocks and test fragility 6 | Styles of unit testing 7 | Refactoring toward valuable unit tests PART 3 INTEGRATION TESTING 8 | Why integration testing? 9 | Mocking best practices 10 | Testing the database PART 4 UNIT TESTING ANTI-PATTERNS 11 | Unit testing anti-patterns



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What others in the trenches say about The Pragmatic Programmer... “ The cool thing about this book is that it ’ s great for keeping the programming process fresh. The book helps you to continue to grow and clearly comes from people who have been there. ” —Kent Beck, author of Extreme Programming Explained: Embrace Change “ I found this book to be a great mix of solid advice and wonderful analogies! ” —Martin Fowler, author of Refactoring and UML Distilled “ I would buy a copy, read it twice, then tell all my colleagues to run out and grab a copy. This is a book I would never loan because I would worry about it being lost. ” —Kevin Ruland, Management Science, MSG-Logistics “ The wisdom and practical experience of the

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authors is obvious. The topics presented are relevant and useful.... By far its greatest strength for me has been the outstanding analogies—tracer bullets, broken windows, and the fabulous helicopter-based explanation of the need for orthogonality, especially in a crisis situation. I have little doubt that this book will eventually become an excellent source of useful information for journeymen programmers and expert mentors alike. ” —John Lakos, author of Large-Scale C++ Software Design “ This is the sort of book I will buy a dozen copies of when it comes out so I can give it to my clients. ” —Eric Vought, Software Engineer “ Most modern books on software development fail to cover the basics of what makes a great software developer, instead spending their time on syntax or technology where in reality

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the greatest leverage possible for any software team is in having talented developers who really know their craft well. An excellent book. ” —Pete McBreen, Independent Consultant “ Since reading this book, I have implemented many of the practical suggestions and tips it contains. Across the board, they have saved my company time and money while helping me get my job done quicker! This should be a desktop reference for everyone who works with code for a living. ” —Jared Richardson, Senior Software Developer, iRenaissance, Inc. “ I would like to see this issued to every new employee at my company.... ” —Chris Cleeland, Senior Software Engineer, Object Computing, Inc. “ If I ’ m putting together a project, it ’ s the authors of this book that I want. . . . And failing that I ’ d settle for people

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who 've read their book. ” —Ward Cunningham Straight from the programming trenches, The Pragmatic Programmer cuts through the increasing specialization and technicalities of modern software development to examine the core process--taking a requirement and producing working, maintainable code that delights its users. It covers topics ranging from personal responsibility and career development to architectural techniques for keeping your code flexible and easy to adapt and reuse. Read this book, and you'll learn how to Fight software rot; Avoid the trap of duplicating knowledge; Write flexible, dynamic, and adaptable code; Avoid programming by coincidence; Bullet-proof your code with contracts, assertions, and exceptions; Capture real requirements; Test ruthlessly and effectively;

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Delight your users; Build teams of pragmatic programmers; and Make your developments more precise with automation. Written as a series of self-contained sections and filled with entertaining anecdotes, thoughtful examples, and interesting analogies, The Pragmatic Programmer illustrates the best practices and major pitfalls of many different aspects of software development. Whether you're a new coder, an experienced programmer, or a manager responsible for software projects, use these lessons daily, and you'll quickly see improvements in personal productivity, accuracy, and job satisfaction. You'll learn skills and develop habits and attitudes that form the foundation for long-term success in your career. You'll become a Pragmatic Programmer.

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Learn how to improve your C# coding skills using unit testing. Despite its 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 NUnit framework. It's easy to

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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](http://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 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. But the best part is that you don't need a sweeping mandate to

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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.

If you program in C++ you've been neglected. Test-driven development (TDD) is a modern software development practice that can dramatically reduce the number of defects in systems, produce more maintainable code, and give you the confidence to change your software to meet changing needs. But C++ programmers have been ignored by those promoting TDD--until now. In this book, Jeff Langr gives you hands-on lessons in the challenges and rewards of doing



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TDD in C++. Modern C++ Programming With Test-Driven Development, the only comprehensive treatment on TDD in C++ provides you with everything you need to know about TDD, and the challenges and benefits of implementing it in your C++ systems. Its many detailed code examples take you step-by-step from TDD basics to advanced concepts. As a veteran C++ programmer, you're already writing high-quality code, and you work hard to maintain code quality. It doesn't have to be that hard. In this book, you'll learn: how to use TDD to improve legacy C++ systems how to identify and deal with troublesome system dependencies how to do dependency injection, which is particularly tricky in C++ how to use testing tools for C++ that aid TDD new C++11 features that facilitate TDD As you grow in TDD mastery,

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you'll discover how to keep a massive C++ system from becoming a design mess over time, as well as particular C++ trouble spots to avoid. You'll find out how to prevent your tests from being a maintenance burden and how to think in TDD without giving up your hard-won C++ skills. Finally, you'll see how to grow and sustain TDD in your team.

Whether you're a complete unit-testing novice or an experienced tester, this book will lead you to mastery of test-driven development in C++. What You Need A C++ compiler running under Windows or Linux, 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 are written for

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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.

Examples provided were built using cmake version 2.8.9.

Various freely-available third-party libraries are used as the basis for examples in the book. These include: cURL JsonCpp Boost (filesystem, date\_time/gregorian, algorithm, assign) Several examples use the boost headers/libraries. Only one example uses cURL and JsonCpp.

Looks at the principles and clean code, includes case studies showcasing the practices of writing clean code, and contains a list of heuristics and "smells" accumulated from the

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process of writing clean code.

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