

Agile Java™

Crafting Code
with Test-Driven
Development

```
private Object monitor = new Object();

public void testClock() throws Exception {
    final int seconds = 2;
    final List<Date> ticks = new ArrayList();
    ClockListener listener = new ClockListener() {
        private int count = 0;
        public void update(Date date) {
            ticks.add(date);
            if (++count == seconds) {
                synchronized(monitor) {
                    monitor.notifyAll();
                }
            }
        }
    };
    clock = new Clock(listener);
    synchronized(monitor) {
        monitor.wait();
    }
    clock.stop();
    verify(ticks, seconds);
}
```

Agile Java Crafting Code With Test Driven Development

Robert C Martin

Langr



Agile Java Crafting Code With Test Driven Development Robert C Martin:

Agile Java? Jeff Langr, 2005-02-14 Master Java 5 0 and TDD Together Build More Robust Professional Software Master Java 5 0 object oriented design and Test Driven Development TDD by learning them together Agile Java weaves all three into a single coherent approach to building professional robust software systems Jeff Langr shows exactly how Java and TDD integrate throughout the entire development lifecycle helping you leverage today's fastest most efficient development techniques from the very outset Langr writes for every programmer even those with little or no experience with Java object oriented development or agile methods He shows how to translate oral requirements into practical tests and then how to use those tests to create reliable high performance Java code that solves real problems Agile Java doesn't just teach the core features of the Java language it presents coded test examples for each of them This TDD centered approach doesn't just lead to better code it provides powerful feedback that will help you learn Java far more rapidly The use of TDD as a learning mechanism is a landmark departure from conventional teaching techniques Presents an expert overview of TDD and agile programming techniques from the Java developer's perspective Brings together practical best practices for Java TDD and OO design Walks through setting up Java 5 0 and writing your first program Covers all the basics including strings packages and more Simplifies object oriented concepts including classes interfaces polymorphism and inheritance Contains detailed chapters on exceptions and logging math I O reflection multithreading and Swing Offers seamlessly integrated explanations of Java 5 0's key innovations from generics to annotations Shows how TDD impacts system design and vice versa Complements any agile or traditional methodology including Extreme Programming XP **Agile Java?** Langr, 2005

Précieuse collection de médailles grecques autonomes et des colonies romaines, formée par un amateur Russe et vendue pour compte des héritiers, 1889 **Modern C++ Programming with Test-Driven Development** Jeff Langr, 2013-10-10 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 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 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 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

Managing Agile Projects Sanjiv Augustine, 2005 Your Hands On In the Trenches Guide to Successfully Leading Agile Projects Agile methods promise to infuse development with unprecedented flexibility speed and value and these promises are attracting IT organizations worldwide However agile methods often fail to clearly define the manager s role and many managers have been reluctant to buy in Now expert project manager Sanjiv Augustine introduces agility from the manager s point of view offering a proven management framework that addresses everything from team building to project control Augustine bridges the disconnect between the assumptions and techniques of traditional and agile management demonstrating why agility is better aligned with today s project realities and how to simplify your transition Using a detailed case study he shows how agile methods can scale to succeed in even the largest projects Defining a high value role for the manager in agile project environments Refocusing on outcomes not rigid plans processes or controls Structuring and building adaptive self organizing organic teams Forming a guiding vision that aligns your team behind a common purpose Empowering your team with the information it needs to succeed Managing the flow of customer value from one creative stage to the next Leveraging your team members strengths as whole persons Implementing full life cycle agility from planning and coding to maintenance and knowledge transfer Customizing agile methods to your unique environment Becoming an adaptive leader who can inspire and energize agile teams Whether you re a technical or business manager Managing Agile Projects gives you all the tools you need to implement agility in your environment and reap its full benefits Managing Agile Projects is part of the Robert C Martin series c Copyright Pearson Education All rights reserved *Test Driven Development in Ruby* Bala Paranj, 2017-03-15 Learn the basics of test driven development TDD using Ruby You will carry out problem domain analysis solution domain analysis designing test cases and writing tests first These fundamental concepts will give you a solid TDD foundation to build upon Test Driven Development in Ruby is written by a developer for developers The concepts are first explained then a coding demo illustrates how to apply the theory in practice At the end of each chapter an exercise is given

to reinforce the material Complete with working files and code samples you ll be able to work alongside the author a trainer by following the material in this book What You Will Learn Carry out problem domain analysis solution domain analysis designing test cases and writing tests first Use assertions Discover the structure of a test and the TDD cycle Gain an understanding of minimal implementation starter test story test and next test Handle refactoring using Ruby Hide implementation details Test precisely and concretely Make your code robust Who This Book Is For Experienced Ruby programmers or web developers with some prior experience with Ruby

Analysis and Quantification of Test Driven Development Approach ,2002 Software industry is increasingly becoming more demanding on development schedules and resources Often software production deals with ever changing requirements and with development cycles measured in weeks or months To respond to these demands and still produce high quality software over years software practitioners have developed a number of strategies One of the more recent one is Test Driven Development TDD This is an emerging object oriented development practice that purports to aid in producing high quality software quickly TDD has been popularized through the Extreme Programming XP methodology TDD proponents profess that for small to mid size software the technique leads to quicker development of higher quality code Anecdotal evidence supports this However until now there has been little quantitative empirical support for this TDD claim The work presented in this thesis is concerned with a set of structured TDD experiments on very small programs with pair programmers Programmers were both students and professionals In each programmer category students and professionals one group used TDD and the other control group a waterfall like software development approach The experiments provide some interesting observations regarding TDD When TDD was used both student and professional TDD developers appear to achieve higher code quality as measured using functional black box testing The TDD student pairs passed 16% more test cases while TDD professional pair passed 18% more test cases than the their corresponding control groups However professional TDD developer pairs did spent about 16% more time on development It was not established whether the increase in the quality was due to extra development time or due to the TDD development process itself On the other hand the student experiments were time limited Both the TDD and the non TDD student programmers had to complete the assignment in 75 minutes Professional programmers took ab

Instant RSpec Test-driven Development How-to Charles Feduke,2013 Filled with practical step by step instructions and clear explanations for the most important and useful tasks A concise guide that delivers immediate results with practical recipes on learning practical hints This book is aimed at Ruby developers with beginner level expertise who want to use RSpec and test driven development methodology to improve the code they write Experienced programmers new to Ruby will also benefit from this book which also covers creating testable idiomatic Ruby code

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