

Robert C. Martin Series



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);
}
```

Foreword by Ron Jeffries

Jeff Langr

Agile Java™ Crafting Code With Test Driven Development

KJ Lindholm-Leary



Agile Java™ Crafting Code With Test Driven Development:

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 **Clean Code** Robert C.

Martin, 2009 This title shows the process of cleaning code Rather than just illustrating the end result or just the starting and ending state the author shows how several dozen seemingly small code changes can positively impact the performance and maintainability of an application code base [The Robert C. Martin Clean Code Collection \(Collection\)](#) Robert C. Martin, 2011-11-10 The Robert C Martin Clean Code Collection consists of two bestselling eBooks Clean Code A Handbook of Agile Software Craftsmanship The Clean Coder A Code of Conduct for Professional Programmers In Clean Code legendary software expert Robert C Martin has teamed up with his colleagues from Object Mentor to distill their best agile practice of cleaning code on the fly into a book that will instill within you the values of a software craftsman and make you a better programmer but only if you work at it You will be challenged to think about what's right about that code and what's wrong with it More important you will be challenged to reassess your professional values and your commitment to your craft In The Clean Coder Martin introduces the disciplines techniques tools and practices of true software craftsmanship This book is packed with practical advice about everything from estimating and coding to refactoring and testing It covers much more than technique It is about attitude Martin shows how to approach software development with honor self respect and pride work well and work clean communicate and estimate faithfully face difficult decisions with clarity and honesty and

understand that deep knowledge comes with a responsibility to act Readers of this collection will come away understanding How to tell the difference between good and bad code How to write good code and how to transform bad code into good code How to create good names good functions good objects and good classes How to format code for maximum readability How to implement complete error handling without obscuring code logic How to unit test and practice test driven development What it means to behave as a true software craftsman How to deal with conflict tight schedules and unreasonable managers How to get into the flow of coding and get past writer s block How to handle unrelenting pressure and avoid burnout How to combine enduring attitudes with new development paradigms How to manage your time and avoid blind alleys marshes bogs and swamps How to foster environments where programmers and teams can thrive When to say No and how to say it When to say Yes and what yes really means *Test-Driven Development* Lech Madeyski,2009-12-05 Agile methods are gaining more and more interest both in industry and in research Many industries are transforming their way of working from traditional waterfall projects with long duration to more incremental iterative and agile practices At the same time the need to evaluate and to obtain evidence for different processes methods and tools has been emphasized Lech Madeyski offers the first in depth evaluation of agile methods He presents in detail the results of three different experiments including concrete examples of how to conduct statistical analysis with meta analysis or the SPSS package using as evaluation indicators the number of acceptance tests passed overall and per hour and design complexity metrics The book is appropriate for graduate students researchers and advanced professionals in software engineering It proves the real benefits of agile software development provides readers with in depth insights into experimental methods in the context of agile development and discusses various validity threats in empirical studies *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 **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 **Test-driven Development with Oracles and Formal Specifications** Shadi G. Alawneh,2010 *Test First Model-Driven Development* Bartlett A. Shappee,2012 Abstract Test Driven Development TDD Model Driven Development MDD and Test Case Generation with their associated practices and tools each in their own right promise to deliver robust higher quality code more economically then other approaches These process are not mutually exclusive but are not typically used together This thesis develops a combined approach using complimentary aspects of each of the above three process Test cases are described generated and then injected back into the model which is then used to produce the test and production code We have enhanced a model driven tool to support the approach adding a test case generator capable of understanding augmented MDD software model and utilizing the constraints captured in our test centric language to generate model level test cases back into the model Our results show that with a reduction in overall effort one can produce a tested model based system in which its test and implementation for multiple platforms such as C and Java using one of multiple test xUnit frameworks

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