

Modern C++ Programming with Test-Driven Development

Code Better,
Sleep Better



SciOne Jeff Langr
Author of Modern C++

Modern C Programming With Test Driven Development Code Better Sleep Better

Daniela Niemeyer



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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

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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 tool. 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.

Test-Driven Development with Java Alan Mellor, 2023-01-13

Drive development with automated tests and gain the confidence you need to write high quality software.

Key Features: Get up and running with common design patterns and TDD best practices. Learn to apply the rhythms of TDD: arrange, act, assert, and red, green, refactor. Understand the challenges of implementing TDD in the Java ecosystem and build a plan.

Book Description: Test driven development enables developers to craft well designed code and prevent defects. It's a simple yet powerful tool that helps you focus on your code design while automatically checking that your code works correctly. Mastering TDD will enable you to effectively utilize design patterns and become a proficient software architect. The book begins by explaining the basics of good code and bad code, bursting common myths and why Test driven development is crucial. You'll then gradually move toward building a sample application using TDD where you'll apply the two key rhythms: red, green, refactor, and arrange, act, assert. Next you'll learn how to bring external systems such as databases under control by using dependency inversion and test doubles. As you advance you'll delve into advanced design techniques such as SOLID patterns, refactoring, and hexagonal architecture. You'll also balance your use of fast, repeatable unit tests against integration tests using the test pyramid as a guide. The concluding chapters will show you how to implement TDD in real world use cases and scenarios and develop a modern REST microservice backed by a Postgres database in Java 17. By the end of this book you'll be thinking differently about how you design code for simplicity and how correctness can be baked in as you go.

What you will learn: Discover how to write effective test cases in Java. Explore how TDD can be incorporated into crafting software. Find out how to write reusable

and robust code in Java Uncover common myths about TDD and understand its effectiveness Understand the accurate rhythm of implementing TDD Get to grips with the process of refactoring and see how it affects the TDD process Who this book is for This book is for expert Java developers and software architects crafting high quality software in Java Test Driven Development with Java can be picked up by anyone with a strong working experience in Java who is planning to use Test driven development for their upcoming projects

C++ Brain Teasers Anders Schau Knatten,2024-05-30 C is famous for getting all the default behaviors wrong and for sometimes making demons fly out of your nose Through 25 puzzles from the useful to the outright weird we explore some of C s most interesting quirks How does initialization actually work Do temporaries even exist Why is a valid expression in C As you work through each puzzle you will peel off some of the layers of complexity of C getting a fundamental understanding of how the language works This will help you write better code and recognize issues more easily while debugging Each puzzle in the book is a complete seemingly simple C program but can you figure out the output for each or will the answers stump you Most of the programs compile and have deterministic though sometimes surprising output Some might however have undefined behavior where anything can happen including making demons fly out of your nose Yet others might have unspecified behavior with output that is not completely deterministic we just know nothing as bad as nasal demons will happen All puzzles are accompanied by detailed discussions taking a look under the hood at what exactly is going on to help you understand more about C s unexpected behaviors as well as fundamental concepts like initialization overload resolution and implicit conversions For the non deterministic cases we ll explore some typical behaviors one can expect to see in practice what causes them and why they shouldn t be relied on After working through the book you ll have tools and techniques to help you write better and safer code and a better understanding of the fundamentals of the language the background for some of C s apparent weirdness and a better feel for identifying bugs and unsafe code in your own programs

What You Need The book assumes basic knowledge of C If you want to run the programs yourself you can use either a local C compiler or the online compilers at <https://godbolt.org>

Test Driven Development for Embedded C James W. Grenning,2011-04-25 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 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 15 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 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 development environment on your machine and the GNU GCC tool chain or Microsoft Visual Studio for C some project conversion may be needed

Clean C++ Stephan Roth, 2017-09-27 Write maintainable extensible and durable software with modern C This book is a must for every developer software architect or team leader who is interested in good C code and thus also wants to save development costs If you want to teach yourself about writing clean C Clean C is exactly what you need It is written to help C developers of all skill levels and shows by example how to write understandable flexible maintainable and efficient C code Even if you are a seasoned C developer there are nuggets and data points in this book that you will find useful in your work If you don t take care with your code you can produce a large messy and unmaintainable beast in any programming language However C projects in particular are prone to be messy and tend to slip into bad habits Lots of C code that is written today looks as if it was written in the 1980s It seems that C developers have been forgotten by those who preach Software Craftsmanship and Clean Code principles The Web is full of bad but apparently very fast and highly optimized C code examples with cruel syntax that completely ignores elementary principles of good design and well written code This book will explain how to avoid this scenario and how to get the most out of your C code You ll find your coding becomes more efficient and importantly more fun What You ll Learn Gain sound principles and rules for clean coding in C Carry out test driven development TDD Discover C design patterns and idioms Apply these design patterns Who This Book Is For Any C developer and software engineer with an interest in producing better code

Mechatronics 2019: Recent Advances Towards Industry 4.0 Roman Szewczyk, Jiří Krejsa, Michał Nowicki, Anna Ostaszewska-Lizewska, 2019-08-28 This book gathers papers presented at Mechatronics 2019 an international conference held in Warsaw Poland from September 16 to 18 2019 The contributions discuss the numerous multidisciplinary technological advances in the field of applied mechatronics that the emerging Industry 4 0 has already yielded Each chapter presents a particular example of interdisciplinary theoretical knowledge numerical modelling and simulation or the application of artificial intelligence techniques Further the papers show how both software and physical devices can be incorporated into mechatronic systems to increase production efficiency and resource savings The results and guidelines presented here will benefit both scientists and engineers looking for solutions to specific industrial and research problems

Test-driven Development for Embedded C James W. Grenning, 2011 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 longuseful life This is the first book to teach the hows and whys of TDD for C programmers

Test-Driven Development with C++

ABDUL WAHID. TANNER,2022-11-18 Learn how to write a simple testing framework and extend it to drive the design of your logging library Key Features Learn how to solve various challenges when testing in C with the help of effective solutions Develop a logging library with enhancements Drive better code designs with effective tests Book Description Modern standard C is all that is needed to create a small and practical testing framework that will improve the design of any project This allows you to think about how the code will be used which is the first step in designing intuitive interfaces TDD is a modern balanced software development approach that helps to create maintainable applications provide modularity in design and write minimal code that drastically reduces defects With the help of this book you ll be able to continue adding value when designs need to change by ensuring that the changes don t break existing tests In this book developers working with test driven development TDD will be able to put their knowledge to work by writing a simple testing framework and then using it to drive the design of a logging library The book will help you enhance your software development skills with test cases You ll understand how to design and implement test cases The chapters will also show you how to utilize the TDD approach to be more productive in software development than attempting to code in large unstructured steps By the end of this book you ll have gained knowledge of TDD and testing and also built a working logging library What You Will Learn Understand how to develop software using TDD Keep the code for the system as error free as possible Refactor and redesign code confidently Communicate the requirements and behaviors of the code with your team Understand the differences between unit tests and integration tests Use TDD to create a minimal viable testing framework Who this book is for This book is for C developers already familiar with and using C for daily tasks who want to improve their skillset You don t need to be an expert but you should already have some knowledge of modern C and how to use templates to get the most out of this book

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