

# Unlock the Power of Modern Programming with Test Driven Development



## Modern C++ Programming with Test-Driven

## Development: Code Better, Sleep Better by Jeff Langr

★★★★☆ 4.4 out of 5

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Screen Reader : Supported  
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In today's fast-paced software development landscape, it's more important than ever to deliver high-quality code quickly and efficiently. Test driven development (TDD) is a powerful technique that can help you achieve these goals by writing tests before you write code. This approach can streamline your development process, improve code quality, and boost your confidence as a developer.

## What is Test Driven Development (TDD)?

TDD is a software development process that follows the "test-first" principle. This means that you write a test for a piece of code before you actually write the code itself. The test defines the expected behavior of the code, and it serves as a way to verify that the code is working correctly.

TDD is often used in conjunction with agile development methodologies, such as Scrum and Kanban. These methodologies emphasize iterative development and continuous testing, which makes them a natural fit for TDD.

## **Benefits of Test Driven Development**

There are many benefits to using TDD, including:

- **Improved code quality:** TDD helps you to write more robust and reliable code. By writing tests before you write code, you can identify potential problems early on, and you can avoid introducing bugs into your code.
- **Faster development:** TDD can actually help you to develop code faster. By writing tests before you write code, you can avoid wasting time on code that doesn't work. You can also use tests to automate repetitive tasks, which can free up your time to focus on more important things.
- **Increased confidence:** TDD can help you to become a more confident developer. By writing tests before you write code, you can verify that your code is working correctly, which can give you peace of mind. You can also use tests to experiment with different approaches to solving problems, which can help you to learn and grow as a developer.

## **How to Get Started with Test Driven Development**

If you're interested in getting started with TDD, there are a few things you need to do:

1. **Choose a testing framework.** There are many different testing frameworks available, so you'll need to choose one that is compatible with your programming language and development environment.
2. **Learn the basics of TDD.** There are many resources available online and in libraries that can teach you the basics of TDD.
3. **Start small.** Don't try to implement TDD on a large project right away. Start with a small project or a single feature, and gradually add TDD to your workflow as you become more comfortable with it.

TDD is a powerful technique that can help you to write better code faster. If you're not already using TDD, I encourage you to give it a try. You may be surprised at how much it can improve your development process.

To learn more about TDD, I recommend the following resources:

- [Test Driven Development: By Example](#) by Kent Beck
- [Test Driven Development \(TDD\) Explained](#) by ThoughtWorks
- [Test Driven Development \(TDD\) Tutorial](#) by the Agile Alliance

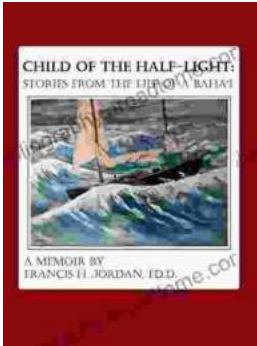


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