

Discover a Better Approach to Building, Testing, and Packaging Your Software



Modern CMake for C++: Discover a better approach to building, testing, and packaging your software

by Rafał Świdziński

★★★★☆ 4.7 out of 5

Language : English

File size : 12781 KB

Text-to-Speech : Enabled

Screen Reader : Supported

Enhanced typesetting : Enabled

Print length : 460 pages



Are you struggling to build, test, and package your software effectively? Do you find yourself spending too much time on these tasks, and not enough time on actually developing your software? If so, then this book is for you.

This book provides a comprehensive guide to best practices for building, testing, and packaging software. It covers everything from requirements gathering to deployment, and it includes practical advice and real-world examples.

Whether you're a seasoned software engineer or just starting out, this book will help you to improve your software development process and deliver higher-quality software faster.

Table of Contents

- Chapter 1: Requirements Gathering
- Chapter 2: Software Design
- Chapter 3: Software Development
- Chapter 4: Software Testing
- Chapter 5: Software Packaging
- Chapter 6: Software Deployment

Chapter 1: Requirements Gathering

The first step in any software development project is to gather requirements. This involves understanding the needs of the stakeholders, and translating those needs into a set of functional and non-functional requirements.

This chapter covers the following topics:

- Identifying stakeholders
- Eliciting requirements
- Documenting requirements
- Validating requirements

Chapter 2: Software Design

Once you have a set of requirements, you need to design your software. This involves creating a high-level architecture, and then decomposing the architecture into smaller, more manageable components.

This chapter covers the following topics:

- Software architecture
- Component design
- Interface design
- Data design

Chapter 3: Software Development

Once you have a design, you can start developing your software. This involves writing code, and then testing and debugging the code.

This chapter covers the following topics:

- Coding standards
- Testing and debugging
- Refactoring
- Continuous integration

Chapter 4: Software Testing

Once you have developed your software, you need to test it to ensure that it meets the requirements. This involves creating test cases, and then executing the test cases to verify that the software behaves as expected.

This chapter covers the following topics:

- Test case design

- Test execution
- Test reporting
- Test automation

Chapter 5: Software Packaging

Once you have tested your software, you need to package it so that it can be deployed to production. This involves creating a software installer, and then distributing the installer to the end users.

This chapter covers the following topics:

- Software installers
- Software distribution
- Software versioning
- Software licensing

Chapter 6: Software Deployment

Once you have packaged your software, you need to deploy it to production. This involves installing the software on the production servers, and then configuring the software to work with the production environment.

This chapter covers the following topics:

- Software installation
- Software configuration
- Software monitoring

- Software maintenance

This book has provided you with a comprehensive guide to best practices for building, testing, and packaging software. By following the advice in this book, you can improve your software development process and deliver higher-quality software faster.

Thank you for reading!

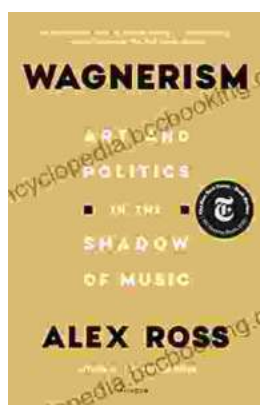


Modern CMake for C++: Discover a better approach to building, testing, and packaging your software

by Rafał Świdziński

★★★★☆ 4.7 out of 5

Language : English
File size : 12781 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 460 pages



Art and Politics in the Shadow of Music

Music has long been a powerful force in human society, capable of inspiring, uniting, and motivating people across cultures and generations....



How Algorithms Are Rewriting The Rules Of Work

The workplace is changing rapidly as algorithms become increasingly prevalent. These powerful tools are automating tasks, making decisions, and even...