

D Cookbook

Adam D. Ruppe



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Discover the advantages of programming in D with over 100 incredibly effective recipes

About This Book

- Leverage D to write efficient and correct programs with minimum code
- Learn advanced code generation techniques to automate programming tasks
- See how to apply D idioms to real-world problems and understand how it can benefit you

Who This Book Is For

If you are an experienced programmer who is looking to explore a language that offers plenty of advantages over more established programming languages, this is the book for you. We assume that you are already familiar with general programming language basics, but you do not need to be a proficient user of D.

What You Will Learn

- Use the D programming language from "Hello World" to bare metal code
- Gain an insight into avoiding the garbage collector and understand its pros and cons in real-world code examples
- Discover how to use D's abstraction abilities to make the most of its efficient and easy resource management capabilities
- Implement and use ranges, a D idiom for lazy sequence implementation with decoupled generic algorithms
- Explore a variety of third-party libraries available to get your work done faster
- Integrate D into existing C, C++, and other environments
- Prove program correctness with static analysis and test-driven development

In Detail

D is a modern programming language that uses the familiar C family syntax while offering advanced modeling capabilities, safety guarantees, programmer productivity, and high efficiency. It helps you to get the most out of your hardware and your programmers simultaneously, saving both development and deployment costs.

This practical guide will walk you through getting the work done with D, from writing your first program to writing advanced autogenerated objects, with notes based on real-world experiences telling you about potential pitfalls and how to avoid them. You'll use some of the third-party libraries available for D to get code working fast, including access to database engines, image processing, and more.



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