JavaScript Concurrency

Adam Boduch

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About This Book

- Apply the core principles of concurrency to both browser and server side development
- Explore the latest tools and techniques at the forefront of concurrent programming, including JavaScript promises, web workers, and generators
- Learn how concurrent and parallel programming can help you tackle the challenges of fast, data heavy web development

Who This Book Is For

This book is written for any JavaScript developer who wants to learn how to write more efficient, powerful, and maintainable applications that utilize the latest developments in JavaScript.

What You Will Learn

- Understand exactly how JavaScript works in a web browser environment and how these mechanisms power our event-driven JavaScript code
- Use promises to turn complex synchronization scenarios into readable and maintainable code
- Compute values lazily and avoid unnecessary memory allocations using generators
- Write concurrent code that doesn't feel like concurrent code by abstracting away boilerplate chores
- Leverage true hardware parallelism with web workers to get better performance
- Get to grips with the NodeJS model of concurrency and learn why it's good for I/O-intensive web applications

In Detail

JavaScript has evolved to adopt concurrent capabilities—one of the reasons why it is still at the forefront of modern web development. This book helps you dive into concurrent JavaScript and demonstrates how to apply its core principles, key techniques, and tools to a range of complex development challenges. Built around the three core principles of concurrency—parallelism, synchronization, and conservation—you will learn everything you need to unlock a more efficient and dynamic JavaScript in order to lay the foundations of even better user experiences.

Throughout the book you will learn how to put these principles into action by using a range of development approaches. Covering everything from JavaScript promises, web workers, and generators to functional programming techniques, everything you learn will have a real impact on the performance of your applications. You will also learn how to move between the client and server for a frictionless and fully realized approach to development. With further guidance on concurrent programming with NodeJS, JavaScript Concurrency is committed to making you a better web developer.

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This JavaScript Concurrency usually are reliable for you who want to become a successful person, why. The key reason why of this JavaScript Concurrency can be one of many great books you must have is actually giving you more than just simple looking at food but feed you with information that possibly will shock your prior knowledge. This book is actually handy, you can bring it everywhere you go and whenever your conditions throughout the e-book and printed kinds. Beside that this JavaScript Concurrency forcing you to have an enormous of experience including rich vocabulary, giving you test of critical thinking that we realize it useful in your day exercise. So , let's have it and revel in reading.

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Nora Emerson:

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