



Functional Reactive Programming

By Stephen Blackheath, Anthony Jones

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Summary

Functional Reactive Programming teaches the concepts and applications of FRP. It offers a careful walk-through of core FRP operations and introduces the concepts and techniques you'll need to use FRP in any language.

Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

About the Technology

Today's software is shifting to more asynchronous, event-based solutions. For decades, the Observer pattern has been the go-to event infrastructure, but it is known to be bug-prone. Functional reactive programming (FRP) replaces Observer, radically improving the quality of event-based code.

About the Book

Functional Reactive Programming teaches you how FRP works and how to use it. You'll begin by gaining an understanding of what FRP is and why it's so powerful. Then, you'll work through greenfield and legacy code as you learn to apply FRP to practical use cases. You'll find examples in this book from many application domains using both Java and JavaScript. When you're finished, you'll be able to use the FRP approach in the systems you build and spend less time fixing problems.

What's Inside

- Think differently about data and events
- FRP techniques for Java and JavaScript
- Eliminate Observer one listener at a time
- Explore Sodium, RxJS, and Kefir.js FRP systems

About the Reader

Readers need intermediate Java or JavaScript skills. No experience with

functional programming or FRP required.

About the Authors

Stephen Blackheath and **Anthony Jones** are experienced software developers and the creators of the Sodium FRP library for multiple languages. Foreword by **Heinrich Apfelmus**. Illustrated by **Duncan Hill**.

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Editorial Review

About the Author

Stephen Blackheath is a professional developer and FRP advocate. He's the primary author of the Sodium FRP library for Java.

Anthony Jones writes code for a living and has spent half a decade refactoring a Java based configuration GUI to a FRP based framework. He is a contributor to the Sodium project.

Users Review

From reader reviews:

Joshua Canfield:

The event that you get from Functional Reactive Programming is a more deep you excavating the information that hide in the words the more you get thinking about reading it. It doesn't mean that this book is hard to understand but Functional Reactive Programming giving you thrill feeling of reading. The author conveys their point in certain way that can be understood by anyone who read the item because the author of this reserve is well-known enough. This kind of book also makes your vocabulary increase well. Therefore it is easy to understand then can go together with you, both in printed or e-book style are available. We advise you for having this Functional Reactive Programming instantly.

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