



Clojure Reactive Programming - How to Develop Concurrent and Asynchronous Applications with Clojure

Leonardo Borges

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Key Features

- Learn how to leverage the features of functional reactive programming using Clojure
- Create dataflow-based systems that are the building blocks of reactive programming
- Learn different Functional Reactive Programming frameworks and techniques by implementing real-world examples

Book Description

Reactive Programming (RP) is central to many concurrent systems. It endeavors to make the process of developing highly-concurrent, event-driven, and asynchronous applications simpler and less error-prone. RP comes in many flavors and we will look at some of them in this book.

Clojure Reactive Programming is a practical guide aimed at exploring RP. It starts by describing Functional Reactive Programming (FRP) and its formulations, as well as how it inspired Compositional Event Systems (CES).

It also presents several examples of Reactive applications implemented in different frameworks, allowing you to develop an understanding of the subject as well as learn how to develop your ability to work with time-varying values. By the end of the book, you will be equipped to solve real-world problems and have a clear understanding of when and how you should use different the approaches that are shown in the book.

What you will learn

- Understand the key abstractions of Functional Reactive Programming (FRP) and Compositional Event Systems (CES)
- Discover how to think in terms of time-varying values and event streams
- Create, compose, and transform Observable sequences with Reactive Extensions
- Create a CES framework from scratch using `core.async` as its foundation
- Build a simple ClojureScript game using Reagent
- Integrate Om and RxJS in a web application
- Implement a reactive API to Amazon Web Services
- Discover approaches to backpressure and error handling
- Get to grips with futures and learn where they fit in

About the Author

Leonardo Borges is a programming languages enthusiast who loves writing code, contributing to open source software, and speaking on subjects he feels strongly about. After nearly 5 years of consulting at ThoughtWorks, where he worked in two commercial Clojure projects, among many others, he is now a software engineer at Atlassian. He uses Clojure and ClojureScript to help build real-time collaborative

editing technology.

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