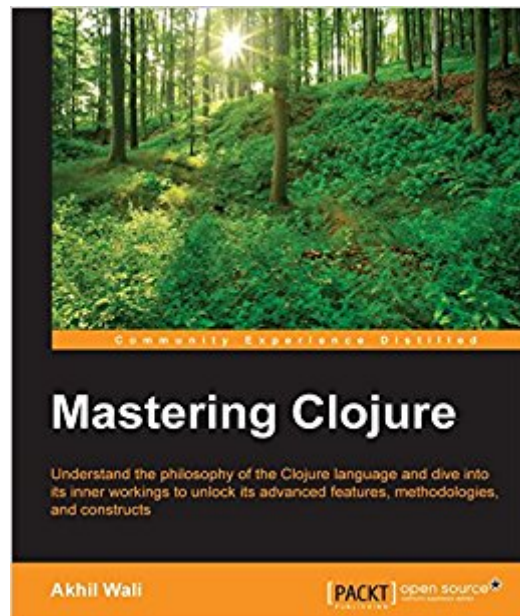


The book was found

Mastering Clojure



Synopsis

Key Features Learn to handle data using sequences, reducers, and transducers in Clojure Explore the lesser known and more advanced features, constructs, and methodologies of the Clojure language and its ecosystem, such as asynchronous channels, actors, logic programming, and reactive programming Sharpen your Clojure skills through illustrative and comprehensive examples

Book Description Clojure is a general-purpose language from the Lisp family with an emphasis on functional programming. It has some interesting concepts and features such as immutability, gradual typing, thread-safe concurrency primitives, and macro-based metaprogramming, which makes it a great choice to create modern, performant, and scalable applications. Mastering Clojure gives you an insight into the nitty-gritty details and more advanced features of the Clojure programming language to create more scalable, maintainable, and elegant applications. You'll start off by learning the details of sequences, concurrency primitives, and macros. Packed with a lot of examples, you'll get a walkthrough on orchestrating concurrency and parallelism, which will help you understand Clojure reducers, and we'll walk through composing transducers so you know about functional composition and process transformation inside out. We also explain how reducers and transducers can be used to handle data in a more performant manner. Later on, we describe how Clojure also supports other programming paradigms such as pure functional programming and logic programming. Furthermore, you'll level up your skills by taking advantage of Clojure's powerful macro system. Parallel, asynchronous, and reactive programming techniques are also described in detail. Lastly, we'll show you how to test and troubleshoot your code to speed up your development cycles and allow you to deploy the code faster.

What you will learn Maximize the impact of parallelization, functional composition, and process transformation by composing reducers and transducers Process and manipulate data using sequences, reducers, and transducers in Clojure Modify and add features to the Clojure language using macros Explore the features of category theory and custom data sources for logic programming in Clojure Orchestrate parallelism and concurrency using built-in primitives as well as community libraries in Clojure Handle data with asynchronous and reactive programming methodologies and leverage it using the core.async library Test your code with unit tests, specs, and type checks to write testable code Troubleshoot and style your Clojure code to make it more maintainable

About the Author Akhil Wali is a software developer. He has been writing code as a hobbyist since 1997 and professionally since 2010. He completed his post graduation from Santa Clara University in 2010, and he graduated from Visvesvaraya Technological University in 2008. His areas of work include business intelligence systems, ERP systems, search engines, and document

collaboration tools. He mostly works with Clojure, JavaScript, and C#. Apart from computers, his interests include soccer, guitar solos, and finding out more about the universe.

Table of Contents

Working with Sequences and Patterns

Orchestrating Concurrency and Parallelism

Parallelization Using Reducers

Metaprogramming with Macros

Composing Transducers

Exploring Category Theory

Programming with Logic

Leveraging Asynchronous Tasks

Reactive Programming

Testing Your Code

Troubleshooting and Best Practices

References

Book Information

File Size: 2162 KB

Print Length: 266 pages

Publisher: Packt Publishing; 1 edition (March 28, 2016)

Publication Date: March 28, 2016

Sold by:Â Digital Services LLC

Language: English

ASIN: B017XSFL4Q

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Enabled

Best Sellers Rank: #493,089 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #56

inÂ Books > Computers & Technology > Programming > Languages & Tools > Lisp #73 inÂ Books > Computers & Technology > Programming > Functional #73 inÂ Books > Computers & Technology > Programming > Parallel Programming

Customer Reviews

This is a well written book about Clojure and its ecosystem. There's no other book that explains reducers, transducers, core.async and core.logic with the level of detail as described in this book. All code examples are well explained and give the reader a good idea of what real world Clojure code looks like.

[Download to continue reading...](#)

Mastering Clojure Mastering Adoption Law and Policy (Mastering Series) (Carolina Academic Press Mastering) Clojure Programming Clojure Applied: From Practice to Practitioner Programming Clojure Functional Programming Patterns in Scala and Clojure: Write Lean Programs for the JVM

Web Development with Clojure: Build Bulletproof Web Apps with Less Code Clojure Cookbook: Recipes for Functional Programming Mastering Secured Transactions (UCC Article 9), Second Edition (Carolina Academic Press Mastering) Mastering Negotiable Instruments: Ucc Articles 3 and 4 and Other Payment Systems (Mastering Series) Mastering Tort Law (Carolina Academic Press Mastering) Mastering Elder Law, Second Edition (Carolina Academic Press Mastering) Mastering Jujitsu (Mastering Martial Arts Series) Mastering German Vocabulary: A Thematic Approach (Mastering Vocabulary) Mastering Oracle SQL, 2nd Edition Mastering Social Media Mining with Python Mastering Data Warehouse Aggregates: Solutions for Star Schema Performance Introduction to SQL: Mastering the Relational Database Language (4th Edition) Mastering Regular Expressions Photoshop: Absolute Beginners Guide To Mastering Photoshop And Creating World Class Photos

[Dmca](#)