



Mastering Clojure Macros

Write Cleaner, Faster,
Smarter Code



Colin Jones

Edited by Fatmida Y. Rashid

Mastering Clojure Macros Write Cleaner Faster Smarter Code

Julia Schneider



Mastering Clojure Macros Write Cleaner Faster Smarter Code:

Mastering Clojure Macros Colin Jones, 2014-08-26 Level up your skills by taking advantage of Clojure's powerful macro system. Macros make hard things possible and normal things easy. They can be tricky to use and this book will help you deftly navigate the terrain. You'll discover how to write straightforward code that avoids duplication and clarifies your intentions. You'll learn how and why to write macros. You'll learn to recognize situations when using a macro would and wouldn't be helpful. And you'll use macros to remove unnecessary code and build new language features. Clojure offers some sharp tools in its toolbox and one of the sharpest is its macro system. This book will help you write macros using Clojure and more importantly recognize when you should be using macros in the first place. The Lisp code as data philosophy gives tremendous advantages to macro authors and users. You can use macros to evaluate code in other contexts, move computations to compile time, and create beautiful API layers. You don't need to wait on the Clojure language itself to add new features; you'll learn how to implement even the lowest level features as macros. You'll step through representative samples of how to use macros in production libraries and applications, find clear details on how to construct macros, and learn pointers to avoid obstacles that often trip up macro amateurs. Clojure macros are more straightforward to use than metaprogramming features in many other languages, but they're different enough from normal programming to present challenges of their own. *Mastering Clojure Macros* examines some of these issues along with alternatives to macros where they exist. By the time you finish this book, you'll be thinking like a macro professional. What You Need: The book examples have been developed under Clojure 1.6.0, although earlier and later versions of Clojure may work as well. You'll want to use Leiningen 2.x in order to follow along with the examples that use external projects.

Clojure Applied Ben Vandgrift, Alex Miller, 2015-08-27 Think in the Clojure way. Once you're familiar with Clojure, take the next step with extended lessons on the best practices and most critical decisions you'll need to make while developing. Learn how to model your domain with data, transform it with pure functions, manage state, spread your work across cores, and structure apps with components. Discover how to use Clojure in the real world and unlock the speed and power of this beautiful language on the Java Virtual Machine. *Clojure Applied* gives you the practical, realistic advice and depth of field that's been missing from your development practice. You want to develop software in the most effective, efficient way possible. This book gives you the answers you've been looking for in friendly, clear language. Dive into the core concepts of Clojure: immutable collections, concurrency, pure functions, and state management. You'll finally get the complete picture you've been looking for rather than dozens of puzzle pieces you must assemble yourself. First, explore the core concepts of Clojure development: learn how to model your domain with immutable data, choose the ideal collection, and write simple pure functions for efficient transformation. Next, you'll apply those core concepts to build applications, discover how Clojure manages state and identity, spread your work for concurrent programming, and create and assemble components. Finally, see how to manage external integration and deployment concerns by developing a testing strategy, connecting with

other data sources and getting your libraries and applications out the door Go beyond the toy box and into Clojure s way of thinking By the end of this book you ll have the tools and information to put Clojure s strengths to work What You Need To follow along with the examples in the book you will need Clojure 1 6 Leinegen 2 and Java 6 or higher [Build a Binary Clock with Elixir and Nerves](#) Frank Hunleth,Bruce Tate,2022-08-02 Want to get better at coding Elixir Write a hardware project with Nerves As you build this binary clock you ll build in resiliency using OTP the same libraries powering many commercial phone switches You ll attack complexity the way the experts do using a layered approach You ll sharpen your debugging skills by taking small easily verified steps toward your goal When you re done you ll have a working binary clock and a good appreciation of the work that goes into a hardware system You ll also be able to apply that understanding to every new line of Elixir you write Combining software with hardware can be frustrating but you can become proficient in no time by taking a simple logical approach Blinking a single LED is the traditional hello world of embedded systems Building your own binary clock is the logical next step It blinks groupings of LEDs based on the system time This guide walks you through a working project using the techniques used by experts who build software for hardware every day This common sense project moves forward in tiny logical steps As you progress you can verify each step before moving on to the next You don t have to be a Nerves novice to benefit from this project Become a better Elixir programmer as you build your own desktop showpiece With a layered approach to software design you ll learn to control the complexity of your programs the way the experts do by focusing on one small slice of your system at a time When you re done you ll have your own binary clock and also more of the tools you need to design and build your own Nerves and Elixir projects You ll also be a better programmer with a deeper appreciation of layering techniques for controlling complexity What You Need This project is for Elixir developers who want to get started with Nerves or improve their skills The project is designed for Elixir 1 11 and Nerves 1 7 but later versions will probably work as well with slight modifications The project uses a Raspberry Pi zero with a set of components With slight modifications you can make this book work with other components as well **Clojure Reactive Programming** Leonardo Borges,2015-03-23 If you are a Clojure developer who is interested in using Reactive Programming to build asynchronous and concurrent applications this book is for you Knowledge of Clojure and Leiningen is required Basic understanding of ClojureScript will be helpful for the web chapters although it is not strictly necessary **Mastering Clojure** Akhil Wali,2016-03-25 Understand the philosophy of the Clojure language and dive into its inner workings to unlock its advanced features methodologies and constructsAbout This Book 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 examplesWho This Book Is ForIf you re looking to learn more about the core libraries and dive deep into the Clojure language then this book is ideal for you Prior knowledge of the Clojure language is required

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 In Detail 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 Style and approach This is an easy to follow project based guide that throws you directly into the excitement of Clojure code Mastering Clojure is for anyone who is interested in expanding their knowledge of language features and advanced functional programming

Mastering Clojure: An Essential Guide to Functional Programming Basics Adam Jones, 2025-01-02 Unlock the power of functional programming with Mastering Clojure An Essential Guide to Functional Programming Basics your definitive resource for conquering the Clojure language Whether you re a newcomer to programming or a seasoned developer eager to expand your expertise this book provides an in depth exploration of Clojure s foundational concepts and vibrant ecosystem Embark on your Clojure journey with precise insightful explanations covering everything from setting up your development environment to crafting sophisticated web applications Delve into Clojure s innovative data structures functional programming principles concurrency and parallelism Master state and identity management within your applications handle errors efficiently and debug with confidence Discover the seamless integration of Clojure with Java tapping into the extensive Java ecosystem for your projects Through practical examples expert advice and targeted tutorials Mastering Clojure equips you to write efficient elegant code harnessing the full potential

of functional programming Embrace the journey to becoming a skilled Clojure developer ready to tackle contemporary software development challenges with creativity and assurance *Mastering Clojure Data Analysis* Eric Rochester,2014-05-26 This book consists of a practical exampleoriented approach that aims to help you learn how to use Clojure for data analysis quickly and efficiently This book is great for those who have experience with Clojure and need to use it to perform data analysis This book will also be hugely beneficial for readers with basic experience in data analysis and statistics Clojure in Action Amit Rathore,2015-12-16 Summary A fully revised edition that covers the new features available in Clojure 1 6 Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Clojure is a modern Lisp for the JVM It has the strengths you expect first class functions macros and Lisp s clean programming style It supports functional programming making it ideal for concurrent programming and for creating domain specific languages Clojure lets you solve harder problems make faster changes and end up with a smaller code base It s no wonder that there are so many Clojure success stories About the Book Clojure in Action Second Edition is an expanded and improved version that s been updated to cover the new features of Clojure 1 6 The book gives you a rapid introduction to the Clojure language moving from abstract theory to practical examples You ll start by learning how to use Clojure as a general purpose language Next you ll explore Clojure s efficient concurrency model based on the database concept of Software Transactional Memory STM You ll gain a new level of productivity through Clojure DSLs that can run on the JVM Along the way you ll learn countless tips tricks and techniques for writing smaller safer and faster code What s Inside Functional programming basics Metaprogramming with Clojure s macros Interoperating with Java Covers Clojure 1 6 About the Reader Assumes readers are familiar with a programming language like C Java Ruby or Python Table of Contents Introducing Clojure Clojure elements Data structures and functions Building blocks of Clojure Multimethod polymorphism Exploring Clojure and Java interop State and the concurrent world Evolving Clojure through macros More on functional programming Protocols records and types Test driven development and more More macros and DSL *Clojure in Action, Second Edition* Amit Avila,2015 A fully revised edition that covers the new features available in Clojure 1 6 About the Technology Clojure is a modern Lisp for the JVM It has the strengths you expect first class functions macros and Lisp s clean programming style It supports functional programming making it ideal for concurrent programming and for creating domain specific languages Clojure lets you solve harder problems make faster changes and end up with a smaller code base It s no wonder that there are so many Clojure success stories About the Book Clojure in Action Second Edition is an expanded and improved version that s been updated to cover the new features of Clojure 1 6 The book gives you a rapid introduction to the Clojure language moving from abstract theory to practical examples You ll start by learning how to use Clojure as a general purpose language Next you ll explore Clojure s efficient concurrency model based on the database concept of Software Transactional Memory STM You ll gain a new level of productivity through Clojure DSLs that can run on the JVM Along the

way you'll learn countless tips tricks and techniques for writing smaller safer and faster code

What's Inside Functional programming basics Metaprogramming with Clojure's macros Interoperating with Java Covers Clojure 1.6 About the Reader Assumes readers are familiar with a programming language like C Java Ruby or Python

About the Authors Amit Rathore has 12 years of experience building large scale data heavy applications for a variety of domains Francis Avila is a software developer at Breeze with seven years of experience in back and front end web development

Programming Clojure Alex Miller, Stuart Halloway, Aaron Bedra, 2018-02-23

Drowning in unnecessary complexity unmanaged state and tangles of spaghetti code In the best tradition of Lisp Clojure gets out of your way so you can focus on expressing simple solutions to hard problems Clojure cuts through complexity by providing a set of composable tools immutable data functions macros and the interactive REPL Written by members of the Clojure core team this book is the essential definitive guide to Clojure This new edition includes information on all the newest features of Clojure such as transducers and specs Clojure joins the flexibility and agility of Lisp with the reach stability and performance of Java Combine Clojure's tools for maximum effectiveness as you work with immutable data functional programming and safe concurrency to write programs that solve real world problems Start by reading and understanding Clojure syntax and see how Clojure is evaluated From there find out about the sequence abstraction which combines immutable collections with functional programming to create truly reusable data transformation code Clojure is a functional language learn how to write programs in a functional style and when and how to use recursion to your advantage Discover Clojure's unique approach to state and identity techniques for polymorphism and open systems using multimethods and protocols and how to leverage Clojure's metaprogramming capabilities via macros Finally put all the pieces together in a real program New to this edition is coverage of Clojure's spec library one of the most interesting new features of Clojure for describing both data and functions You can use Clojure spec to validate data destructure data explain invalid data and generate large numbers of tests to verify the correctness of your code With this book you'll learn how to think in Clojure and how to take advantage of its combined strengths to build powerful programs quickly

What You Need Java 6 or higher Clojure 1.9

Clojure for the Brave and True Daniel Higginbotham, 2015-10-15

For weeks months nay from the very moment you were born you've felt it calling to you At long last you'll be united with the programming language you've been longing for Clojure As a Lisp style functional programming language Clojure lets you write robust and elegant code and because it runs on the Java Virtual Machine you can take advantage of the vast Java ecosystem Clojure for the Brave and True offers a dessert first approach you'll start playing with real programs immediately as you steadily acclimate to the abstract but powerful features of Lisp and functional programming Inside you'll find an offbeat practical guide to Clojure filled with quirky sample programs that catch cheese thieves and track glittery vampires Learn how to Wield Clojure's core functions Use Emacs for Clojure development Write macros to modify Clojure itself Use Clojure's tools to simplify concurrency and parallel programming Clojure for the Brave

and True assumes no prior experience with Clojure the Java Virtual Machine or functional programming Are you ready brave reader to meet your true destiny Grab your best pair of parentheses you re about to embark on an epic journey into the world of Clojure

The Joy of Clojure Michael Fogus,Chris Houser,2011-04-07 About the Book If you ve seen how dozens of lines of Java or Ruby can dissolve into just a few lines of Clojure you ll know why the authors of this book call it a joyful language Clojure is a dialect of Lisp that runs on the JVM It combines the nice features of a scripting language with the powerful features of a production environment features like persistent data structures and clean multithreading that you ll need for industrial strength application development The Joy of Clojure goes beyond just syntax to show you how to write fluent and idiomatic Clojure code You ll learn a functional approach to programming and will master Lisp techniques that make Clojure so elegant and efficient The book gives you easy access to hard soft ware areas like concurrency interoperability and performance And it shows you how great it can be to think about problems the Clojure way Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book What s Inside The what and why of Clojure How to work with macros How to do elegant application design Functional programming idioms Written for programmers coming to Clojure from another programming background no prior experience with Clojure or Lisp is required

The Joy of Clojure Michael Fogus,Chris Houser,2013-06-26 Summary The Joy of Clojure Second Edition is a deep look at the Clojure language Fully updated for Clojure 1 6 this new edition goes beyond just syntax to show you the why of Clojure and how to write fluent Clojure code You ll learn functional and declarative approaches to programming and will master the techniques that make Clojure so elegant and efficient Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology The Clojure programming language is a dialect of Lisp that runs on the Java Virtual Machine and JavaScript runtimes It is a functional programming language that offers great performance expressive power and stability by design It gives you built in concurrency and the predictable precision of immutable and persistent data structures And it s really really fast The instant you see long blocks of Java or Ruby dissolve into a few lines of Clojure you ll know why the authors of this book call it a joyful language It s no wonder that enterprises like Staples are betting their infrastructure on Clojure About the Book The Joy of Clojure Second Edition is a deep account of the Clojure language Fully updated for Clojure 1 6 this new edition goes beyond the syntax to show you how to write fluent Clojure code You ll learn functional and declarative approaches to programming and will master techniques that make Clojure elegant and efficient The book shows you how to solve hard problems related to concurrency interoperability and performance and how great it can be to think in the Clojure way Appropriate for readers with some experience using Clojure or common Lisp What s Inside Build web apps using ClojureScript Master functional programming techniques Simplify concurrency Covers Clojure 1 6 About the Authors Michael Fogus and Chris Houser are contributors to the Clojure and ClojureScript programming languages and the authors of various Clojure libraries and language features Table of Contents

PART 1 FOUNDATIONS Clojure philosophy Drinking from the Clojure fire hose Dipping your toes in the pool PART 2 DATA TYPES On scalars Collection types PART 3 FUNCTIONAL PROGRAMMING Being lazy and set in your ways Functional programming PART 4 LARGE SCALE DESIGN Macros Combining data and code Mutation and concurrency Parallelism PART 5 HOST SYMBIOSIS Java next Why ClojureScript PART 6 TANGENTIAL CONSIDERATIONS Data oriented programming Performance Thinking programs Clojure changes the way you think **Mastering Clojure** Horry Blee,2017-06-13

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 **Metaprogramming Elixir** Chris McCord,2015

Decoding **Mastering Clojure Macros Write Cleaner Faster Smarter Code**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Mastering Clojure Macros Write Cleaner Faster Smarter Code**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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