Practical Clojure

Full Introduction to Clojure,
a full Lisp variant for the JVM

Luke VanderHart and Stuart Sierra

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Practical Clojure

Luke VanderHart,Ryan Neufeld

Practical Clojure:

Practical Clojure Luke VanderHart,Stuart Sierra,2010-12-31 This book is the first definitive reference for the Clojure language providing both an introduction to functional programming in general and a more specific introduction to Clojure s features This book demonstrates the use of the language through examples including features such as software transactional memory STM and immutability which may be new to programmers coming from other languages Overview of functional programming and description of what sets Clojure apart from other languages Detailed explanation of Clojure s special features Examples of real world tasks that are well suited to Clojure s capabilities starting with simple tasks and moving on to more complex applications **Clojure Programming** Chas Emerick,Brian Carper,Christophe Grand,2012-04-12 The Clojure language offers a practical alternative for solving demanding problems using existing Java libraries frameworks and services Readers get a solid grounding in Clojure fundamentals based on the environments they are already familiar with whether working with data concurrency application interfaces or other challenges **Clojure Cookbook** Luke VanderHart,Ryan Neufeld,2014-03-05 With more than 150 detailed recipes this cookbook shows experienced Clojure developers how to solve a variety of programming tasks with this JVM language The solutions cover everything from building dynamic websites and working with databases to network communication cloud computing and advanced testing strategies And more than 60 of the world s best Clojurians contributed recipes Each recipe includes code that you can use right away along with a discussion on how and why the solution works so you can adapt these patterns approaches and techniques to situations not specifically covered in this cookbook Master built in primitive and composite data structures Create develop and publish libraries using the Leiningen tool Interact with the local computer that s running your application Manage network communication protocols and libraries Use techniques for connecting to and using a variety of databases Build and maintain dynamic websites using the Ring HTTP server library Tackle application tasks such as packaging distributing profiling and logging Take on cloud computing and heavyweight distributed data crunching Dive into unit integration simulation and property based testing Clojure Cookbook is a collaborative project with contributions from some of the world s best Clojurians whose backgrounds range from aerospace to social media banking to robotics AI research to e commerce

Mastering Clojure Akhil Wali,2016-03-28 Understand the philosophy of the Clojure language and dive into its inner workings to unlock its advanced features methodologies and constructs About 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 examples Who This Book Is For If 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 **Clojure in Action** Amit Rathore,2011-11-20 Summary Clojure in Action is a hands on tutorial for the working programmer who has written code in a language like Java or Ruby but has no prior experience with Lisp It teaches Clojure from the basics to advanced topics using practical real world application examples Blow through the theory and dive into practical matters like unit testing and environment set up all the way through building a scalable web application using domain specific languages Hadoop HBase and RabbitMQ About the Technology Clojure is a modern Lisp for the JVM and it has the strengths you d expect first class functions macros support for functional programming and a Lisp like clean programming style About this Book Clojure in Action is a practical guide focused on applying Clojure to practical programming challenges You ll start with a language tutorial written for readers who already know OOP Then you ll dive into the use cases where Clojure really shines state management safe concurrency and multicore programming first class code generation and Java interop In each chapter you ll first explore the unique characteristics of a problem area and then

discover how to tackle them using Clojure Along the way you ll explore practical matters like architecture unit testing and set up as you build a scalable web application that includes custom DSLs Hadoop HBase and RabbitMQ 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 A fast paced Clojure tutorial Creating web services with Clojure Scaling through messaging Creating DSLs with Clojure s macro system Test driven development with Clojure Distributed programming with Clojure and more This book assumes you re familiar with an OO language like Java C or C but requires no background in Lisp or Clojure itself Table of Contents PART 1 GETTING STARTED Introduction to Clojure A whirlwind tour Building blocks of Clojure Polymorphism with multimethods Clojure and Java interop State and the concurrent world Evolving Clojure through macros PART 2 GETTING REAL Test driven development and more Data storage with Clojure Clojure and the web Scaling through messaging Data processing with Clojure More on functional programming Protocols records and type More macros and DSLs

ClojureScript Stuart Sierra,Luke VanderHart,2013 Learn how to build complete client side applications with ClojureScript the Clojure language variant that compiles to optimized JavaScript This hands on introduction shows you how ClojureScript not only has similarities to JavaScript without the flaws but also supports the full semantics of its parent language You ll delve into ClojureScript s immutable data structures lazy sequences first class functions macros and support for JavaScript libraries No previous experience with Clojure or ClojureScript is necessary If you re familiar with JavaScript HTML CSS and the DOM you ll quickly discover that ClojureScript has the same reach as JavaScript but with more power Start writing ClojureScript code with the Leiningen build system Learn how the ClojureScript compiler works to produce optimized JavaScript Use JavaScript functions and libraries directly from ClojureScript code Explore functions in Clojure s sequence library such as map reduce and filter Use macros to define new control structures or embed domain specific languages Compile manually or script your own workflow with ClojureScript s compiler tools Integrate ClojureScript with Clojure on the JVM to build powerful client server applications Clojure Cookbook Luke VanderHart,Ryan Neufeld,2014-03-05 With more than 150 detailed recipes this cookbook shows experienced Clojure developers how to solve a variety of programming tasks with this JVM language The solutions cover everything from building dynamic websites and working with databases to network communication cloud computing and advanced testing strategies And more than 60 of the world s best Clojurians contributed recipes Each recipe includes code that you can use right away along with a discussion on how and why the solution works so you can adapt these patterns approaches and techniques to situations not specifically covered in this cookbook Master built in primitive and composite data structures Create develop and publish libraries using the Leiningen tool Interact with the local computer that s running your application Manage network communication protocols and libraries Use techniques for connecting to and using a variety of databases Build and maintain dynamic websites using the Ring HTTP server library Tackle application tasks such as packaging distributing profiling and logging

Take on cloud computing and heavyweight distributed data crunching Dive into unit integration simulation and property based testing Clojure Cookbook is a collaborative project with contributions from some of the world s best Clojurians whose backgrounds range from aerospace to social media banking to robotics AI research to e commerce *Professional Clojure* Jeremy Anderson,Michael Gaare,Justin Holguín,Nick Bailey,Timothy Pratley,2016-05-25 Clear practical Clojure for the professional programmer Professional Clojure is the experienced developer s guide to functional programming using the Clojure language Designed specifically to meet the needs of professional developers this book briefly introduces functional programming before skipping directly to the heart of using Clojure in a real world setting The discussion details the read eval print workflow that enables fast feedback loops then dives into enterprise level Clojure development with expert guidance on web services testing datomics performance and more Read from beginning to end this book serves as a clear direct guide to Clojure programming but the comprehensive coverage and detail makes it extraordinarily useful as a quick reference for mid project snags The author team includes four professional Clojure developers ensuring professional level instruction from a highly practical perspective Clojure is an open source programming language maintained and supported by Cognitect and quickly gaining use across industries at companies like Amazon Walmart Facebook Netflix and more This guide provides a concise yet thorough resource for professional developers needing to quickly put Clojure to work Parse the difference between functional and object oriented programming Understand Clojure performance and capabilities Develop reactive web pages using ClojureScript Adopt an REPL driven development workflow Clojure is a modern dialect of Lisp designed for concurrency and Java compatibility It can be used with the Java virtual machine Microsoft s Common Language Runtime and JavaScript engines providing a level of both versatility and functionality that is appealing to more and more enterprise level developers As requirements grow increasingly complex stepping away from imperative programming can dramatically streamline the development workflow Professional Clojure provides the expert instruction that gets professionals up to speed and back to work quickly **Rapid Modernization of Java Applications: Practical Business and Technical Solutions for Upgrading Your Enterprise Portfolio** G. Venkat,2017-10-06 Implement a High Performance Enterprise Java Application Modernization Strategy Learn cutting edge techniques and processes to systematically and strategically modernize legacy Java applications with predictability consistency and confidence This Oracle Press guide offers an innovative blueprint that empowers corporate management teams to better understand necessary technical requirements and enables Java architects and developers to better align with agile business needs Rapid Modernization of Java Applications Practical Business and Technical Solutions for Upgrading Your Enterprise Portfolio contains modernization approaches that offer end to end Java application portfolio visibility so that application modernization projects can stay on schedule and within budget Clojure Data Analysis Cookbook - Second Edition Eric Rochester,2015-01-27 This book is for those with a basic knowledge of Clojure who are looking to push the language to excel with data analysis **ClojureScript:**

Up and Running Stuart Sierra,Luke VanderHart,2012-10-25 Learn how to build complete client side applications with ClojureScript the Clojure language variant that compiles to optimized JavaScript This hands on introduction shows you how ClojureScript not only has similarities to JavaScript without the flaws but also supports the full semantics of its parent language You ll delve into ClojureScript s immutable data structures lazy sequences first class functions macros and support for JavaScript libraries No previous experience with Clojure or ClojureScript is necessary If you re familiar with JavaScript HTML CSS and the DOM you ll quickly discover that ClojureScript has the same reach as JavaScript but with more power Start writing ClojureScript code with the Leiningen build system Learn how the ClojureScript compiler works to produce optimized JavaScript Use JavaScript functions and libraries directly from ClojureScript code Explore functions in Clojure s sequence library such as map reduce and filter Use macros to define new control structures or embed domain specific languages Compile manually or script your own workflow with ClojureScript s compiler tools Integrate ClojureScript with Clojure on the JVM to build powerful client server applications *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 **Quick Clojure** Mark McDonnell,2017-08-25 Get up to speed with Clojure in this quick and practical primer You ll learn the nuts and bolts of functional programming data structures sequences destructuring pattern matching polymorphism concurrency conventions and more Author Mark McDonnell talks about organization with namespaces how to change the language via macros object oriented programming and creating command line apps Finally he shows you how to write Clojure from shell languages and interfaces such as Vim After reading and using Quick Clojure you ll come away with first hand knowledge and advice on how to quickly adopt use and apply Clojure without all the theoretical baggage that bigger books can sometimes bring What You ll Learn Work with data structures and their syntax Discover OOP in Clojure with patterns polymorphisms pattern matching and concurrency Use conventions organization and namespaces in Clojure Create command line apps Build various Clojure projects with the Leiningen IDE tool and framework Who This Book Is For

Programmers with experience A Java background would be helpful but not required **Living Clojure** Carin Meier,2015-04-14 Annotation If you re an experienced programmer looking for a thorough but gentle introduction to Clojure this is the perfect guide for you Author Carin Meier not only provides a practical overview of this JVM language and its functional programming concepts but also includes a complete hands on training course to help you learn Clojure in a structured way **The the Clojure Workshop** Joseph Fahey,Thomas Haratyk,Scott McCaughie,2020-01-28 Cut through the noise and get real results with a step by step approach to learning Clojure programming Key Features Ideal for the Clojure beginner who is getting started for the first time A step by step Clojure tutorial with exercises and activities that help build key skills Structured to let you progress at your own pace on your own terms Use your physical print copy to redeem free access to the online interactive edition Book Description You already know you want to learn Clojure and a smarter way to learn Clojure is to learn by doing The Clojure Workshop focuses on building up your practical skills so that you can write clean expressive code with a language that is great for applications where concurrency and interoperability with the JVM are a priority You ll learn from real examples that lead to real results Throughout The Clojure Workshop you ll take an engaging step by step approach to understanding Clojure You won t have to sit through any unnecessary theory If you re short on time you can jump into a single exercise each day or spend an entire weekend learning about Clojure web development with Ring It s your choice Learning on your terms you ll build up and reinforce key skills in a way that feels rewarding Every physical print copy of The Clojure Workshop unlocks access to the interactive edition With videos detailing all exercises and activities you ll always have a guided solution You can also benchmark yourself against assessments track progress and receive content updates You ll even earn a secure credential that you can share and verify online upon completion It s a premium learning experience that s included with your printed copy To redeem follow the instructions located at the start of your Clojure book Fast paced and direct The Clojure Workshop is the ideal for Clojure beginners You ll build and iterate on your code like a software developer learning along the way This process means that you ll find that your new skills stick embedded as best practice A solid foundation for the years ahead What you will learn Learn about Clojure fundamentals like functional programming Understand and implement common Clojure patterns and best practices Explore Clojure s testing infrastructure and the clojure test library Build a client server application with Clojure and ClojureScript Learn how to debug and resolve errors and exceptions Explore Ring Clojure s interface and library for building web applications Who this book is for Our goal at Packt is to help you be successful in whatever it is you choose to do The Clojure Workshop is an ideal Clojure tutorial for the Clojure beginner who is just getting started Pick up a Workshop today and let Packt help you develop skills that stick with you for life 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 **Getting Clojure** Russ Olsen,2018-05-09 Behind every programming language lies a vision of how programs should be built The vision behind Clojure is of a radically simple language framework holding together a sophisticated collection of programming features Learning Clojure involves much more than just learning the mechanics of the language To really get Clojure you need to understand the ideas underlying this structure of framework and features You need this book an accessible introduction to Clojure that focuses on the ideas behind the language as well as the practical details of writing code Clojure attracts developers on the cutting edge and is arguably the best language for learning to program in the functional style without compromise But this comes with a steep learning curve Getting Clojure directly addresses this by teaching you how to think functionally as it teaches you the language You ll learn about Clojure s powerful data structures and high level functions but you ll also learn what it means for a language to be functional and how to think in Clojure s functional way Each chapter of Getting Clojure takes a feature or two or three from the language explains the syntax and the mechanics behind that feature so that you can make it work before digging into the deeper questions What is the thinking behind the feature And how does it fit in with the rest of the language In Getting Clojure you ll learn Clojure s very simple syntax but you ll also learn why that syntax is integral the way the language is constructed You ll discover that most data structures in Clojure are immutable but also why that leads to more reliable programs And you ll see how easy it is to write Clojure functions and also how you can use those functions to build complex and capable systems With real world examples of how working Clojure programmers use the language Getting Clojure will help you see the challenges of programming through the eye of experienced Clojure developers What You Need You will need to some background in programming To follow along with the

examples in the book you will need Java 6 or new Clojure 1 8 or 1 9 and Leiningen 2 *Learn ClojureScript* Andrew Meredith,2021-03 ClojureScript is a pragmatic functional programming language for building web applications Whether you are an experienced JavaScript developer or a brand new programmer this book is your guide to creating impressive web apps in the simple and elegant ClojureScript language The tutorial style lessons are easy to follow at your own pace and the practical capstone projects will reinforce what you have learned By the end of the book you will have created A weather forecast widget A personal contact manager A text based adventure game A group chat app And more 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 Data Analysis Cookbook** Eric Rochester,2015-01-31 This book is for those with a basic knowledge of Clojure who are looking to push the language to excel with data analysis

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