Clojure High Performance Programming

Second Edition

Become an expert at writing fast and high performant code in Clojure 1.7.0

Shantanu Kumar

Clojure High Performance Programming Second Edition

Jeremy Anderson,Michael Gaare,Justin Holguín,Nick Bailey,Timothy Pratley

Clojure High Performance Programming Second Edition:

Clojure High Performance Programming Shantanu Kumar,2013   **Clojure High Performance Programming** Shantanu Kumar,2013 This is a short practical guide that will teach you everything you need to know to start writing high performance Clojure code This book is ideal for intermediate Clojure developers who are looking to get a good grip on how to achieve optimum performance You should already have some experience with Clojure and it would help if you already know a little bit of Java Knowledge of performance analysis and engineering is not required For hands on practice you should have access to Clojure REPL with Leiningen   Clojure High Performance Programming - Second Edition Shantanu Kumar,2015-09-29 Become an expert at writing fast and high performant code in Clojure 1 7 0About This Book Enhance code performance by using appropriate Clojure features Improve the efficiency of applications and plan their deployment A hands on guide to designing Clojure programs to get the best performanceWho This Book Is ForThis book is intended for intermediate Clojure developers who are looking to get a good grip on achieving optimum performance Having a basic knowledge of Java would be helpful What You Will Learn Identify performance issues in Clojure programs using different profiling tools Master techniques to achieve numerical performance in Clojure Use Criterium library to measure latency of Clojure expressions Exploit Java features in Clojure code to enhance performance Avoid reflection and boxing with type hints Understand Clojure s concurrency and state management primitives in depth Measure and monitor performance and understand optimization techniquesIn DetailClojure treats code as data and has a macro system It focuses on programming with immutable values and explicit progression of time constructs which are intended to facilitate the development of more robust programs particularly multithreaded ones It is built with performance pragmatism and simplicity in mind Like most general purpose languages various Clojure features have different performance characteristics that one should know in order to write high performance code This book shows you how to evaluate the performance implications of various Clojure abstractions discover their underpinnings and apply the right approach for optimum performance in real world programs It starts by helping you classify various use cases and the need for them with respect to performance and analysis of various performance aspects You will also learn the performance vocabulary that experts use throughout the world and discover various Clojure data structures abstractions and their performance characteristics Further the book will guide you through enhancing performance by using Java interoperability and JVM specific features from Clojure It also highlights the importance of using the right concurrent data structure and Java concurrency abstractions This book also sheds light on performance metrics for measuring how to measure and how to visualize and monitor the collected data At the end of the book you will learn to run a performance profiler identify bottlenecks tune performance and refactor code to get a better performance Style and approachAn easy to follow guide full of real world examples and self sufficient code snippets that will help you get your hands dirty with high performance programming with Clojure   **Clojure: High Performance JVM**

Programming Eduardo Diaz,Shantanu Kumar,Akhil Wali,2017-01-31 Explore the world of lightning fast Clojure apps with asynchronous channels logic reactive programming and more About This Book Discover Clojure s features and advantages and use them in your existing projects Explore lesser known and more advanced features constructs and methodologies such as asynchronous channels actors logic programming and reactive programming Measure and monitor performance and understand optimization techniques Who This Book Is For If you re looking to learn more about its core libraries and delve into the Clojure language in detail then this book is ideal for you Prior knowledge of the Clojure language is required What You Will Learn Understand tools for the Clojure world and how they relate to Java tools and standards such as Maven Write simple multicore programs using Clojure s core concepts such as atoms agents and refs Get to grips with Clojure s concurrency and state management primitives in depth Analyze latency using the Criterium library Avoid reflection and boxing with type hints Maximize the impact of parallelization functional composition and process transformation by composing reducers and transducers Modify and add features to the Clojure language using macros 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 This learning path aims at unleashing the true potential of the Clojure language so you can use it in your projects It begins with installing and setting up the Clojure environment before moving on to explore the language in depth You ll get acquainted with its various features such as functional programming concurrency reducers transducers core async and core logic and so on with a great level of detail Moving on you ll also learn how to enhance performance using Java interoperability and JVM specific features from Clojure you ll even master language features such as asynchronous channels actors logic programming reactive programming metaprogramming and so on This learning path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products Clojure for Java Developers by Eduardo Diaz Clojure High Performance Programming Second Edition by Shantanu Kumar Mastering Clojure by Akhil Wali Style and approach This is an easy to follow step by step guide to start writing Clojure programs making use of all of its varied features and advantages **Reactive with ClojureScript Recipes** Nicolas Modrzyk,2017-09-28 Use ClojureScript to create powerful serverless Web applications that are responsive and engaging This book presents Reactive recipes with Reagent a ClojureScript reactive framework to create interactive applications Throughout the book Reactive with ClojureScript Recipes uses progressively more complex examples and introduces you to a set of powerful tools that target rapid web application development In the last chapter you ll use these concepts for an HTML5 based deployment to smart phones ClojureScript is your functional programming language for the web ClojureScript looks like a LISP and compiles to JavaScript and thus runs

nicely run in the browser What You ll Learn Write simple static web apps with Boot Iintegrate ClojureScript and its libraries Animate content play with sound and videos Use Reagent andbe Reactive in the browser Run your Application on a smart phones Who This Book Is For Clojure developers who want to turn their functional skills to the web and JavaScript advanced developers who want reuse their web skills in a different language **The Well-Grounded Java Developer, Second Edition** Benjamin Evans,Martijn Verburg,Jason Clark,2022-12-27 Understanding Java from the JVM up gives you a solid foundation to grow your expertise and take on advanced techniques for performance concurrency containerization and more In The Well Grounded Java Developer Second Edition you will learn The new Java module system and why you should use it Bytecode for the JVM including operations and classloading Performance tuning the JVM Working with Java s built in concurrency and expanded options Programming in Kotlin and Clojure on the JVM Maximizing the benefits from your build CI tooling with Maven and Gradle Running the JVM in containers Planning for future JVM releases The Well Grounded Java Developer Second Edition introduces both the modern innovations and timeless fundamentals you need to know to become a Java master Authors Ben Evans Martijn Verburg and Jason Clark distill their decades of experience as Java Champions veteran developers and key contributors to the Java ecosystem into this clear and practical guide You ll discover how Java works under the hood and learn design secrets from Java s long history Each concept is illustrated with hands on examples including a fully modularized application library and creating your own multithreaded application Foreword by Heinz Kabutz About the technology Java is the beating heart of enterprise software engineering Developers who really know Java can expect easy job hunting and interesting work Written by experts with years of boots on the ground experience this book upgrades your Java skills It dives into powerful features like modules and concurrency models and even reveals some of Java s deep secrets About the book With The Well Grounded Java Developer Second Edition you will go beyond feature descriptions and learn how Java operates at the bytecode level Master high value techniques for concurrency and performance optimization along with must know practices for build test and deployment You ll even look at alternate JVM languages like Kotlin and Clojure Digest this book and stand out from the pack What s inside The new Java module system Performance tuning the JVM Maximizing CI CD with Maven and Gradle Running the JVM in containers Planning for future JVM releases About the reader For intermediate Java developers About the author Benjamin J Evans is a senior principal engineer at Red Hat Martijn Verburg is the principal SWE manager for Microsoft s Java Engineering Group Both Benjamin and Martijn are Java Champions Jason Clark is a principal engineer and architect at New Relic Table of Contents PART 1 FROM 8 TO 11 AND BEYOND 1 Introducing modern Java 2 Java modules 3 Java 17 PART 2 UNDER THE HOOD 4 Class files and bytecode 5 Java concurrency fundamentals 6 JDK concurrency libraries 7 Understanding Java performance PART 3 NON JAVA LANGUAGES ON THE JVM 8 Alternative JVM languages 9 Kotlin 10 Clojure A different view of programming PART 4 BUILD AND DEPLOYMENT 11 Building with Gradle and Maven 12 Running Java in containers 13 Testing fundamentals 14

Testing beyond JUnit PART 5 JAVA FRONTIERS 15 Advanced functional programming 16 Advanced concurrent programming 17 Modern internals 18 Future Java *Accumulo* Aaron Cordova,Billie Rinaldi,Michael Wall,2015-07 Get up to speed on Apache Accumulo the flexible high performance key value store created by the National Security Agency NSA and based on Google s BigTable data storage system Written by former NSA team members this comprehensive tutorial and reference covers Accumulo architecture application development table design and cell level security With clear information on system administration performance tuning and best practices this book is ideal for developers seeking to write Accumulo applications administrators charged with installing and maintaining Accumulo and other professionals interested in what Accumulo has to offer You will find everything you need to use this system fully Get a high level introduction to Accumulo s architecture and data model Take a rapid tour through single and multiple node installations data ingest and query Learn how to write Accumulo applications for several use cases based on examples Dive into Accumulo internals including information not available in the documentation Get detailed information for installing administering tuning and measuring performance Learn best practices based on successful implementations in the field Find answers to common questions that every new Accumulo user asks   Clojure: High Performance JVM Programming Eduardo Diaz,Shantanu Kumar,Akhil Wali,2017-01-31 Explore the world of lightning fast Clojure apps with asynchronous channels logic reactive programming and moreAbout This Book Discover Clojure s features and advantages and use them in your existing projects Explore lesser known and more advanced features constructs and methodologies such as asynchronous channels actors logic programming and reactive programming Measure and monitor performance and understand optimization techniquesWho This Book Is ForIf you re looking to learn more about its core libraries and delve into the Clojure language in detail then this book is ideal for you Prior knowledge of the Clojure language is required What You Will Learn Understand tools for the Clojure world and how they relate to Java tools and standards such as Maven Write simple multicore programs using Clojure s core concepts such as atoms agents and refs Get to grips with Clojure s concurrency and state management primitives in depth Analyze latency using the Criterium library Avoid reflection and boxing with type hints Maximize the impact of parallelization functional composition and process transformation by composing reducers and transducers Modify and add features to the Clojure language using macros Test your code with unit tests specs and type checks to write testable code Troubleshoot and style your Clojure code to make it more maintainableIn DetailClojure 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 This learning path aims at unleashing the true potential of the Clojure language so you can use it in your projects It begins with installing and setting up the Clojure environment before moving on to explore the language in depth You ll get acquainted with its various features such as functional programming concurrency reducers

transducers core async and core logic and so on with a great level of detail Moving on you ll also learn how to enhance performance using Java interoperability and JVM specific features from Clojure you ll even master language features such as asynchronous channels actors logic programming reactive programming metaprogramming and so on This learning path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products Clojure for Java Developers by Eduardo Diaz Clojure High Performance Programming Second Edition by Shantanu Kumar Mastering Clojure by Akhil WaliStyle and approachThis is an easy to follow step by step guide to start writing Clojure programs making use of all of its varied features and advantages **The Joy of Clojure** Chris Houser,Michael Fogus,2014-05-28 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 **Programming Languages and Systems** Peter Thiemann,2016-03-21 This book constitutes the proceedings of the 25th European Symposium on Programming ESOP 2016 which took place in

Eindhoven The Netherlands in April 2016 held as Part of the European Joint Conferences on Theory and Practice of Software ETAPS 2016 The 29 papers presented in this volume were carefully reviewed and selected from 98 submissions Being devoted to fundamental issues in the specification design analysis and implementation of programming languages and systems ESOP features contributions on all aspects of programming language research theoretical and or practical advances

A Functional, Comprehensive and Extensible Multi-Platform Querying and Transformation Approach Tassilo Horn,2015-07-11 This thesis is about a new model querying and transformation approach called FunnyQT which is realized as a set of APIs and embedded domain specific languages DSLs in the JVM based functional Lisp dialect Clojure Founded on a powerful model management API FunnyQT provides querying services such as comprehensions quantified expressions regular path expressions logic based relational model querying and pattern matching On the transformation side it supports the definition of unidirectional model to model transformations of in place transformations it supports defining bidirectional transformations and it supports a new kind of co evolution transformations that allow for evolving a model together with its metamodel simultaneously Several properties make FunnyQT unique Foremost it is just a Clojure library thus FunnyQT queries and transformations are Clojure programs However most higher level services are provided as task oriented embedded DSLs which use Clojure s powerful macro system to support the user with tailor made language constructs important for the task at hand Since queries and transformations are just Clojure programs they may use any Clojure or Java library for their own purpose e g they may use some templating library for defining model to text transformations Conversely like every Clojure program FunnyQT queries and transformations compile to normal JVM byte code and can easily be called from other JVM languages Furthermore FunnyQT is platform independent and designed with extensibility in mind By default it supports the Eclipse Modeling Framework and JGraLab and support for other modeling frameworks can be added with minimal effort and without having to modify the respective framework s classes or FunnyQT itself Lastly because FunnyQT is embedded in a functional language it has a functional emphasis itself Every query and every transformation compiles to a function which can be passed around given to higher order functions or be parametrized with other functions *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 *Hands-On Reactive Programming with Clojure* Konrad Szydlo,Leonardo Borges,2019-01-25 Learn how to use RxClojure to deal with stateful computations Key FeaturesLeverage the features of Functional Reactive Programming using ClojureCreate dataflow based systems that are the building blocks of Reactive ProgrammingUse different Functional Reactive Programming frameworks techniques and patterns to solve real world problemsBook Description Reactive Programming is central to many concurrent systems and can help make the process of developing highly concurrent event driven and asynchronous applications simpler and less error prone This book will allow you to explore Reactive Programming in Clojure 1 9 and help you get to grips with some of its new features such as transducers reader conditionals additional string functions direct linking and socket servers Hands On Reactive Programming with Clojure starts by introducing you to Functional Reactive Programming FRP and its formulations as well as showing you how it inspired Compositional Event Systems CES It then guides you in understanding Reactive Programming as well as learning how to develop your ability to work with time varying values thanks to examples of reactive applications implemented in different frameworks You ll also gain insight into some interesting Reactive design patterns such as the simple component circuit breaker request response and multiple master replication Finally the book introduces microservices based architecture in Clojure and closes with examples of unit testing frameworks By the end of the book you will have gained all the knowledge you need to create applications using different Reactive Programming approaches What you will learnUnderstand how to think in terms of time varying values and event streamsCreate compose and transform observable sequences using Reactive extensionsBuild a CES framework from scratch using core async as its foundationDevelop a simple ClojureScript game using ReagiIntegrate Om and RxJS in a web applicationImplement a reactive API in Amazon Web Services AWS Discover helpful approaches to backpressure and error handlingGet to grips with futures and their applicationsWho this book is for If you re interested in using Reactive Programming to build asynchronous and concurrent applications this is the book for you Basic knowledge of Clojure programming is necessary to understand the concepts covered in this book **Mastering the Art of Clojure Programming: Unraveling the Secrets of Expert-Level Programming** Steve Jones,2025-02-15 Unlock the full potential of Clojure with Mastering the Art of Clojure Programming

Unraveling the Secrets of Expert Level Programming This comprehensive guide is meticulously crafted for experienced programmers ready to elevate their understanding and proficiency in Clojure to new heights Delve into advanced topics from the intricacies of Clojure s syntax and semantics to the high level application of functional programming paradigms Each chapter is designed to provide profound insights enhanced by practical examples and real world applications offering a pathway to writing extensible efficient and maintainable code Explore a wide array of topics that define the modern Clojure developer s toolkit Engage with concepts such as multithreading and concurrency leveraging Software Transactional Memory STM and core async for responsive and robust applications Learn to employ design patterns and functional programming techniques seamlessly within your projects ensuring that your applications are not only high performing but also scalable and intuitive From optimizing data structures and algorithms to creating sophisticated web applications and integrating with Java this book covers it all equipping you with the necessary expertise for building advanced software solutions Mastering the Art of Clojure Programming stands as an indispensable resource that balances theoretical understanding with practical execution By elucidating complex ideas in a clear and concise manner it prepares you to tackle the challenges of modern software development head on Whether you aim to refine your current skills or explore new dimensions of Clojure programming this book is your gateway to mastering the art of creating innovative and powerful applications with Clojure **Professional Clojure** Jeremy Anderson,Michael Gaare,Justin Holguín,Nick Bailey,Timothy Pratley,2016-06-07 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   **Programming Clojure, 2nd Edition** Stuart Halloway. Aaron Bedra,2012   **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   Programming Clojure Stuart Dabbs Halloway,Aaron Bedra,2012 The second edition of Programming Clojure is the first book to cover the new features in Clojure 1 3 It covers new concepts like Protocols and Datatypes as well as Clojure s changes to the numerics system In addition this book includes coverage of ClojureScript a new platform for the Clojure language that rests on top of JavaScript   *Programming Clojure, 3rd Edition* Alex Miller. Stuart Halloway. Aaron Bedra,2018   **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

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