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Mastering Clojure Data Analysis

Leverage the power and flexibility of Clojure through this practical guide to data analysis

Eric Rochester

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Mastering Clojure Data Analysis

**Felix Frank, Martin Alfke, Alessandro
Franceschi, Jaime Soriano
Pastor, Thomas Uphillis**



Mastering Clojure Data Analysis:

Mastering Clojure Data Analysis Eric Rochester, 2014-05-26 This book consists of a practical example-oriented 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 - 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 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 *Clojure Data Structures and Algorithms Cookbook* Rafik Naccache, 2015-08-19 25 recipes to deeply understand and implement advanced algorithms in Clojure About This Book Explore various advanced algorithms and learn how they are used to address many real world computing challenges Construct elegant solutions using impressive techniques including zippers parsing and pattern matching Solve complex problems by adopting innovative approaches such as logic or asynchronous programming In Detail Data structures and algorithms often cross your path when you compress files compile programs access databases or simply use your favourite text editor Understanding and implementing them can be daunting Curious learners and industrial developers can find these complex especially if they focus on the detailed implementation of these data structures Clojure is a highly pragmatic and expressive language with efficient and easy data manipulation capabilities As such it is great for implementing these algorithms By abstracting away a great share of the unnecessary complexity resulting from implementation Clojure and its contrib libraries will help you address various algorithmic challenges making your data exploration both profitable and enjoyable Through 25 recipes you ll explore advanced algorithms and data structures well served by a sound Clojure implementation This book opens with an exploration of alternative uses of the array data structure covering LZ77 compression drawing fractals using Pascal s triangles simulating a multi threaded program execution and implementing a call stack winding and un winding operations The book elaborates on linked lists showing you how to construct doubly linked ones speed up search times over the elements of such structures use a linked list as the foundation of a shift reduce parser and implement an immutable linked list using skew binary numbers representation After that the tree data structure is explored focusing on building self balancing Splay Trees designing a B Tree backing up an efficient key value data store constructing an undo capable Rope and showing how Tries can make for an auto completing facility Next some optimization and machine learning techniques are discussed namely for building a co occurrence based recommendation engine using branch and bound to optimize integral cost and profit problems using Dijkstra s algorithm to determine optimal paths and summarizing texts using the LexRank algorithm Particular attention is given to logic programming you will learn to use this to discover interesting relations between social website data by designing a simple

type inferencer for a mini Java like language and by building a simple checkers game engine Asynchronous programming will be addressed and you will design a concurrent web crawler an interactive HTML5 game and an online taxi booking platform Finally you ll explore advanced cases for higher order functions in Clojure while implementing a recursive descent parser using efficient mutual recursion devising a mini reusable firewall simulator thanks to Clojure 1 7 new transducers feature or building a simple unification engine with the help of Continuation Passing Style What You Will Learn Explore alternative uses of classical data structures like arrays and linked lists Discover advanced types of tree data structures Explore advanced machine learning and optimization techniques Utilise powerful Clojure libraries such as Instaparse for parsing core match for pattern matching clojure zip for zippers and clojure matrix for matrix operations Learn logic programming through the usage of the library core logic Master asynchronous programming using the core async library See the transducers in action while resolving real world use cases Who This Book Is For If you are an experienced Clojure developer longing to take your knowledge to the next level by discovering and using advanced algorithms and seeing how they can be applied to real world problems then this book is for you Style and approach This book consists of a set of step by step recipes each demonstrating the material covered in action so it is put in context When necessary pointers to further resources are provided

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 Clojure for Java Developers Eduardo Díaz,2016-02-23 Transition smoothly from Java to the most widely used functional JVM based language Clojure About This Book Write apps for the multithreaded world with Clojure s flavor of functional programming Discover Clojure s features and advantages and use them in your existing projects The book is designed so that you ll be able put to use your existing skills and software knowledge to become a more effective Clojure developer Who This Book Is For This book is intended for Java developers who are looking for a way to expand their skills and understand new paradigms of programming Whether you know a little bit about functional languages or you are just

getting started this book will get you up and running with how to use your existing skills in Clojure and functional programming What You Will Learn Understand the tools for the Clojure world and how they relate to Java tools and standards like Maven Learn about immutable data structures and what makes them feasible for everyday programming Write simple multi core programs using Clojure s core concepts like atoms agents and refs Understand that in Clojure code is data and how to take advantage of that fact by generating and manipulating code with macros Learn how Clojure interacts with Java how the class loaders work and how to use Clojure from Java or the other way around Discover a new more flexible meaning of polymorphism and understand that OOP is not the only way to get it In Detail We have reached a point where machines are not getting much faster software projects need to be delivered quickly and high quality in software is more demanding as ever We need to explore new ways of writing software that helps achieve those goals Clojure offers a new possibility of writing high quality multi core software faster than ever without having to leave your current platform Clojure for Java developers aims at unleashing the true potential of the Clojure language to use it in your projects The book begins with the installation and setup of the Clojure environment before moving on to explore the language in depth Get acquainted with its various features such as functional programming concurrency etc with the help of example projects Additionally you will also learn how the tooling works and how it interacts with the Java environment By the end of this book you will have a firm grip on Clojure and its features and use them effectively to write more robust programs Style and approach An easy to follow step by step guide on how to start writing Clojure programs making use of all of its varied features and advantages As this is a new language certain new concepts are supported with theoretical section followed by simple projects to help you gain a better understanding and practice of how Clojure works [Clojure for Data Science](#) Henry Garner,2015-09-03 Statistics big data and machine learning for Clojure programmers About This Book Write code using Clojure to harness the power of your data Discover the libraries and frameworks that will help you succeed A practical guide to understanding how the Clojure programming language can be used to derive insights from data Who This Book Is For This book is aimed at developers who are already productive in Clojure but who are overwhelmed by the breadth and depth of understanding required to be effective in the field of data science Whether you re tasked with delivering a specific analytics project or simply suspect that you could be deriving more value from your data this book will inspire you with the opportunities and inform you of the risks that exist in data of all shapes and sizes What You Will Learn Perform hypothesis testing and understand feature selection and statistical significance to interpret your results with confidence Implement the core machine learning techniques of regression classification clustering and recommendation Understand the importance of the value of simple statistics and distributions in exploratory data analysis Scale algorithms to web sized datasets efficiently using distributed programming models on Hadoop and Spark Apply suitable analytic approaches for text graph and time series data Interpret the terminology that you will encounter in technical papers Import libraries from other JVM languages

such as Java and Scala Communicate your findings clearly and convincingly to nontechnical colleagues In Detail The term data science has been widely used to define this new profession that is expected to interpret vast datasets and translate them to improved decision making and performance Clojure is a powerful language that combines the interactivity of a scripting language with the speed of a compiled language Together with its rich ecosystem of native libraries and an extremely simple and consistent functional approach to data manipulation which maps closely to mathematical formula it is an ideal practical and flexible language to meet a data scientist s diverse needs Taking you on a journey from simple summary statistics to sophisticated machine learning algorithms this book shows how the Clojure programming language can be used to derive insights from data Data scientists often forge a novel path and you ll see how to make use of Clojure s Java interoperability capabilities to access libraries such as Mahout and Mllib for which Clojure wrappers don t yet exist Even seasoned Clojure developers will develop a deeper appreciation for their language s flexibility You ll learn how to apply statistical thinking to your own data and use Clojure to explore analyze and visualize it in a technically and statistically robust way You can also use Incanter for local data processing and ClojureScript to present interactive visualisations and understand how distributed platforms such as Hadoop sand Spark s MapReduce and GraphX s BSP solve the challenges of data analysis at scale and how to explain algorithms using those programming models Above all by following the explanations in this book you ll learn not just how to be effective using the current state of the art methods in data science but why such methods work so that you can continue to be productive as the field evolves into the future Style and approach This is a practical guide to data science that teaches theory by example through the libraries and frameworks accessible from the Clojure programming language

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

Clojure High Performance Programming Shantanu Kumar,2015-09-29 Become an expert at writing fast and high performant code in Clojure 1 7 0 About 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 performance Who This Book Is For This 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 techniques In Detail Clojure 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 approach An 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

Mastering Magento Theme Design Andrea Saccà, 2014-04-25 Written in a step by step tutorial style with a lot of code snippets and hands on examples to create an advanced Magento theme from scratch this book is tailor made for web designers and developers This book is great for developers and web designers who are looking to get a good grounding in how to create custom responsive and advanced Magento themes Readers must have some experience with HTML PHP CSS and Magento theme design This book will be useful for anybody who already has knowledge of the Magento frontend structure

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

Puppet: Mastering Infrastructure Automation Felix Frank, Martin Alfke, Alessandro Franceschi, Jaime Soriano Pastor, Thomas Uphillis, 2017-06-13 Start pulling the strings of your IT infrastructure effectively with Puppet learn how to configure customize and manage your systems more intelligently in an enterprise deployment About This Book Step by step instructions to jump start your Puppet deployment and automate your IT configurations Design implement and deploy Puppet in your infrastructure and tackle everyday IT infrastructure challenges Gain expert understanding of Puppet s latest and most advanced features Who This Book Is For If you re an experienced IT professional and a new Puppet user this course will provide you with all you need to know to go from installation to advanced automation What You Will Learn Write and employ individual Puppet manifests Understand how Puppet implements system abstraction Use Puppet to manage network cloud and virtualization devices Manage and test the Puppet code workflow Tweak hack and adapt the Puppet extension points Use exported resources to orchestrate change between machines Debug a puppetserver using Java techniques In Detail Puppet is a configuration management tool that allows you to automate all your IT configurations giving you control It was written for and by system administrators to manage large numbers of systems efficiently and prevent configuration drifts Puppet gives you control of what you do to each node when you do it and how you do it This Learning Path will take you from the basics of Puppet to extending it and then mastering it We will start off with a primer on Puppet its installation and get a sneak peek under its hood We will then move on to designing and deploying your Puppet architecture learning best practices for writing reusable and maintainable code and executing testing and deploying Puppet across your systems Finally we will deal with problems of scale and exceptions in your code automate workflows and support multiple developers working simultaneously This course is based on the following books Puppet 4 Essentials Second Edition Extending Puppet Second Edition Mastering Puppet Second Edition Style and approach This learning path follows a practical approach starting from the basic commands to advanced aspects Through a series of examples you will learn the most important skills essential to manage your IT infrastructure effectively

Clojure Data Analysis Cookbook Eric Rochester, 2013 Full of practical tips the Clojure Data Analysis Cookbook will help you fully utilize your data through a series of step by step real world recipes covering every aspect of data analysis Prior experience with Clojure and data analysis techniques and workflows will be beneficial but not essential

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 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

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 Data Analysis Cookbook - Second Edition Eric Rochester, 2015 Dive into data analysis with Clojure through over 100 practical recipes for every stage of the analysis and collection process In Detail As data invades more and more of life and business the need to analyze it effectively has never been greater With Clojure and this book you'll soon be getting to grips with every aspect of data analysis You'll start with practical recipes that show you how to load and clean your data then get concise instructions to perform all the essential analysis tasks from basic statistics to sophisticated machine learning and data clustering algorithms Get a more intuitive handle on your data through hands-on visualization techniques that allow you to provide interesting informative and compelling reports and use Clojure to publish your findings to the Web What You Will Learn Read data from a variety of data formats Transform data to make it more useful and easier to analyze Process data concurrently and in parallel for faster performance Harness multiple computers to analyze big data Use powerful data analysis libraries such as Incanter Hadoop and Weka to get things done quickly Apply powerful clustering and data mining techniques to better understand your data Downloading the example code for this book You can download the example code files for all Packt books you have purchased from your account at <http://www.PacktPub.com> If you purchased this book elsewhere you can visit <http://www.PacktPub.com> support and register to have the files emailed directly to you

Clojure for Data Science Henry Garner, 2015-09-03 Statistics big data and machine learning for Clojure programmers About This Book Write code using Clojure to harness the power of your data Discover the libraries and frameworks that will help you succeed A practical guide to understanding how the Clojure programming language can be used to derive insights from data Who This Book Is For This book is aimed at developers who are already productive in Clojure but who are overwhelmed by the breadth and depth of understanding required to be effective in the field of data science Whether you're tasked with delivering a specific analytics project or simply suspect that you could be deriving more value from your data this book will

inspire you with the opportunities and inform you of the risks that exist in data of all shapes and sizes What You Will Learn

- Perform hypothesis testing and understand feature selection and statistical significance to interpret your results with confidence
- Implement the core machine learning techniques of regression classification clustering and recommendation
- Understand the importance of the value of simple statistics and distributions in exploratory data analysis
- Scale algorithms to web sized datasets efficiently using distributed programming models on Hadoop and Spark
- Apply suitable analytic approaches for text graph and time series data
- Interpret the terminology that you will encounter in technical papers
- Import libraries from other JVM languages such as Java and Scala
- Communicate your findings clearly and convincingly to nontechnical colleagues

In DetailThe term data science has been widely used to define this new profession that is expected to interpret vast datasets and translate them to improved decision making and performance Clojure is a powerful language that combines the interactivity of a scripting language with the speed of a compiled language Together with its rich ecosystem of native libraries and an extremely simple and consistent functional approach to data manipulation which maps closely to mathematical formula it is an ideal practical and flexible language to meet a data scientist s diverse needs Taking you on a journey from simple summary statistics to sophisticated machine learning algorithms this book shows how the Clojure programming language can be used to derive insights from data Data scientists often forge a novel path and you ll see how to make use of Clojure s Java interoperability capabilities to access libraries such as Mahout and Mlib for which Clojure wrappers don t yet exist Even seasoned Clojure developers will develop a deeper appreciation for their language s flexibility You ll learn how to apply statistical thinking to your own data and use Clojure to explore analyze and visualize it in a technically and statistically robust way You can also use Incanter for local data processing and ClojureScript to present interactive visualisations and understand how distributed platforms such as Hadoop sand Spark s MapReduce and GraphX s BSP solve the challenges of data analysis at scale and how to explain algorithms using those programming models Above all by following the explanations in this book you ll learn not just how to be effective using the current state of the art methods in data science but why such methods work so that you can continue to be productive as the field evolves into the future

Style and approachThis is a practical guide to data science that teaches theory by example through the libraries and frameworks accessible from the Clojure programming language

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

Clojure Programming Chas Emerick,Brian Carper,Christophe Grand,2012-03-30 Clojure is

a practical general purpose language that offers expressivity rivaling other dynamic languages like Ruby and Python while seamlessly taking advantage of Java libraries services and all of the resources of the JVM ecosystem This book helps you learn the fundamentals of Clojure with examples relating it to the languages you know already in the domains and topics you work with every day See how this JVM language can help eliminate unnecessary complexity from your programming practice and open up new options for solving the most challenging problems Clojure Programming demonstrates the language s flexibility by showing how it can be used for common tasks like web programming and working with databases up through more demanding applications that require safe effective concurrency and parallelism data analysis and more This in depth look helps tie together the full Clojure development experience from how to organize your project and an introduction to Clojure build tooling to a tutorial on how to make the most of Clojure s REPL during development and how to deploy your finished application in a cloud environment Learn how to use Clojure while leveraging your investment in the Java platform Understand the advantages of Clojure as an efficient Lisp for the JVM See how Clojure is used today in several practical domains Discover how Clojure eliminates the need for many verbose and complicated design patterns Deploy large or small web applications to the cloud with Clojure

Clojure Data Structures and Algorithms Cookbook Rafik

Naccache,2015-08-19 25 recipes to deeply understand and implement advanced algorithms in ClojureAbout This Book Explore various advanced algorithms and learn how they are used to address many real world computing challenges Construct elegant solutions using impressive techniques including zippers parsing and pattern matching Solve complex problems by adopting innovative approaches such as logic or asynchronous programmingIn DetailData structures and algorithms often cross your path when you compress files compile programs access databases or simply use your favourite text editor Understanding and implementing them can be daunting Curious learners and industrial developers can find these complex especially if they focus on the detailed implementation of these data structures Clojure is a highly pragmatic and expressive language with efficient and easy data manipulation capabilities As such it is great for implementing these algorithms By abstracting away a great share of the unnecessary complexity resulting from implementation Clojure and its contrib libraries will help you address various algorithmic challenges making your data exploration both profitable and enjoyable Through 25 recipes you ll explore advanced algorithms and data structures well served by a sound Clojure implementation This book opens with an exploration of alternative uses of the array data structure covering LZ77 compression drawing fractals using Pascal s triangles simulating a multi threaded program execution and implementing a call stack winding and un winding operations The book elaborates on linked lists showing you how to construct doubly linked ones speed up search times over the elements of such structures use a linked list as the foundation of a shift reduce parser and implement an immutable linked list using skew binary numbers representation After that the tree data structure is explored focusing on building self balancing Splay Trees designing a B Tree backing up an efficient key value data store

constructing an undo capable Rope and showing how Tries can make for an auto completing facility Next some optimization and machine learning techniques are discussed namely for building a co occurrence based recommendation engine using branch and bound to optimize integral cost and profit problems using Dijkstra s algorithm to determine optimal paths and summarizing texts using the LexRank algorithm Particular attention is given to logic programming you will learn to use this to discover interesting relations between social website data by designing a simple type inferencer for a mini Java like language and by building a simple checkers game engine Asynchronous programming will be addressed and you will design a concurrent web crawler an interactive HTML5 game and an online taxi booking platform Finally you ll explore advanced cases for higher order functions in Clojure while implementing a recursive descent parser using efficient mutual recursion devising a mini reusable firewall simulator thanks to Clojure 1 7 new transducers feature or building a simple unification engine with the help of Continuation Passing Style What You Will Learn Explore alternative uses of classical data structures like arrays and linked lists Discover advanced types of tree data structures Explore advanced machine learning and optimization techniques Utilise powerful Clojure libraries such as Instaparse for parsing core match for pattern matching clojure zip for zippers and clojure matrix for matrix operations Learn logic programming through the usage of the library core logic Master asynchronous programming using the core async library See the transducers in action while resolving real world use cases Who This Book Is For If you are an experienced Clojure developer longing to take your knowledge to the next level by discovering and using advanced algorithms and seeing how they can be applied to real world problems then this book is for you Style and approach This book consists of a set of step by step recipes each demonstrating the material covered in action so it is put in context When necessary pointers to further resources are provided

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Mastering Clojure Data Analysis Introduction

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