Clojure Data Analysis Cookbook 2nd Edition Eric Rochester

Quick answers to common problems

Clojure Data Analysis Cookbook

Second Edition

Dive into data analysis with Clojure through over 100 practical recipes for every stage of the analysis and collection process

Eric Rochester

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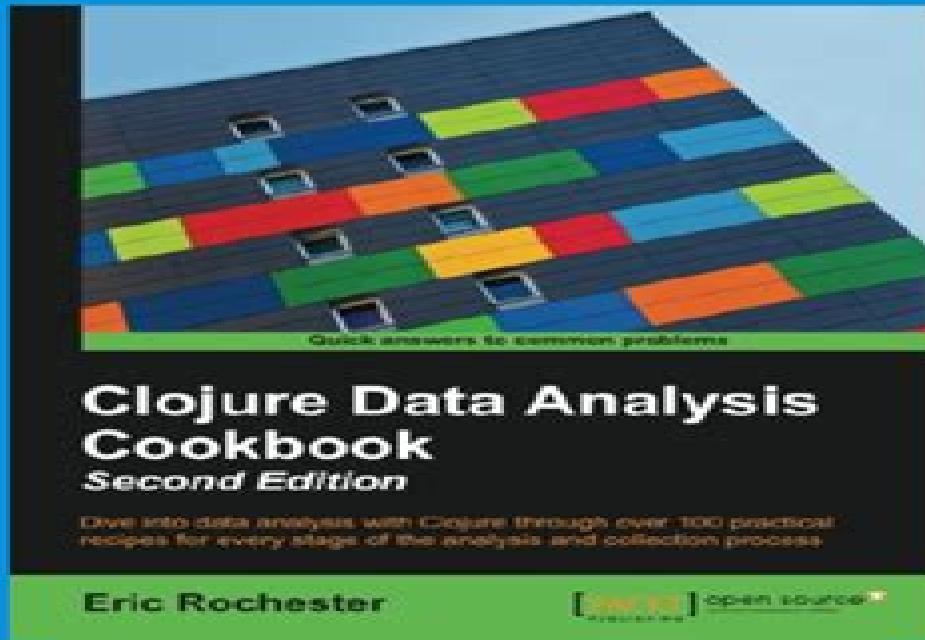
Clojure Data Analysis Cookbook Second Edition

Shantanu Kumar

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   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 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 e mailed directly to you   **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,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 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 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 resucrsion devising a mini resusable firewall simulator thanks to Clojure 1 7 new tansducers 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 casesWho This Book Is ForIf 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 approachThis 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   *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

Clojure Cookbook Luke VanderHart,2014 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 u2019 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 u2019 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 testingClojure Cookbook is a collaborative project with contributions from some of the world u2019 s best Clojurians whose backgrounds range from aerospace to social media banking to robotics AI research to e commerce   **Clojure in Action** Amit Rathore,2015-12-16 Summary A fully revised edition that covers the new features available in Clojure 1 6 Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Clojure is a modern Lisp for the JVM It has the strengths you expect first class functions macros and Lisp s clean programming style It supports functional programming making it ideal for concurrent programming and for creating domain specific languages Clojure lets you solve harder problems make faster changes and end up with a smaller code base It s no wonder that there are so many Clojure success stories About the Book Clojure in Action Second Edition is an expanded and improved version that s been updated to cover the new features of Clojure 1 6 The

book gives you a rapid introduction to the Clojure language moving from abstract theory to practical examples You ll start by learning how to use Clojure as a general purpose language Next you ll explore Clojure s efficient concurrency model based on the database concept of Software Transactional Memory STM You ll gain a new level of productivity through Clojure DSLs that can run on the JVM Along the way you ll learn countless tips tricks and techniques for writing smaller safer and faster code What s Inside Functional programming basics Metaprogramming with Clojure s macros Interoperating with Java Covers Clojure 1 6 About the Reader Assumes readers are familiar with a programming language like C Java Ruby or Python Table of Contents Introducing Clojure Clojure elements Data structures and functions Building blocks of Clojure Multimethod polymorphism Exploring Clojure and Java interop State and the concurrent world Evolving Clojure through macros More on functional programming Protocols records and types Test driven development and more More macros and DSL **Clojure High Performance Programming** Shantanu Kumar,2013 *Clojure Programming Cookbook* Makoto Hashimoto,Nicolas Modrzyk,2016-10-28 Handle every problem you come across in the world of Clojure programming with this expert collection of recipes About This Book Discover a wide variety of practical cases and real world techniques to enhance your productivity with Clojure Learn to resolve the everyday issues you face with a functional mindset using Clojure You will learn to write highly efficient more productive and error free programs without the risk of deadlocks and race conditions Who This Book Is For This book is for Clojure developers who have some Clojure programming experience and are well aware of their shortcomings If you want to learn to tackle common problems become an expert and develop a solid skill set then this book is for you What You Will Learn Manipulate access filter and transform your data with Clojure Write efficient parallelized code through Clojure abstractions Tackle Complex Concurrency easily with Reactive Programming Build on Haskell abstractions to write dynamic functional tests Write AWS Lambda functions effortlessly Put Clojure in use into your IoT devices Use Clojure with Slack for instant monitoring Scaling your Clojure application using Docker Develop real time system interactions using MQTT and websockets In Detail When it comes to learning and using a new language you need an effective guide to be by your side when things get rough For Clojure developers these recipes have everything you need to take on everything this language offers This book is divided into three high impact sections The first section gives you an introduction to live programming and best practices We show you how to interact with your connections by manipulating transforming and merging collections You ll learn how to work with macros protocols multi methods and transducers We ll also teach you how to work with languages such as Java and Scala The next section deals with intermediate level content and enhances your Clojure skills here we ll teach you concurrency programming with Clojure for high performance We will provide you with advanced best practices tips on Clojure programming and show you how to work with Clojure while developing applications In the final section you will learn how to test deploy and analyze websocket behavior when your app is deployed in the cloud Finally we will take you through DevOps Developing with Clojure has never been easier with these recipes by your side Style

and approach This book takes a recipe based approach by diving directly into helpful programming concepts It will give you a foolproof approach to programming and teach you how to deal with problems that may arise while working with Clojure The book is divided into three sections giving you the freedom skip to the section of your choice depending on the problem faced

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 **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   *Python Machine Learning Cookbook* Giuseppe Ciaburro,Prateek Joshi,2019-03-30 Discover powerful ways to effectively solve real world machine learning problems using key libraries including scikit learn TensorFlow and PyTorch Key FeaturesLearn and implement machine learning algorithms in a variety of real life scenariosCover a range of tasks catering to supervised unsupervised and reinforcement learning techniquesFind easy to follow code solutions for tackling common and not so common challengesBook Description This eagerly anticipated second edition of the popular Python Machine Learning Cookbook will enable you to adopt a fresh approach to dealing with real world machine learning and deep learning tasks With the help of over 100 recipes you will learn to build powerful machine learning applications using modern libraries from the Python ecosystem The book will also guide you on how to implement various machine learning algorithms for classification clustering and recommendation engines using a recipe based approach With emphasis on practical solutions dedicated sections in the book will help you to apply supervised and unsupervised learning techniques to real world problems Toward the concluding chapters you will get to grips with recipes that teach you advanced techniques including reinforcement learning deep neural networks and automated machine learning By the end of this book you will be

equipped with the skills you need to apply machine learning techniques and leverage the full capabilities of the Python ecosystem through real world examples What you will learnUse predictive modeling and apply it to real world problemsExplore data visualization techniques to interact with your dataLearn how to build a recommendation engineUnderstand how to interact with text data and build models to analyze itWork with speech data and recognize spoken words using Hidden Markov ModelsGet well versed with reinforcement learning automated ML and transfer learningWork with image data and build systems for image recognition and biometric face recognitionUse deep neural networks to build an optical character recognition systemWho this book is for This book is for data scientists machine learning developers deep learning enthusiasts and Python programmers who want to solve real world challenges using machine learning techniques and algorithms If you are facing challenges at work and want ready to use code solutions to cover key tasks in machine learning and the deep learning domain then this book is what you need Familiarity with Python programming and machine learning concepts will be useful **Clojure for Data Science** Henry Garner,2015-09-03 Statistics big data and machine learning for Clojure programmersAbout 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 dataWho This Book Is ForThis 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 colleaguesIn 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 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 approachThis is a practical guide to data science that teaches theory by example through the libraries and frameworks accessible from the Clojure programming language *Numpy Cookbook - Second Edition* Ivan Idris,2015-04-30 **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 *Practical Data Science Cookbook* Tony Ojeda,2014-09-25 If you are an aspiring data scientist who wants to learn data science and numerical programming concepts through hands on real world project examples this is the book for you Whether you are brand new to data science or you are a seasoned expert you will benefit from learning about the structure of data science projects the steps in the data science pipeline and the programming examples presented in this book Since the book is formatted to walk you through the projects with examples and explanations along the way no prior programming experience is required Haskell Data Analysis Cookbook Nishant Shukla,2014-01-01 Step by step recipes filled with practical code samples and engaging examples demonstrate Haskell in practice and then the concepts behind the code This book shows functional developers and analysts how to leverage their existing knowledge of Haskell specifically for high quality data analysis A good understanding of data sets and functional programming is assumed *Python Data Analysis Cookbook* Ivan Idris,2016-07-22

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In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Clojure Data Analysis Cookbook Second Edition**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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