



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 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

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 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

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 unwinding 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

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 to 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 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

TIBCO Spotfire - A Comprehensive Primer Michael Phillips,2015-02-19 If you are a business user or data professional this book will give you a solid grounding in the use of TIBCO Spotfire This book assumes no prior knowledge of Spotfire or even basic data and visualization concepts

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

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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 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

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Python Data Analysis Cookbook Ivan Idris, 2016-07-22 **Clojure Programming** Chas Emerick, Brian Carper, Christophe Grand, 2012-04-12 The Clojure language offers a practical alternative for solving demanding problems using existing Java libraries frameworks and services Readers get a solid grounding in Clojure fundamentals based on the

environments they are already familiar with whether working with data concurrency application interfaces or other challenges

Clojure 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 and 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 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 **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 **Scala Data Analysis Cookbook** Arun Manivannan, 2015-10-30 Navigate the world of data analysis visualization and machine learning with over 100 hands on Scala recipes About This Book

Implement Scala in your data analysis using features from Spark Breeze and Zeppelin Scale up your data analytics infrastructure with practical recipes for Scala machine learning Recipes for every stage of the data analysis process from reading and collecting data to distributed analytics Who This Book Is For This book shows data scientists and analysts how to leverage their existing knowledge of Scala for quality and scalable data analysis What You Will Learn Familiarize and set up the Breeze and Spark libraries and use data structures Import data from a host of possible sources and create dataframes from CSV Clean validate and transform data using Scala to pre process numerical and string data Integrate quintessential machine learning algorithms using Scala stack Bundle and scale up Spark jobs by deploying them into a variety of cluster managers Run streaming and graph analytics in Spark to visualize data enabling exploratory analysis In Detail This book will introduce you to the most popular Scala tools libraries and frameworks through practical recipes around loading manipulating and preparing your data It will also help you explore and make sense of your data using stunning and insightful visualizations and machine learning toolkits Starting with introductory recipes on utilizing the Breeze and Spark libraries get to grips with how to import data from a host of possible sources and how to pre process numerical string and date data Next you ll get an understanding of concepts that will help you visualize data using the Apache Zeppelin and Bokeh bindings in Scala enabling exploratory data analysis is discover how to program quintessential machine learning algorithms using Spark ML library Work through steps to scale your machine learning models and deploy them into a standalone cluster EC2 YARN and Mesos Finally dip into the powerful options presented by Spark Streaming and machine learning for streaming data as well as utilizing Spark GraphX Style and approach This book contains a rich set of recipes that covers the full spectrum of interesting data analysis tasks and will help you revolutionize your data analysis skills using Scala and Spark

Haskell Data Analysis Cookbook Nishant Shukla, 2014-06-30

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