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# Clojure Data Analysis Cookbook

*Second Edition*

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recipes for every stage of the analysis and collection process

Eric Rochester

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# Clojure Data Analysis Cookbook Rochester Eric

**Chas Emerick, Brian Carper, Christophe  
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## **Clojure Data Analysis Cookbook Rochester Eric:**

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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's 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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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

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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,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 [\*\*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

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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 recipesAbout This Book

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

The Enigmatic Realm of **Clojure Data Analysis Cookbook Rochester Eric**: Unleashing the Language is Inner Magic

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