Mastering RStudio — Develop, Communicate, and Collaborate with R

Harness the power of RStudio to create web applications, R packages, markdown reports and pretty data visualizations

Julian Hillebrand
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Mastering RStudio - Develop, Communicate, and Collaborate with R Julian Hillebrand,Maximilian H. Nierhoff,2015 Harness the power of RStudio to create web applications R packages markdown reports and pretty data visualizationsAbout This Book Discover the multi functional use of RStudio to support your daily work with R code Learn to create stunning meaningful and interactive graphs and learn to embed them into easy communicable reports using multiple R packages Develop your own R packages and Shiny web apps to share your knowledge and collaborate with othersWho This Book Is ForThis book is aimed at R developers and analysts who wish to do R statistical development while taking advantage of RStudio s functionality to ease their development efforts R programming experience is assumed as well as being comfortable with R s basic structures and a number of functions What You Will Learn Discover the RStudio IDE and details about the user interface Communicate your insights with R Markdown in static and interactive ways Learn how to use different graphic systems to visualize your data Build interactive web applications with the Shiny framework to present and share your results Understand the process of package development and assemble your own R packages Easily collaborate with other people on your projects by using Git and GitHub Manage the R environment for your organization with RStudio and Shiny server Apply your obtained knowledge about RStudio and R development to create a real world dashboard solutionIn DetailRStudio helps you to manage small to large projects by giving you a multi functional integrated development environment combined with the power and flexibility of the R programming language which is becoming the bridge language of data science for developers and analyst worldwide Mastering the use of RStudio will help you to solve real world data problems This book begins by guiding you through the installation of RStudio and explaining the user interface step by step From there the next logical step is to use this knowledge to improve your data analysis workflow We will do this by building up our toolbox to create interactive reports and graphs or even web applications with Shiny To collaborate with others we will explore how to use Git and GitHub with RStudio and how to build your own packages to ensure top quality results Finally we put it all together in an interactive dashboard written with R Style and approachAn easy to follow guide full of hands on examples to master RStudio Beginning from explaining the basics each topic is explained with a lot of details for every feature

Mastering RStudio – Develop, Communicate, and Collaborate with R Julian Hillebrand,Maximilian H. Nierhoff,2015-12-04 Harness the power of RStudio to create web applications R packages markdown reports and pretty data visualizations About This Book Discover the multi functional use of RStudio to support your daily work with R code Learn to create stunning meaningful and interactive graphs and learn to embed them into easy communicable reports using multiple R packages Develop your own R packages and Shiny web apps to share your knowledge and collaborate with others Who This Book Is For This book is aimed at R developers and analysts who wish to do R statistical development while taking advantage of RStudio s functionality to ease their development efforts R programming experience is assumed as well as being

comfortable with R s basic structures and a number of functions What You Will Learn Discover the RStudio IDE and details about the user interface Communicate your insights with R Markdown in static and interactive ways Learn how to use different graphic systems to visualize your data Build interactive web applications with the Shiny framework to present and share your results Understand the process of package development and assemble your own R packages Easily collaborate with other people on your projects by using Git and GitHub Manage the R environment for your organization with RStudio and Shiny server Apply your obtained knowledge about RStudio and R development to create a real world dashboard solution In Detail RStudio helps you to manage small to large projects by giving you a multi functional integrated development environment combined with the power and flexibility of the R programming language which is becoming the bridge language of data science for developers and analyst worldwide Mastering the use of RStudio will help you to solve real world data problems This book begins by guiding you through the installation of RStudio and explaining the user interface step by step From there the next logical step is to use this knowledge to improve your data analysis workflow We will do this by building up our toolbox to create interactive reports and graphs or even web applications with Shiny To collaborate with others we will explore how to use Git and GitHub with RStudio and how to build your own packages to ensure top quality results Finally we put it all together in an interactive dashboard written with R Style and approach An easy to follow guide full of hands on examples to master RStudio Beginning from explaining the basics each topic is explained with a lot of details for every feature   Introduction to Statistical Computing and Visualization Using R Megha Rathi,2025-05-01 The book provides a foundational guide to statistical computing and visualisation Using R programming with an emphasis on practical data analysis skills that are directly applicable to diverse fields like finance defence health and education It uniquely combines a thorough explanation of basic constructs with advanced topics such as data visualisation statistical modeling and probability making it accessible yet comprehensive for learners across disciplines This approach allows readers not only to build essential R skills but also to apply them to real world scenarios equipping students and professionals from various disciplines with versatile analytical tools It offers a comprehensive yet approachable introduction for students and scholars from various disciplines using R Includes practical and interactive elements such as quizzes coding exercises and hands on projects can provide an engaging and effective learning experience for readers Provides complete code solutions to every problem presented including detailed answers to even the most complex questions Presents case studies that can help contextualize the concepts covered in the book by showing how they are used in specific industries fields or contexts Offers application based practical data analysis with cases in various fields and sectors such as finance healthcare and marketing Focuses on best practices and efficient coding techniques improving productivity and maintainability of R code   *Learn R* Pedro J. Aphalo,2020-07-28 Learning a computer language like R can be either frustrating fun or boring Having fun requires challenges that wake up the learner s curiosity but also provide an emotional reward on overcoming them This book is

designed so that it includes smaller and bigger challenges in what I call playgrounds in the hope that all readers will enjoy their path to R fluency Fluency in the use of a language is a skill that is acquired through practice and exploration Although rarely mentioned separately fluency in a computer programming language involves both writing and reading The parallels between natural and computer languages are many but differences are also important For students and professionals in the biological sciences humanities and many applied fields recognizing the parallels between R and natural languages should help them feel at home with R The approach I use is similar to that of a travel guide encouraging exploration and describing the available alternatives and how to reach them The intention is to guide the reader through the R landscape of 2020 and beyond Features R as it is currently used Few prescriptive rules mostly the author s preferences together with alternatives Explanation of the R grammar emphasizing the R way of doing things Tutoring for programming in the small using scripts The grammar of graphics and the grammar of data described as grammars Examples of data exchange between R and the foreign world using common file formats Coaching for becoming an independent R user capable of both writing original code and solving future challenges What makes this book different from others Tries to break the ice and help readers from all disciplines feel at home with R Does not make assumptions about what the reader will use R for Attempts to do only one thing well guide readers into becoming fluent in the R language Pedro J Aphalo is a PhD graduate from the University of Edinburgh and is currently a lecturer at the University of Helsinki A plant biologist and agriculture scientist with a passion for data electronics computers and photography in addition to plants Dr Aphalo has been a user of R for 25 years He first organized an R course for MSc students 18 years ago and is the author of 13 R packages currently in CRAN   The Practice of Enterprise Modeling Geert Poels,Frederik Gailly,Estefania Serral Asensio,Monique Snoeck,2017-11-14 This volume constitutes the proceedings of the 10th IFIP WG 8 1 Conference on the Practice of Enterprise Modeling held in November 2017 in Leuven Belgium The conference was created by the International Federation for Information Processing IFIP Working Group 8 1 to offer a forum for knowledge transfer and experience sharing between the academic and practitioner communities The 20 full papers and 4 short papers accepted were carefully reviewed and selected from 70 submissions They include research results practitioner experience reports and work in progress papers and were presented in 8 sessions covering diverse topics related to enterprise modelling and its application in practice   深入理解大数据：R语言开发 李丹丹,2018-08-01

Mastering Apache Cassandra 3.x Aaron Ploetz,Tejaswi Malepati,Nishant Neeraj,2018-10-31 Build manage and configure high performing reliable NoSQL database for your applications with Cassandra Key FeaturesWrite programs more efficiently using Cassandra s features with the help of examplesConfigure Cassandra and fine tune its parameters depending on your needsIntegrate Cassandra database with Apache Spark and build strong data analytics pipelineBook Description With ever increasing rates of data creation the demand for storing data fast and reliably becomes a need Apache Cassandra is the perfect choice for building fault tolerant and scalable databases Mastering Apache Cassandra 3 x teaches you how to build

and architect your clusters configure and work with your nodes and program in a high throughput environment helping you understand the power of Cassandra as per the new features Once you ve covered a brief recap of the basics you ll move on to deploying and monitoring a production setup and optimizing and integrating it with other software You ll work with the advanced features of CQL and the new storage engine in order to understand how they function on the server side You ll explore the integration and interaction of Cassandra components followed by discovering features such as token allocation algorithm CQL3 vnodes lightweight transactions and data modelling in detail Last but not least you will get to grips with Apache Spark By the end of this book you ll be able to analyse big data and build and manage high performance databases for your application What you will learnWrite programs more efficiently using Cassandra s features more efficientlyExploit the given infrastructure improve performance and tweak the Java Virtual Machine JVM Use CQL3 in your application in order to simplify working with CassandraConfigure Cassandra and fine tune its parameters depending on your needsSet up a cluster and learn how to scale itMonitor a Cassandra cluster in different waysUse Apache Spark and other big data processing toolsWho this book is for Mastering Apache Cassandra 3 x is for you if you are a big data administrator database administrator architect or developer who wants to build a high performing scalable and fault tolerant database Prior knowledge of core concepts of databases is required   *Data Science, Analytics and Machine Learning with R* Luiz Paulo Favero,Patricia Belfiore,Rafael de Freitas Souza,2023-01-23 Data Science Analytics and Machine Learning with R explains the principles of data mining and machine learning techniques and accentuates the importance of applied and multivariate modeling The book emphasizes the fundamentals of each technique with step by step codes and real world examples with data from areas such as medicine and health biology engineering technology and related sciences Examples use the most recent R language syntax with recognized robust widespread and current packages Code scripts are exhaustively commented making it clear to readers what happens in each command For data collection readers are instructed how to build their own robots from the very beginning In addition an entire chapter focuses on the concept of spatial analysis allowing readers to build their own maps through geo referenced data such as in epidemiologic research and some basic statistical techniques Other chapters cover ensemble and uplift modeling and GLMM Generalized Linear Mixed Models estimations both linear and nonlinear Presents a comprehensive and practical overview of machine learning data mining and AI techniques for a broad multidisciplinary audience Serves readers who are interested in statistics analytics and modeling and those who wish to deepen their knowledge in programming through the use of R Teaches readers how to apply machine learning techniques to a wide range of data and subject areas Presents data in a graphically appealing way promoting greater information transparency and interactive learning   **Mastering Parallel Programming with R** Simon R. Chapple,Eilidh Troup,Thorsten Forster,Terence Sloan,2016-05-31 Master the robust features of R parallel programming to accelerate your data science computations About This Book Create R programs that exploit the computational capability of your cloud

platforms and computers to the fullest Become an expert in writing the most efficient and highest performance parallel algorithms in R Get to grips with the concept of parallelism to accelerate your existing R programs Who This Book Is For This book is for R programmers who want to step beyond its inherent single threaded and restricted memory limitations and learn how to implement highly accelerated and scalable algorithms that are a necessity for the performant processing of Big Data No previous knowledge of parallelism is required This book also provides for the more advanced technical programmer seeking to go beyond high level parallel frameworks What You Will Learn Create and structure efficient load balanced parallel computation in R using R s built in parallel package Deploy and utilize cloud based parallel infrastructure from R including launching a distributed computation on Hadoop running on Amazon Web Services AWS Get accustomed to parallel efficiency and apply simple techniques to benchmark measure speed and target improvement in your own code Develop complex parallel processing algorithms with the standard Message Passing Interface MPI using RMPI pbdMPI and SPRINT packages Build and extend a parallel R package SPRINT with your own MPI based routines Implement accelerated numerical functions in R utilizing the vector processing capability of your Graphics Processing Unit GPU with OpenCL Understand parallel programming pitfalls such as deadlock and numerical instability and the approaches to handle and avoid them Build a task farm master worker spatial grid and hybrid parallel R programs In Detail R is one of the most popular programming languages used in data science Applying R to big data and complex analytic tasks requires the harnessing of scalable compute resources Mastering Parallel Programming with R presents a comprehensive and practical treatise on how to build highly scalable and efficient algorithms in R It will teach you a variety of parallelization techniques from simple use of R s built in parallel package versions of lapply to high level AWS cloud based Hadoop and Apache Spark frameworks It will also teach you low level scalable parallel programming using RMPI and pbdMPI for message passing applicable to clusters and supercomputers and how to exploit thousand fold simple processor GPUs through ROpenCL By the end of the book you will understand the factors that influence parallel efficiency including assessing code performance and implementing load balancing pitfalls to avoid including deadlock and numerical instability issues how to structure your code and data for the most appropriate type of parallelism for your problem domain and how to extract the maximum performance from your R code running on a variety of computer systems Style and approach This book leads you chapter by chapter from the easy to more complex forms of parallelism The author s insights are presented through clear practical examples applied to a range of different problems with comprehensive reference information for each of the R packages employed The book can be read from start to finish or by dipping in chapter by chapter as each chapter describes a specific parallel approach and technology so can be read as a standalone   *R Programming for Beginners* Anshuman Mishra,2025-01-09 R Programming for Beginners Unlock the Power of Data is designed as the ultimate guide for those who are new to programming and data analysis Whether you re a student professional or someone just starting their journey with R this book will provide you with

the foundation needed to work confidently with data Through easy to follow explanations practical examples and hands on exercises this book introduces the basic concepts of R programming including its syntax data structures and built in functions You ll learn how to import manipulate and visualize data using R and develop a strong understanding of statistical analysis By the end of this book you will have the skills necessary to solve real world problems using R and be well prepared to dive into more advanced topics or data science projects How to Study This Book 1 Follow the Structure Step by Step Each chapter is designed to build upon the previous one It s essential to go through the chapters sequentially to understand the logical flow of learning Start from the basics and gradually move toward more complex topics 2 Hands On Practice R programming is all about practice Make sure to work through the exercises and examples provided in each chapter Don t just read actively try to write code run it in RStudio and experiment with different commands The more you practice the more comfortable you ll become with R 3 Use the R Help System If you encounter any difficulties or are unsure about a particular function use R s built in help system Each chapter includes tips on how to search for documentation within RStudio or the online R community 4 Learn by Solving Problems After completing each chapter challenge yourself by solving small problems You can find simple datasets online and apply what you ve learned to analyze them or create your own datasets for practice 5 Review and Reflect After finishing each section take a moment to review the key concepts Try explaining them to someone else or write them down in your own words to solidify your understanding Benefits of Studying This Book Solid Foundation in R Programming This book is perfect for beginners and it helps you develop a strong foundational knowledge of R By learning the basics correctly you ll set yourself up for success in more advanced topics in programming and data analysis Practical Hands On Learning Learning programming requires practice and this book emphasizes that With hands on examples and exercises you ll gain experience working with real data making it easier to apply R in real world scenarios Data Science Skills R is one of the most popular programming languages for data analysis statistics and visualization By mastering R through this book you will acquire essential data science skills opening doors to numerous opportunities in fields like business research and technology Understand Data Visualization The book provides detailed coverage of data visualization techniques using R particularly through the ggplot2 package Mastering data visualization is an invaluable skill for anyone working with data and helps communicate insights effectively Boost Confidence in Data Driven Decision Making By learning how to manipulate and analyze data you will develop the ability to make informed data driven decisions Whether you re conducting research making business decisions or pursuing academic goals knowing R will give you the tools to work with data effectively Prepare for Advanced Learning This book serves as a stepping stone to more advanced R programming or data science topics   Mastering Data Analysis with R Gergely Daroczi,2015-09-30 Gain sharp insights into your data and solve real world data science problems with R from data munging to modeling and visualization About This Book Handle your data with precision and care for optimal business intelligence Restructure and transform your data to inform decision making

Packed with practical advice and tips to help you get to grips with data mining Who This Book Is For If you are a data scientist or R developer who wants to explore and optimize your use of R s advanced features and tools this is the book for you A basic knowledge of R is required along with an understanding of database logic What You Will Learn Connect to and load data from R s range of powerful databases Successfully fetch and parse structured and unstructured data Transform and restructure your data with efficient R packages Define and build complex statistical models with glm Develop and train machine learning algorithms Visualize social networks and graph data Deploy supervised and unsupervised classification algorithms Discover how to visualize spatial data with R In Detail R is an essential language for sharp and successful data analysis Its numerous features and ease of use make it a powerful way of mining managing and interpreting large sets of data In a world where understanding big data has become key by mastering R you will be able to deal with your data effectively and efficiently This book will give you the guidance you need to build and develop your knowledge and expertise Bridging the gap between theory and practice this book will help you to understand and use data for a competitive advantage Beginning with taking you through essential data mining and management tasks such as munging fetching cleaning and restructuring the book then explores different model designs and the core components of effective analysis You will then discover how to optimize your use of machine learning algorithms for classification and recommendation systems beside the traditional and more recent statistical methods Style and approach Covering the essential tasks and skills within data science Mastering Data Analysis provides you with solutions to the challenges of data science Each section gives you a theoretical overview before demonstrating how to put the theory to work with real world use cases and hands on examples

   Mastering Scientific Computing with R Paul Gerrard,Radia M. Johnson,2015-01-31 If you want to learn how to quantitatively answer scientific questions for practical purposes using the powerful R language and the open source R tool ecosystem this book is ideal for you It is ideally suited for scientists who understand scientific concepts know a little R and want to be able to start applying R to be able to answer empirical scientific questions Some R exposure is helpful but not compulsory   *Hands-On Programming with R* Garrett Grolemund,2014-06-13 Learn how to program by diving into the R language and then use your newfound skills to solve practical data science problems With this book you ll learn how to load data assemble and disassemble data objects navigate R s environment system write your own functions and use all of R s programming tools RStudio Master Instructor Garrett Grolemund not only teaches you how to program but also shows you how to get more from R than just visualizing and modeling data You ll gain valuable programming skills and support your work as a data scientist at the same time Work hands on with three practical data analysis projects based on casino games Store retrieve and change data values in your computer s memory Write programs and simulations that outperform those written by typical R users Use R programming tools such as if else statements for loops and S3 classes Learn how to write lightning fast vectorized R code Take advantage of R s package system and debugging tools Practice and apply R

programming concepts as you learn them *R for Data Science* Hadley Wickham,Mine Çetinkaya-Rundel,Garrett Grolemund,2023-10-03 Learn how to use R to turn data into insight knowledge and understanding Ideal for current and aspiring data scientists this book introduces you to doing data science with R and RStudio as well as the tidyverse a collection of R packages designed to work together to make data science fast fluent and fun Even if you have no programming experience this updated edition will have you doing data science quickly You ll learn how to import transform and visualize your data and communicate the results And you ll get a complete big picture understanding of the data science cycle and the basic tools you need to manage the details Each section in this edition includes exercises to help you practice what you ve learned along the way Updated for the latest tidyverse best practices new chapters dive deeper into visualization and data wrangling show you how to get data from spreadsheets databases and websites and help you make the most of new programming tools You ll learn how to Visualize create plots for data exploration and communication of results Transform discover types of variables and the tools you can use to work with them Import get data into R and in a form convenient for analysis Program learn R tools for solving data problems with greater clarity and ease Communicate integrate prose code and results with Quarto **Learning RStudio for R Statistical Computing** Mark P. J. Van der Loo,2012-01-01 A practical tutorial covering how to leverage RStudio functionality to effectively perform R Development analysis and reporting with RStudio The book is aimed at R developers and analysts who wish to do R statistical development while taking advantage of RStudio functionality to ease their development efforts Familiarity with R is assumed Those who want to get started with R development using RStudio will also find the book useful Even if you already use R but want to create reproducible statistical analysis projects or extend R with self written packages this book shows how to quickly achieve this using RStudio **RStudio for R Statistical Computing Cookbook** Andrea Cirillo,2016-04-28 Over 50 practical and useful recipes to help you perform data analysis with R by unleashing every native RStudio featureAbout This Book 54 useful and practical tasks to improve working systems Includes optimizing performance and reliability or uptime reporting system management tools interfacing to standard data ports and so on Offers 10 15 real life practical improvements for each user typeWho This Book Is ForThis book is targeted at R statisticians data scientists and R programmers Readers with R experience who are looking to take the plunge into statistical computing will find this Cookbook particularly indispensable What You Will Learn Familiarize yourself with the latest advanced R console features Create advanced and interactive graphics Manage your R project and project files effectively Perform reproducible statistical analyses in your R projects Use RStudio to design predictive models for a specific domain based application Use RStudio to effectively communicate your analyses results and even publish them to a blog Put yourself on the frontiers of data science and data monetization in R with all the tools that are needed to effectively communicate your results and even transform your work into a data productIn DetailThe requirement of handling complex datasets performing unprecedented statistical analysis and providing real time visualizations to businesses

has concerned statisticians and analysts across the globe RStudio is a useful and powerful tool for statistical analysis that harnesses the power of R for computational statistics visualization and data science in an integrated development environment This book is a collection of recipes that will help you learn and understand RStudio features so that you can effectively perform statistical analysis and reporting code editing and R development The first few chapters will teach you how to set up your own data analysis project in RStudio acquire data from different data sources and manipulate and clean data for analysis and visualization purposes You ll get hands on with various data visualization methods using ggplot2 and you will create interactive and multidimensional visualizations with D3 js Additional recipes will help you optimize your code implement various statistical models to manage large datasets perform text analysis and predictive analysis and master time series analysis machine learning forecasting and so on In the final few chapters you ll learn how to create reports from your analytical application with the full range of static and dynamic reporting tools that are available in RStudio so that you can effectively communicate results and even transform them into interactive web applications Style and approachRStudio is an open source Integrated Development Environment IDE for the R platform The R programming language is used for statistical computing and graphics which RStudio facilitates and enhances through its integrated environment This Cookbook will help you learn to write better R code using the advanced features of the R programming language using RStudio Readers will learn advanced R techniques to compute the language and control object evaluation within R functions Some of the contents are Accessing an API with R Substituting missing values by interpolation Performing data filtering activities R Statistical implementation for Geospatial data Developing shiny add ins to expand RStudio functionalities Using GitHub with RStudio Modelling a recommendation engine with R Using R Markdown for static and dynamic reporting Curating a blog through RStudio Advanced statistical modelling with R and RStudio **Reproducible Research with R and R Studio** Christopher Gandrud,2016-07-06 All the Tools for Gathering and Analyzing Data and Presenting Results Reproducible Research with R and RStudio Second Edition brings together the skills and tools needed for doing and presenting computational research Using straightforward examples the book takes you through an entire reproducible research workflow This practical workflow enables you to gather and analyze data as well as dynamically present results in print and on the web New to the Second Edition The rmarkdown package that allows you to create reproducible research documents in PDF HTML and Microsoft Word formats using the simple and intuitive Markdown syntax Improvements to RStudio s interface and capabilities such as its new tools for handling R Markdown documents Expanded knitr R code chunk capabilities The kable function in the knitr package and the texreg package for dynamically creating tables to present your data and statistical results An improved discussion of file organization enabling you to take full advantage of relative file paths so that your documents are more easily reproducible across computers and systems The dplyr magrittr and tidyr packages for fast data manipulation Numerous modifications to R syntax in user created packages Changes to GitHub s and Dropbox s interfaces

Create Dynamic and Highly Reproducible Research This updated book provides all the tools to combine your research with the presentation of your findings It saves you time searching for information so that you can spend more time actually addressing your research questions Supplementary files used for the examples and a reproducible research project are available on the author s website   *Learn RStudio IDE* Matthew Campbell,2019-04-17 Discover how to use the popular RStudio IDE as a professional tool that includes code refactoring support debugging and Git version control integration This book gives you a tour of RStudio and shows you how it helps you do exploratory data analysis build data visualizations with ggplot and create custom R packages and web based interactive visualizations with Shiny In addition you will cover common data analysis tasks including importing data from diverse sources such as SAS files CSV files and JSON You will map out the features in RStudio so that you will be able to customize RStudio to fit your own style of coding Finally you will see how to save a ton of time by adopting best practices and using packages to extend RStudio Learn RStudio IDE is a quick no nonsense tutorial of RStudio that will give you a head start to develop the insights you need in your data science projects What YouWill Learn Quickly effectively and productively use RStudio IDE for building data science applications Install RStudio and program your first Hello World application Adopt the RStudio workflow Make your code reusable using RStudio Use RStudio and Shiny for data visualization projects Debug your code with RStudio Import CSV SPSS SAS JSON and other data Who This Book Is For Programmers who want to start doing data science but don t know what tools to focus on to get up to speed quickly   **R for Data Science** Hadley Wickham,Mine Çetinkaya-Rundel,Garrett Grolemund,2023-06-08 Cover Copyright Table of Contents Preface What You Will Learn How This Book Is Organized What You Won t Learn Big Data Python Julia and Friends Nonrectangular Data Hypothesis Confirmation Prerequisites R RStudio The Tidyverse Other Packages Running R Code Getting Help and Learning More Acknowledgments Online Version Conventions Used in This Book Using Code Examples O Reilly Online Learning How to Contact Us Part I Explore Chapter 1 Data Visualization with ggplot2 Introduction Prerequisites First Steps The mpg Data Frame Creating a ggplot A Graphing Template Exercises Aesthetic Mappings Exercises Common Problems Facets Exercises Geometric Objects Exercises Statistical Transformations Exercises Position Adjustments Exercises Coordinate Systems Exercises The Layered Grammar of Graphics Chapter 2 Workflow Basics Coding Basics What s in a Name Calling Functions Exercises Chapter 3 Data Transformation with dplyr Introduction Prerequisites nycflights13 dplyr Basics Filter Rows with filter Comparisons Logical Operators Missing Values Exercises Arrange Rows with arrange Exercises Select Columns with select Exercises Add New Variables with mutate Useful Creation Functions Exercises Grouped Summaries with summarize Combining Multiple Operations with the Pipe Missing Values Counts Useful Summary Functions Grouping by Multiple Variables Ungrouping Exercises Grouped Mutates and Filters Exercises Chapter 4 Workflow Scripts Running Code RStudio Diagnostics Exercises Chapter 5 Exploratory Data Analysis Introduction Prerequisites Questions Variation Visualizing Distributions   Mastering Machine Learning with R Cory

Lesmeister,2015-10-28 Master machine learning techniques with R to deliver insights for complex projects About This Book Get to grips with the application of Machine Learning methods using an extensive set of R packages Understand the benefits and potential pitfalls of using machine learning methods Implement the numerous powerful features offered by R with this comprehensive guide to building an independent R based ML system Who This Book Is For If you want to learn how to use R s machine learning capabilities to solve complex business problems then this book is for you Some experience with R and a working knowledge of basic statistical or machine learning will prove helpful What You Will Learn Gain deep insights to learn the applications of machine learning tools to the industry Manipulate data in R efficiently to prepare it for analysis Master the skill of recognizing techniques for effective visualization of data Understand why and how to create test and training data sets for analysis Familiarize yourself with fundamental learning methods such as linear and logistic regression Comprehend advanced learning methods such as support vector machines Realize why and how to apply unsupervised learning methods In Detail Machine learning is a field of Artificial Intelligence to build systems that learn from data Given the growing prominence of R a cross platform zero cost statistical programming environment there has never been a better time to start applying machine learning to your data The book starts with introduction to Cross Industry Standard Process for Data Mining It takes you through Multivariate Regression in detail Moving on you will also address Classification and Regression trees You will learn a couple of Unsupervised techniques Finally the book will walk you through text analysis and time series The book will deliver practical and real world solutions to problems and variety of tasks such as complex recommendation systems By the end of this book you will gain expertise in performing R machine learning and will be able to build complex ML projects using R and its packages Style and approach This is a book explains complicated concepts with easy to follow theory and real world practical applications It demonstrates the power of R and machine learning extensively while highlighting the constraints

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Mastering Rstudio Develop Communicate And Collaborate With R Introduction

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