

Chapter 2 R ggplot2 Examples

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Abstract

This document introduces many examples of R code using the `ggplot2` library to accompany Chapter 2 of the Lock 5 textbook. The primary data set used is from the student survey of this course, but some plots are shown that use textbook data sets.

1 Getting Started

1.1 Installing R, the Lock5Data package, and ggplot2

Install R onto your computer from the CRAN website (cran.r-project.org). CRAN is a repository for all things R. Follow links for your appropriate operating system and install in the normal way.

After installing R, download the `Lock5Data` and `ggplot2` packages. Do this by starting R and then using `install.packages()`. You will need to select a mirror site from which to download these packages. The code will automatically install the packages in the appropriate place on your computer. You only need to do these steps once.

```
install.packages("Lock5Data")
install.packages("ggplot2")
```

1.2 Loading Data into an R Session

To load the *SleepStudy* data set from the textbook, first load the `Lock5Data` library and then use `data()` to load the specific data set.

```
library(Lock5Data)
data(SleepStudy)
```

To load data from files, use either `read.table()` for files where variables are separated by space or `read.csv()` where variables are separated by commas. The former requires a second command to indicate that the file contains a header row. The latter assumes a header row by default.

```
heart = read.table("heart-rate", header = TRUE)
students = read.csv("students.csv")
```

The preferred procedure to avoid typing in long expressions for a path to where the file is is to change the working directory of R to a folder where the data is (or to move the data to where the R session is running). An alternative is to use `file.choose()` in place of the file name. This will open up a window in your operating system you can use to navigate to the desired file.

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Learn R Programming in 24 Hours Alex Nordeen, 2020-10-31 R is a programming language developed is widely used for statistical and graphical analysis It can execute advance machine learning algorithms including earning algorithm linear regression time series statistical inference R programming language is used by Fortune 500 companies and tech bellwethers like Uber Google Airbnb Facebook Apple R provides a data scientist tools and libraries Dplyr to perform the 3 steps of analysis 1 Extract 2 Transform Cleanse 3 Analyze Table of Contents Chapter 1 What is R Programming Language Introduction Basics Chapter 2 How to Download Install R RStudio Anaconda on Mac or Windows Chapter 3 R Data Types Arithmetic Logical Operators with Example Chapter 4 R Matrix Tutorial Create Print add Column Slice Chapter 5 Factor in R Categorical Continuous Variables Chapter 6 R Data Frame Create Append Select Subset Chapter 7 List in R Create Select Elements with Example Chapter 8 R Sort a Data Frame using Order Chapter 9 R Dplyr Tutorial Data Manipulation Join Cleaning Spread Chapter 10 Merge Data Frames in R Full and Partial Match Chapter 11 Functions in R Programming with Example Chapter 12 IF ELSE ELSE IF Statement in R Chapter 13 For Loop in R with Examples for List and Matrix Chapter 14 While Loop in R with Example Chapter 15 apply lapply sapply tapply Function in R with Examples Chapter 16 Import Data into R Read CSV Excel SPSS Stata SAS Files Chapter 17 How to Replace Missing Values NA in R na omit na rm Chapter 18 R Exporting Data to Excel CSV SAS STATA Text File Chapter 19 Correlation in R Pearson Spearman with Matrix Example Chapter 20 R Aggregate Function Summarise Group_by Example Chapter 21 R Select Filter Arrange Pipeline with Example Chapter 22 Scatter Plot in R using ggplot2 with Example Chapter 23 How to make Boxplot in R with EXAMPLE Chapter 24 Bar Chart Histogram in R with Example Chapter 25 T Test in R One Sample and Paired with Example Chapter 26 R ANOVA Tutorial One way Two way with Examples Chapter 27 R Simple Multiple Linear and Stepwise Regression with Example Chapter 28 Decision Tree in R with Example Chapter 29 R Random Forest Tutorial with Example Chapter 30 Generalized Linear Model GLM in R with Example Chapter 31 K means Clustering in R with Example Chapter 32 R Vs Python What s the Difference Chapter 33 SAS vs R What s the Difference

R Visualizations David Gerbing, 2020-04-28 R Visualizations Derive Meaning from Data focuses on one of the two major topics of data analytics data visualization a k a computer graphics In the book major R systems for visualization are discussed organized by topic and not by system Anyone doing data analysis will be shown how to use R to generate any of the basic visualizations with the R visualization systems Further this book introduces the author s lessR system which always can accomplish a visualization with less coding than the use of other systems sometimes dramatically so and also provides accompanying statistical analyses Key Features Presents thorough coverage of the leading R visualization system ggplot2 Gives specific guidance on using base R graphics to attain visualizations of the same quality as those provided by ggplot2 Shows how to create a wide range of data visualizations distributions of categorical and continuous variables many types of scatterplots including with a third variable time series

and maps Inclusion of the various approaches to R graphics organized by topic instead of by system Presents the recent work on interactive visualization in R David W Gerbing received his PhD from Michigan State University in 1979 in quantitative analysis and currently is a professor of quantitative analysis in the School of Business at Portland State University He has published extensively in the social and behavioral sciences with a focus on quantitative methods His lessR package has been in development since 2009 *Python and R for the Modern Data Scientist* Rick J. Scavetta, Boyan Angelov, 2021-06-22

Success in data science depends on the flexible and appropriate use of tools That includes Python and R two of the foundational programming languages in the field This book guides data scientists from the Python and R communities along the path to becoming bilingual By recognizing the strengths of both languages you ll discover new ways to accomplish data science tasks and expand your skill set Authors Rick Scavetta and Boyan Angelov explain the parallel structures of these languages and highlight where each one excels whether it s their linguistic features or the powers of their open source ecosystems You ll learn how to use Python and R together in real world settings and broaden your job opportunities as a bilingual data scientist Learn Python and R from the perspective of your current language Understand the strengths and weaknesses of each language Identify use cases where one language is better suited than the other Understand the modern open source ecosystem available for both including packages frameworks and workflows Learn how to integrate R and Python in a single workflow Follow a case study that demonstrates ways to use these languages together [The Book of R, 2nd Edition](#) Tilman M. Davies, 2025-11-25 This long awaited second edition folds years of updates into its beginner friendly lessons on using R for data and statistical analysis The Book of R is a comprehensive beginner friendly guide to R the world s most popular programming language for statistical analysis Even if you have no programming experience and little more than a grounding in the basics of mathematics you ll find everything you need to begin writing programs in R You ll start with the basics like how to handle data and write simple programs before moving on to more advanced topics like producing statistical summaries of your data and performing tests and modeling You ll even learn how to create impressive data visualizations with R s graphics tools and contributed packages like ggplot2 ggvis and rgl Dozens of hands on exercises take you from theory to practice as you learn The fundamentals of programming in R including how to write data frames create functions and use variables statements and loops Statistical concepts like exploratory data analysis probabilities hypothesis tests and regression modeling and how to execute them in R How to access R s thousands of functions libraries and datasets How to draw valid and useful conclusions from your data and create publication quality graphics of your results The Book of R brings both statistics and R to life With clear explanations practical examples and hands on exercises this book opens the door to the evolving world of data analysis New to this edition The entire book has been revised and expanded with nearly 100 pages of new content and exercises You ll find greater coverage of data plots and R graphics guidance on using pipes to string together commands and new ways to read and write external files among many other lessons [Data Science MCQ](#)

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R Graphics Essentials for Great Data Visualization Alboukadel Kassambara,2017-11-14 Data visualization is one of the most important part of data science Many books and courses present a catalogue of graphics but they don t teach you which charts to use according to the type of the data In this book we start by presenting the key graphic systems and packages available in R including R base graphs lattice and ggplot2 plotting systems Next we provide more than 200 practical examples to create great graphics for the right data using either the ggplot2 package and extensions or the traditional R graphics With this book you ll learn How to quickly create beautiful graphics using ggplot2 packages How to properly customize and annotate the plots Type of graphics for visualizing categorical and continuous variables How to add automatically p values to box plots bar plots and alternatives How to add marginal density plots and correlation coefficients to scatter plots Key methods for analyzing and visualizing multivariate data R functions and packages for plotting time series

data How to combine multiple plots on one page to create production quality figures **GGPlot2 Essentials** Alboukadel Kassambara,2019-11-15 GGPlot2 is a powerful and a flexible R package for producing elegant graphics piece by piece It has become a popular package for data visualization This book presents the essentials of ggplot2 to easily create beautiful graphics in R Key features Covers the most important graphic functions Short self contained chapters with practical examples *ggplot2* Hadley Wickham,2009-10-03 Provides both rich theory and powerful applications Figures are accompanied by code required to produce them Full color figures *R in Action, Third Edition* Robert I. Kabacoff,2022-06-28 R is the most powerful tool you can use for statistical analysis This definitive guide smooths R's steep learning curve with practical solutions and real world applications for commercial environments In *R in Action Third Edition* you will learn how to Set up and install R and RStudio Clean manage and analyze data with R Use the ggplot2 package for graphs and visualizations Solve data management problems using R functions Fit and interpret regression models Test hypotheses and estimate confidence Simplify complex multivariate data with principal components and exploratory factor analysis Make predictions using time series forecasting Create dynamic reports and stunning visualizations Techniques for debugging programs and creating packages *R in Action Third Edition* makes learning R quick and easy That's why thousands of data scientists have chosen this guide to help them master the powerful language Far from being a dry academic tome every example you'll encounter in this book is relevant to scientific and business developers and helps you solve common data challenges R expert Rob Kabacoff takes you on a crash course in statistics from dealing with messy and incomplete data to creating stunning visualizations This revised and expanded third edition contains fresh coverage of the new tidyverse approach to data analysis and R's state of the art graphing capabilities with the ggplot2 package About the technology Used daily by data scientists researchers and quants of all types R is the gold standard for statistical data analysis This free and open source language includes packages for everything from advanced data visualization to deep learning Instantly comfortable for mathematically minded users R easily handles practical problems without forcing you to think like a software engineer About the book *R in Action Third Edition* teaches you how to do statistical analysis and data visualization using R and its popular tidyverse packages In it you'll investigate real world data challenges including forecasting data mining and dynamic report writing This revised third edition adds new coverage for graphing with ggplot2 along with examples for machine learning topics like clustering classification and time series analysis What's inside Clean manage and analyze data Use the ggplot2 package for graphs and visualizations Techniques for debugging programs and creating packages A complete learning resource for R and tidyverse About the reader Requires basic math and statistics No prior experience with R needed About the author Dr Robert I Kabacoff is a professor of quantitative analytics at Wesleyan University and a seasoned data scientist with more than 20 years of experience Table of Contents PART 1 GETTING STARTED 1 Introduction to R 2 Creating a dataset 3 Basic data management 4 Getting started with graphs 5 Advanced data management PART 2

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Visualizing Data in R 4 Margot Tollefson, 2021-06-17 Master the syntax for working with R's plotting functions in graphics and stats in this easy reference to formatting plots The approach in *Visualizing Data in R 4* toward the application of formatting in ggplot will follow the structure of the formatting used by the plotting functions in graphics and stats This book will take advantage of the new features added to R 4 where appropriate including a refreshed color palette for charts Cairo graphics with more fonts symbols and improved performance from grid graphics including ggplot 2 rendering speed *Visualizing Data in R 4* starts with an introduction and then is split into two parts and six appendices Part I covers the function plot and the ancillary functions you can use with plot You'll also see the functions par and layout providing for multiple plots on a page Part II goes over the basics of using the functions qplot and ggplot in the package ggplot2 The default plots generated by the functions qplot and ggplot give more sophisticated looking plots than the default plots done by plot and are easier to use but the function plot is more flexible Both plot and ggplot allow for many layers to a plot The six appendices will cover plots for contingency tables plots for continuous variables plots for data with a limited number of values functions that generate multiple plots plots for time series analysis and some miscellaneous plots Some of the functions that will be in the appendices include functions that generate histograms bar charts pie charts box plots and heatmaps What You Will Learn Use R to create informative graphics Master plot qplot and ggplot Discover the canned graphics functions in stats and graphics Format plots generated by plot and ggplot Who This Book Is For Those in data science who use R Some prior experience with R or data science is recommended **R Graphs**

Cookbook Second Edition Jaynal Abedin, Hrishi V. Mittal, 2014-10-28 Targeted at those with an existing familiarity with R programming this practical guide will appeal directly to programmers interested in learning effective data visualization techniques with R and a wide range of its associated libraries **Graphing Data with R** John Jay Hilfiger, 2015-10-19 It's

much easier to grasp complex data relationships with a graph than by scanning numbers in a spreadsheet This introductory guide shows you how to use the R language to create a variety of useful graphs for visualizing and analyzing complex data for science business media and many other fields You'll learn methods for highlighting important relationships and trends reducing data to simpler forms and emphasizing key numbers at a glance Anyone who wants to analyze data will find something useful here even if you don't have a background in mathematics statistics or computer programming If you want to examine data related to your work this book is the ideal way to start Get started with R by learning basic commands Build single variable graphs such as dot and pie charts box plots and histograms Explore the relationship between two quantitative

variables with scatter plots high density plots and other techniques Use scatterplot matrices 3D plots clustering heat maps and other graphs to visualize relationships among three or more variables

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

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

R Graphics Cookbook, 2nd Edition Winston Chang, 2018 The updated edition of this practical guide provides more than 150 recipes to help you generate high quality graphs quickly without having to comb through all the details of R s graphing systems Each recipe tackles a specific problem with a solution you can apply to your own project and includes a discussion of how and why the recipe works Most of the recipes in this edition use the updated version of the ggplot2 package a powerful and flexible way to make graphs in R You ll also find expanded content about the visual design of graphics If you have a basic understanding of the R language you re ready to get started With Early Release ebooks you get books in their earliest form the author s raw and unedited content as he or she writes so you can take advantage of these technologies long before the official release of these titles You ll also receive updates when significant changes are made new chapters are available and the final ebook bundle is released

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