

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.

Chapter 2 R Ggplot2 Examples

Padhraic Smyth



Chapter 2 R Ggplot2 Examples:

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Table of Contents Chapter 2 R Ggplot2 Examples

1. Understanding the eBook Chapter 2 R Ggplot2 Examples
 - The Rise of Digital Reading Chapter 2 R Ggplot2 Examples
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 2 R Ggplot2 Examples
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter 2 R Ggplot2 Examples
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 2 R Ggplot2 Examples
 - Personalized Recommendations
 - Chapter 2 R Ggplot2 Examples User Reviews and Ratings
 - Chapter 2 R Ggplot2 Examples and Bestseller Lists

5. Accessing Chapter 2 R Ggplot2 Examples Free and Paid eBooks
 - Chapter 2 R Ggplot2 Examples Public Domain eBooks
 - Chapter 2 R Ggplot2 Examples eBook Subscription Services
 - Chapter 2 R Ggplot2 Examples Budget-Friendly Options
6. Navigating Chapter 2 R Ggplot2 Examples eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 2 R Ggplot2 Examples Compatibility with Devices
 - Chapter 2 R Ggplot2 Examples Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 2 R Ggplot2 Examples
 - Highlighting and Note-Taking Chapter 2 R Ggplot2 Examples
 - Interactive Elements Chapter 2 R Ggplot2 Examples
8. Staying Engaged with Chapter 2 R Ggplot2 Examples
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 2 R Ggplot2 Examples
9. Balancing eBooks and Physical Books Chapter 2 R Ggplot2 Examples
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 2 R Ggplot2 Examples
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chapter 2 R Ggplot2 Examples
 - Setting Reading Goals Chapter 2 R Ggplot2 Examples
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 2 R Ggplot2 Examples
 - Fact-Checking eBook Content of Chapter 2 R Ggplot2 Examples
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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