

Chapter 2 R ggplot2 Examples

Bret Larget

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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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