

Math 300 Lesson 9 Notes

Case Study and Review

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Objectives

1. Read data into R and convert it to tidy format.

Reading

Chapter 4.3 - 4.5

Lesson

Work through the learning checks LC4.4 - LC4.5.

- You can use the GUI to get the code to read the Excel file from the web. Then post the code into your rmarkdown file. Remember, to knit the file it has to read the data into the temporary workspace.

Setup

```
library(dplyr)
library(ggplot2)
library(readr)
library(tidyr)
library(nycflights13)
library(fivethirtyeight)
```

LC 4.4 (Objective 1)

(LC 4.4) Convert the `dem_score` data frame into a tidy data frame and assign the name of `dem_score_tidy` to the resulting long-formatted data frame.

Solution:

LC 4.5 (Objective 1)

(LC 4.5) Read in the life expectancy data stored at https://moderndive.com/data/le_mess.csv and convert it to a tidy data frame.

Solution:

Documenting software

- File creation date: 2022-06-16
- R version 4.1.3 (2022-03-10)
- `ggplot2` package version: 3.3.6
- `tidyr` package version: 1.2.0
- `readr` package version: 2.1.2

- `dplyr` package version: 1.0.9
- `nycflights13` package version: 1.0.2
- `fivethirtyeight` package version: 0.6.2