

Statistics with R – Beginner Level

Practice

Note: If you did not do it already, please download the CSV data files and extract them on your hard drive. You can find the download link in the section *Course Materials*.

Section 4

Building Charts

Exercise #1

In the data file *height.csv*, build histograms for the variables *weight* and *height*. Add also a normal curve to each histogram.

Exercise #2

Build cumulative frequency line charts for the variables *grade1* and *grade2* in the *math.csv* data set.

Exercise #3

Build column charts for the following variables:

- gender and educ, in the *directmail.csv* file
- continent, in the *toyota.csv* file

Exercise #4

Create mean plot charts to represent the following:

- a. the means of the variable *age*, for each education level (file *directmail.csv*)
- b. the means of the variable *weight*, for each gender (file *hw.csv*)

Exercise #5

Build a scatterplot chart to represent the relationship between the variables *grade1* and *grade2* in the *math.csv* file. Add a trend line to the scatterplot and comment whether the points tend to gather around the line.

Exercise #6

Build a scatterplot chart to represent the relationship between the variables *romania* and *unitedstates* in the *gym.csv* file. Add a trend line to the scatterplot and comment whether the points tend to gather around the line.

Exercise #7

Build boxplot charts for the variables *age* and *balance* in the *directmail* data file.

Exercise 8

For the same variables as in exercise #7, build clustered boxplot charts using *gender* and *educ* as grouping variables.

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