Statistics with R – Intermediate 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 1

Tests of Association

Exercise #1

In the data file *mobilenet.csv*, determine whether there is a relationship between the number of hours spent on the Internet and the income, using the Pearson, Spearman and Kendall correlation.

Exercise #2

In the data file *countries.csv*, determine whether there is a relationship between the percentage of people living in cities (*urban*) and the gross domestic product (*gdp*), using the Pearson, Spearman and Kendall correlation.

Exercise #3

In the data file *countries.csv*, compute the correlation between the percentage of people living in cities (*urban*) and the gross domestic product (*gdp*), corrected with the influence of the percentage of people who read (*literacy*).

Exercise #4

In the data file *directmail.csv*, run a chi-square test for association to determine whether there is a relationship between income and education level (*educ*).