

Assignment 2

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Learn to Code

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Exercise Read Data. Create a function for reading data. The task is to understand how data can be represented as file and read in. The function should contain following features:

1. Read line by line
2. Skip potential first n rows
3. Ignore commented rows with '#'
4. Allow several delimiter: white space, tab, comma, semicolon

Use the given R Markdown file for writing your code and use the iris as dataset.

Exercise Write Data. Same as reader only for writing, but allow following two functionalities:

1. Allow user to write a comment within the file of interest, which is displayed before everything else in the file. All comments are denoted with '#'.
#
2. Always include one line after the comment, which is also denoted with '#', which states the number of lines (with values!) written to the file. This should count the number of data rows saved in this particular file and serve as cross check.
#

Use the given R Markdown file for writing your code and use the iris as dataset.

Exercise Process Data. Use your written functions and execute following steps:

1. Read the data with your reader
2. Create statistical summary (you may use built-in functions)
 - (a) Mean
 - (b) Median
 - (c) Min and Max
3. Save the statistics as comment
#
4. Write out the iris dataset with statistics in the comments
#

Use the given R Markdown file for writing your code and use the iris as dataset.