Introduction to R

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InstRuctions

Please create a new R script and name it `assignment1_name.R` replacing `name` by your name. RemembeR:

- Please hand in a script that runs without error.
- R is case sensitive, i.e. `myVariable` and `myvariable` are different objects.
- Abstain from destroying or overwriting any variables in your code.
- Abstain from using the `View()` command in your script submission.

Tasks

Complete the following tasks.

Basic operations

- Create a vector called `myVector` and have it store the integers 1, 2 and 3.

- Create a string called `myName` and have it store your name.

- Please compare `myVector` to `myName` and store the result in `AmIaVector`. Hint: A logical value is expected. Essential logical comparisons in R can be found here https://rpubs.com/pjmurphy/317508.

Built-in Data

- Please load the built-in data set `Titanic` with the `data()` function. Please check the `class()` of Titanic and store it as `Titanic_class`.

- Change the class of Titanic to a data frame and store the result in `Titanic_DF`.

External Data

- Read in the data set called `GF_2020.csv` from the Github repository https://github.com/MarcoKuehne/seminars_in_applied_economics, using the `read.csv()` command, call it `CourseData2020`.

- Please calculate the mean of `Age` of seminar participants in 2020 and store it as `WhyRUsoMean2Me`.

- Please calculate the proportion of female participants in 2020 as percent and store it as `rladies` (side note https://rladies.org/). Hint: A positive decimal number between 0 and 1 is expected.

- How many variables in `CourseData2020` are integers? Store the answer in `NumInt`.

Personal Impressions

- Please let us know your thoughts and emotions with regard to this exercise by choosing an appropriate meme. Store the image URL in `myURL`. Then use the command `download.file(url = myURL, destfile = "NAME.png", mode = 'wb')` replacing `NAME` with your name.