Optional lab session

R Summer Camp 2019 - Day 1

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Indexing

Lab 1: Indexing

What are the dimensions of the class dataset?
Get a subset of the 2nd and 3rd column and the 3rd to 5th row.

Lab 2: Indexing

Calculate the average *shoe size* and average *height* of our participants by using only the function `colMeans()`.

Lab 3: Indexing

How do you have to use the indexing to get the columns of our class dataset in the order *gender*, *height*, *shoe size*, *hair color*?

Lab 4: Indexing

Create a new data frame called *who.is.big* for participants 5 to 10 with only *gender* and *height* as variables. Display the values for females only.

Lab 5: Indexing

Display the *hair color* of the 20% tallest persons.

Dataframes

Lab 6: Dataframes

Using the function `tibble()` create a dataframe from the vectors *height* and *gender* created this morning. Then add *shoe.size* as a third variable to this dataframe.

Lab 7: Dataframes

Let's label our dataframe differently by using `colnames()`. The labels for the columns should read *Var 1* to *Var 5*.
Use `paste()` to accomplish the task.

Importing & packages

Lab 8: Importing

Now look for the downloaded file `example.xlsx`.

1. Import the sheet `mtcars` of this file with the `read_excel()` function from the `readxl` package.
2. Import the sheet `chickwts` to work with the two variables included there.