QTM 150

Week 4 - R Basics III

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Recap

- You now know the main objects in R:
 - Numeric
 - Strings
 - Factors
 - Lists
 - Datasets
- Do you have any questions?
- Great job!!
- **Reminder:** There is a quiz for this class. The quiz is due Monday, 11:59 PM.

Today's Agenda

- Working directory.
- Loading datasets in your computer.
- Working with datasets.
- R Markdown.

Working directory

Working directory

- R usually works within a particular folder in your computer.
- This means that if you want to load a file that it is your computer, you need to:
 - Either find this folder
 - Or change to another folder
- We have two functions for that: getwd() and setwd(). Let's check them out?!
- **Your turn**: change the directory that your computer is working.

Loading datasets in your computer

Loading datasets in your computer

- R comes with example datasets for learning and demonstration purposes.
- To find them, type data(). It will pop up a list of them.
- There are also datasets online that we can use. Check out the class github page:

https://github.com/umbertomig/qtm150

• **Your turn**: Download and open one dataset from Canvas or Github.

Working with datasets

Working with datasets

We can use many functions to get to know our datasets:

```
names(data_set_here)
dim(data_set_here)
summary(data_set_here)
str(data_set_here)
head(data_set_here)
```

• **Your turn**: Load a dataset called USArrests and explore it. Hint: to load this dataset you should do data(USArrests). To learn about it you should run help(USArrests).

Working with datasets

• We can also build some simple plots:

```
hist(data_set_here$variable_here)boxplot(data_set_here$variable_here)plot(data_set$variable_here, data_set$other_var)
```

• Your turn: Make a few plots of the dataset USArrests.

R Markdown

R Markdown

- R Markdown is a way to integrate computer and stats coding with text.
- These slides that you are seeing now were build using *R Markdown*!
- Let's check out my R Markdown?
- **Your turn**: build one R markdown. Using the default template, change your name, add one paragraph, and make one extra plot than the one in the default.

Questions?

Have a great weekend!