Week 2 Tutorial

Maria Prokofieva

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Week 2: Basics of data viz

This week we are getting into data viz with R. We already started working with RMarkdown - which is "file format" to present your data insights and communicate them to stakeholders

A screencast of the tutorial is available here:

Things to cover:

- 1. ggplot2 library: install and start using
- 2.
- 3. Work with 2 types of documents:
- R script
- RMarkdown document.
- how to load libraries
- R syntax and basic functions: BUT

Remember: This is not a programming unit! We focus on data and working with data

What I need to learn:

- work with RMarkdown documents with dataviz
- install and load ggplot2 library
- work with layers in the grammar of gpaphics in ggplot2
- $\bullet\,$ create basics dataviz "shapes": e.g. histograms, line charts, etc. in <code>ggplot2</code>
- use colour in your data viz in ggplot2
- \bullet use themes in ggplot2
- use legends, labels and axes names
- use faceting and present multiple data insights on one data viz

Resources

ggplot2: Elegant Graphics for Data Analysis https://ggplot2-book.org/

RMarkdown: https://rmarkdown.rstudio.com/lesson-1.html

Using data viz in RMarkdown

This tutorial we are going to have a closer look at RMarkdown and put out data viz there

Task

- create an RMarkdown document and select html as output this tells R to create an html document when you knit it (you can later swap it to Word document)
- Look at the structure of the document and syntax used. Locate the following:
- meta-data section R code chuncks text

Homework

Set up your *free* DataCamp account and have a look at the free tutorial Introduction to R they offer. This provides some good insights on the data types you will commonly use in R.