README.pdf

Directory layout

The data camp documents consist of the following six subfolders.

- CheatSheets
- data
- Day1
- Day2
- Day3
- Day4

Please copy the folder **DataCamp** from the network disk **U** to the local disk **C**. Do not Knit the .Rmd files from the network disk **U**.

File formats

- There are three types of files in this data camp.
 - The lectures have file extension .pdf or .html. Please open the .pdf files using Adobe Acrobat Reader and open the .html files using Google Chrome or Microsoft Edge.
 - Each lab has two files: .Rmd and .html. Open the .Rmd files using RStudio. You can try to Knit an .Rmd file to produce the corresponding .html file or run the R code chunks in each .Rmd file.

Path to the data sets

All data sets are stored in the subfolder data. When you run the R code which imports
a data set, change the path if necessary. For example, the path of the data file exam.csv
in the presentation is F:/DataCamp/data/exam.csv. Change the disk name accordingly
such as C:/DataCamp/data/exam.csv if the folder DataCamp is copied to the C disk.

R and RStudio installation

You can install R and RStudio to your own PC/Laptop/MacBook:

- Download and install the latest version of R.
 - Windows: https://cran.r-project.org/bin/windows/base
 - Mac: https://cran.r-project.org/bin/macosx/
- Download and install the latest version of RStudio.
 - https://www.rstudio.com/products/rstudio/download/#download (scroll down to "installers for Supported Platforms")
- For more information about the installation of R and RStudio, see the file RInstallations.pdf.

Installation of R packages

• The following packages are required in this data camp. Open RStudio and install the R packages by typing the following in the **Console**.

```
- install.packages("devtools");
- devtools::install github("wmurphyrd/fiftystater",force=T);
- install.packages("rmarkdown");
- install.packages("readxl");
- install.packages("grDevices");
- install.packages("ggplot2");
- install.packages("lattice");
- install.packages("gridExtra");
- install.packages("car");
- install.packages("GGally");
- install.packages("RColorBrewer");
- install.packages("dplyr");
- install.packages("rgl");
- install.packages("magick");
- install.packages("pdftools");
- install.packages("gapminder");
- install.packages("datasauRus");
- install.packages("maps");
- install.packages("mapproj");
- install.packages("usmap");
- install.packages("rgdal");
- install.packages("leaflet");
- install.packages("nycflights13");
- install.packages("stringr");
- install.packages("ggmap");
- install.packages("corrplot");
- install.packages("mvtnorm");
- install.packages("MASS");
- install.packages("scatterplot3d");
- install.packages("knitr");
```