R Markdown

Instructions

1. Install the latest R[1] (>3.5) and RStudio Desktop[2] (>1.2).
2. Install LaTeX[3]. This is rather big (e.g. MacTeX is approximate 3.9G). If you have never installed LaTeX before, then you are recommended to install via `tinytex` which is much more light-weight. Open R and enter the following commands:

```r
install.packages("tinytex")
tinytex::install_tinytex()
```

3. Install the following packages and its dependencies:

```r
install.packages(c("tidyverse",
                   "rmarkdown",
                   "knitr",
                   "xaringan",
                   "usethis",
                   "rmdformats",
                   "prettydoc",
                   "rticles",
                   "shiny",
                   "bookdown",
                   "pagedown",
                   "yaml",
                   "DT",
                   "linl",
                   "remotes"))
# the following is not on CRAN
remotes::install_github("gadenbuie/xaringanthemer")
remotes::install_github("hadley/emo")
```

4. Make an account at https://rstudio.cloud (it's free). Why? The materials will be hosted here.
5. Make an account at https://rpubs.com (it's also free). Why? Quick publishing for your R Markdown html documents.
6. Make a github account https://github.com (yes free). Why? Connecting to your netlify account.

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[1] https://cran.r-project.org/mirrors.html

[2] https://rstudio.com/products/rstudio/

[3] https://www.latex-project.org/get/

7. Make a netlify account https://app.netlify.com/ connecting with your github account (free!). Why? This is another way to share your R Markdown html documents.
8. Install Google Chrome browser[4] on your laptop. Why? Most of the time any browser is okay but some elements don't load well (especially in Internet Explorer) so this is just a back-up!

Pre-Work

You will get the most out of the workshop if you know some markdown, LaTeX, HTML/CSS and R. Please do these tutorials if you are not familiar or need to brush up with it!

- Markdown tutorial https://www.markdowntutorial.com - 10 minutes tutorial
- LaTeX tutorial https://www.latex-tutorial.com/quick-start/
- HTML/CSS tutorial https://www.codecademy.com/learn/learn-html/modules/learn-html-elements (This is free but you need to sign up)
- Brush up in basic R (http://swirlstats.com) if you need to

On the day

- Bring your laptop (with administrative rights) along with your power cord.

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[4]https://www.google.com/chrome/