

Tidyverse & R Markdown Workshop

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Place

University of Adelaide North Tce Campus, Hughes 322 Teaching Room

Instructions

1. Install the latest R (>3.5) and RStudio Desktop (>1.2).
2. Install LaTeX. 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:

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

3. Install the following packages and its dependencies:

```
install.packages(c("tidyverse", "rmarkdown", "knitr", "rticles",
                  "xaringan", "usethis", "rmdformats", "prettydoc",
                  "linl", "shiny", "bookdown", "pagedown", "plotly", "remotes",
                  "DT", "furrr", "ggrepel", "skimr", "janitor", "colorspace"))
# the following is not on CRAN or development version needed
remotes::install_github("gadenbuie/xaringanthemer")
remotes::install_github("hadley/emo")
remotes::install_github("thomasp85/patchwork")
remotes::install_github("EmilHvitfeldt/paletteer")
remotes::install_github("wilkelab/cowplot")
remotes::install_github("clauswilke/colorblindr")
```

4. Make an account at <https://rstudio.cloud> (it's free).
5. Make an account at <https://rpubs.com> (it's also free).
6. Make a github account <https://github.com> (yes free).
7. Connect a netlify account to your github account <https://app.netlify.com/> (free).
8. Install Google Chrome browser on your laptop.

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 + wifi enabled) along with your power cord.