

Rmarkdown Workshop Info

Installation and Setup

You will need R and RStudio installed. If you want to generate PDF outputs, you also need a LaTeX installation. Best options are MiKTeX or TinyTeX. TinyTeX seems to be more widely recommended for what we are doing. It can be installed following instructions in the link below.

<https://bookdown.org/yihui/rmarkdown-cookbook/install-latex.html>

MiKTeX can be downloaded for Windows or Mac here (<https://miktex.org/>). If you have a mac, there are sometimes additional install steps that need to be done in your terminal. Follow these directions here (<https://miktex.org/howto/modify-path>).

Most of the other tools we will use live in the rmarkdown package. You don't need to explicitly install or load the package as it is already bundled with R Studio (as is Pandocs, used for creating PDF and .docx outputs).

To create an R markdown file from RStudio, click *File > New File > R Markdown*. When prompted by the new file wizard, add a title and an author for the document and select an output format. Best to start with HTML as your output format (this can be changed at any time). Click *OK*. You will now be in your new .Rmd file.

Helpful Links

Rmarkdown Syntax

<https://rstudio.com/wp-content/uploads/2015/02/rmarkdown-cheatsheet.pdf>

https://rmarkdown.rstudio.com/authoring_basics.html

<https://bookdown.org/yihui/rmarkdown/markdown-syntax.html>

<https://rpruim.github.io/s341/S19/from-class/MathinRmd.html>

LaTeX Syntax

<http://www.docs.is.ed.ac.uk/skills/documents/3722/3722-2014.pdf>

<http://wch.github.io/latexsheet/>

Writing with R markdown

References and Styles

Add citations to reports and control citation format

<https://bookdown.org/yihui/rmarkdown-cookbook/bibliography.html>

GitHub repository of .csl files for different citation styles

<https://github.com/citation-style-language/styles>

Presentations and helpful references

https://oliviergimenez.github.io/intro_rmarkdown/#1

Additional Tools

Bookdown

R package for writing articles and books from Rmarkdown

<https://bookdown.org/>

R Shiny

Make interactive documents

<https://beta.rstudioconnect.com/content/2671/Combining-Shiny-R-Markdown.html>

ReDOC

Makes documents 'reversible' from MS word to .Rmd. Current release might be unstable

<https://noamross.github.io/redoc/>