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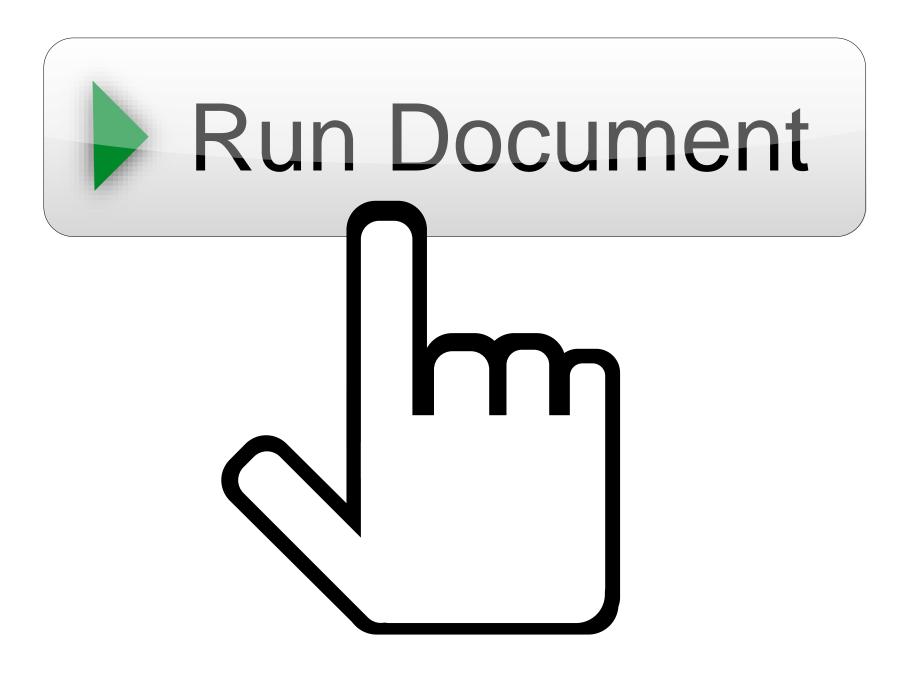


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Welcome...

#### Intro to R Markdown

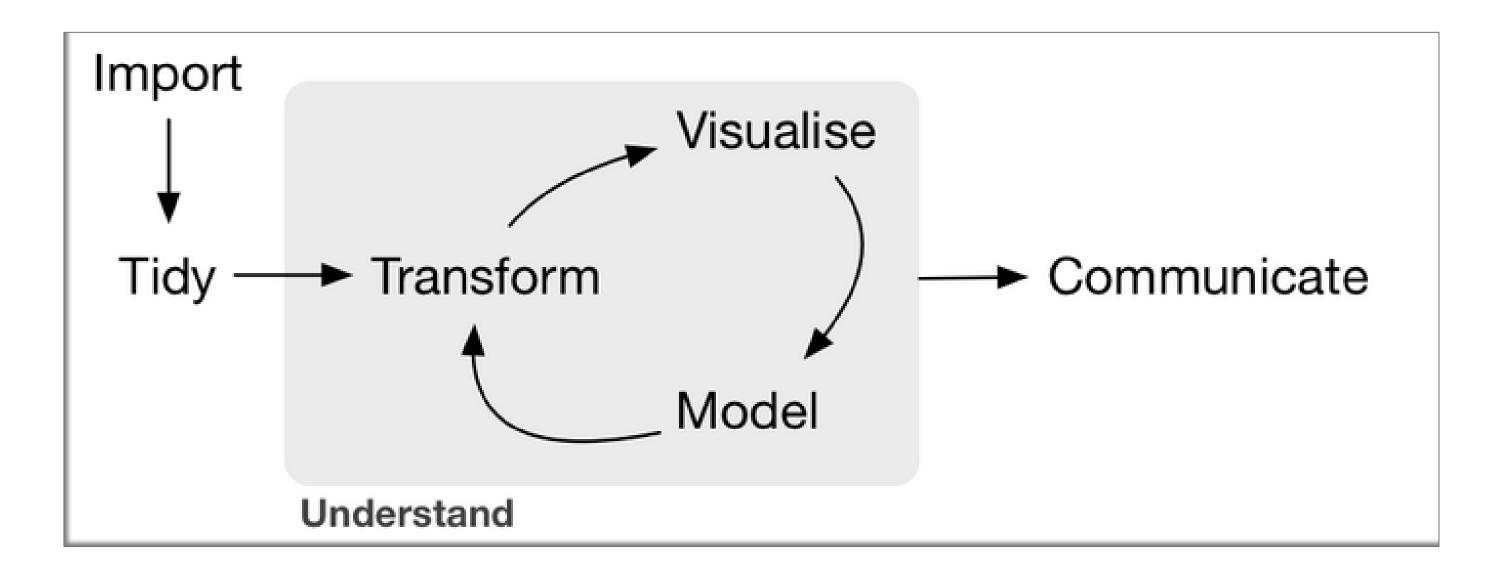
R Studio



Philip Bowsher Aug 2017

HELLO my name is

## Model of the <u>Tools</u> Needed in a Typical Data Science Project:



http://r4ds.had.co.nz/intro.html



### The Mission of Rstudio is...



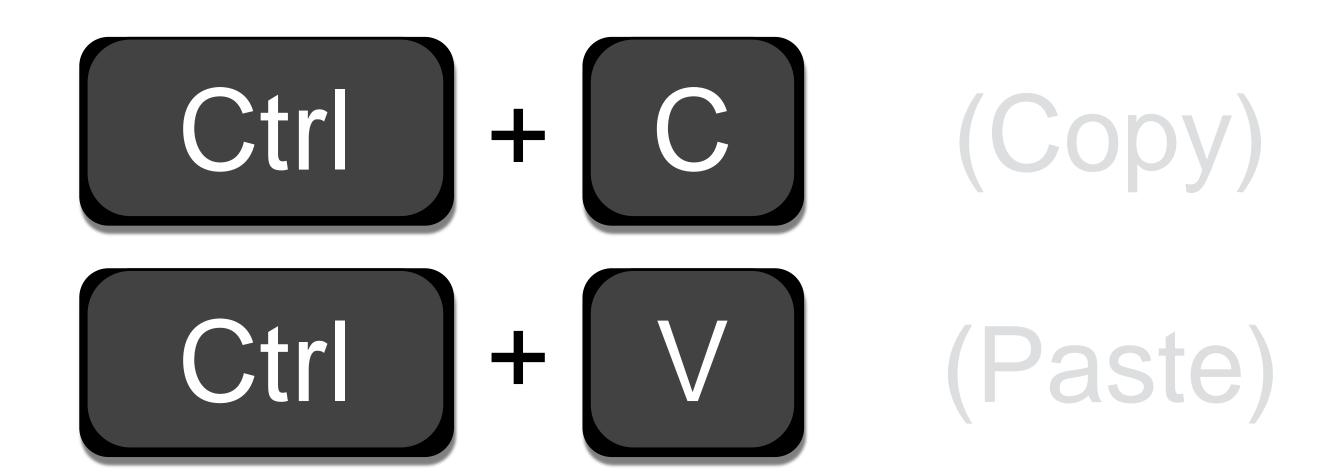
to provide the most widely used open source and enterprise-ready professional software for the R statistical computing environment.

These tools further the cause of equipping everyone, regardless of means, to participate in a global economy that increasingly rewards data literacy.



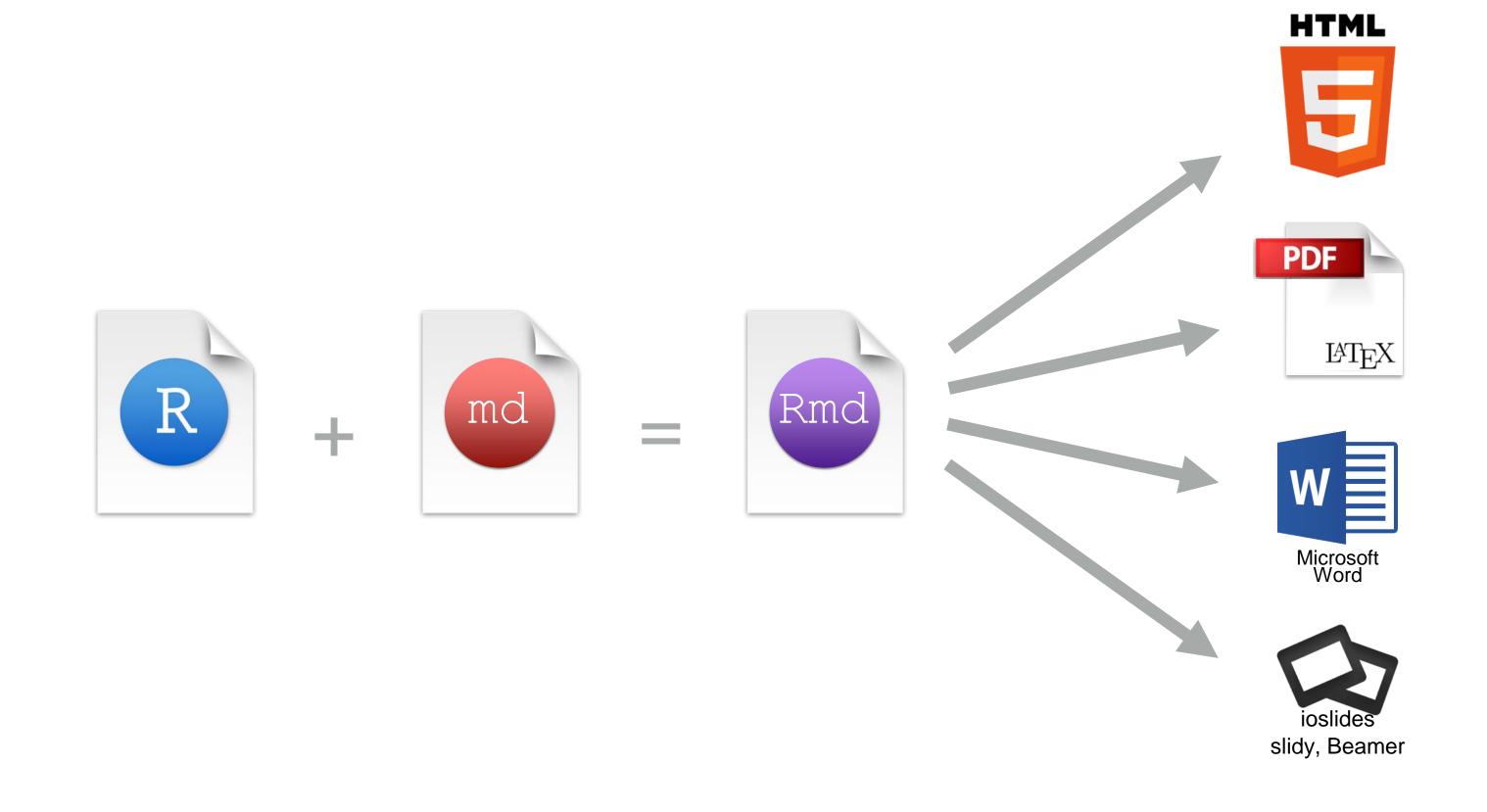
# Reproducible Research RMarkdown

### Can we do better?



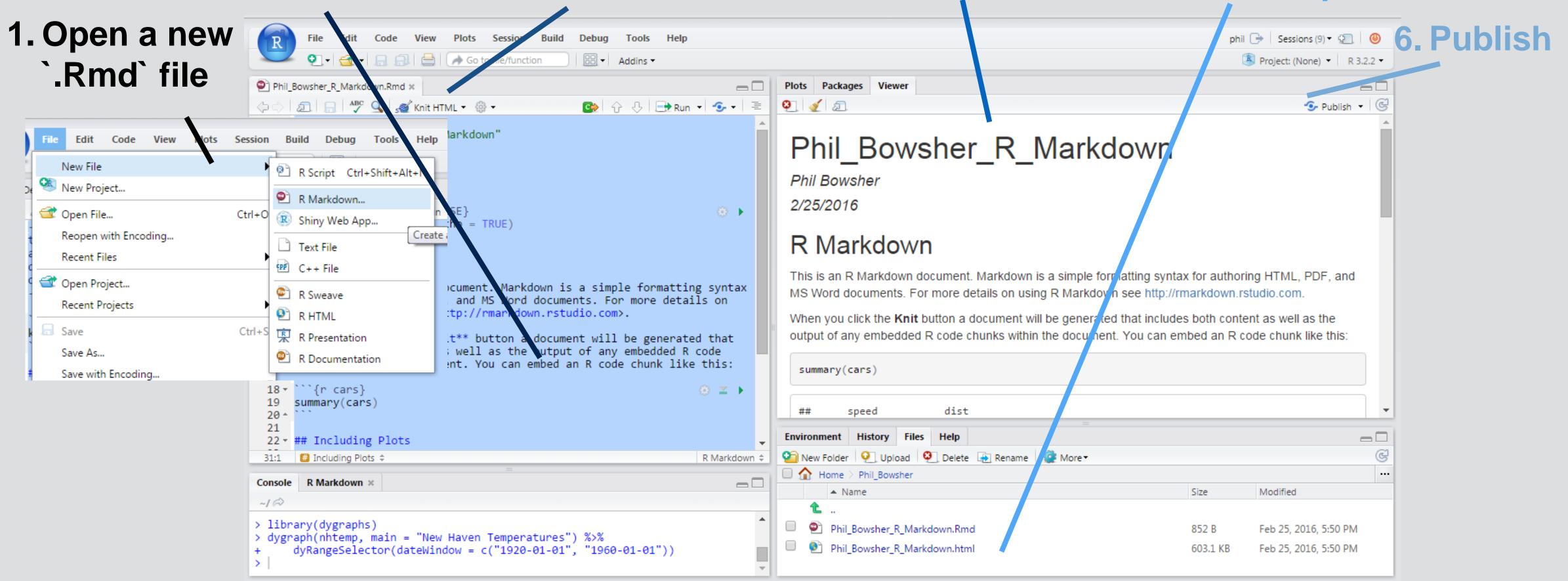


## RMarkdown



## demo

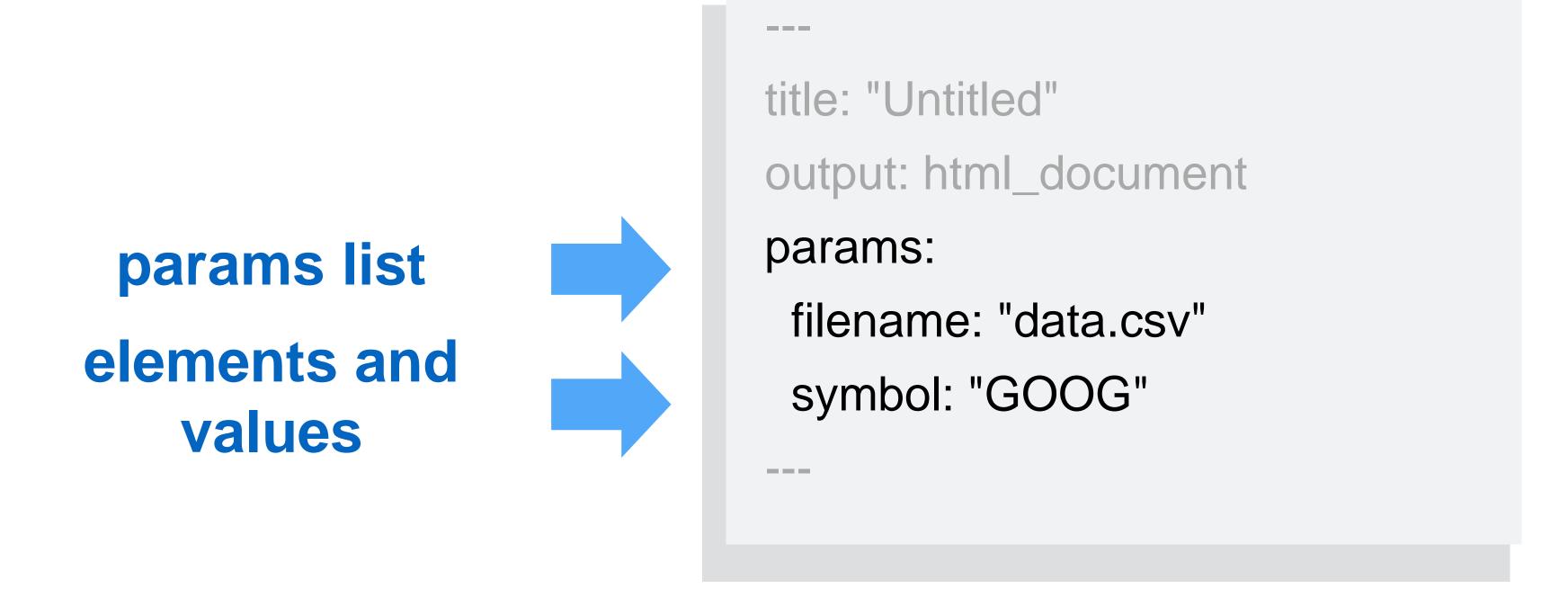
2. Edit text 3. Click "Knit HTML" 4. Preview output 5. Access output file





### Parameters

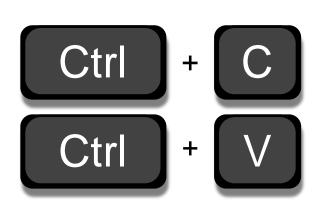
A list of values that you can call in R code chunks



Access as params\$filename and params\$symbol



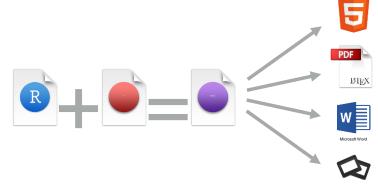
### Recap: R Markdown



Reproducible



Automatic



Flexible



Reusable

params:

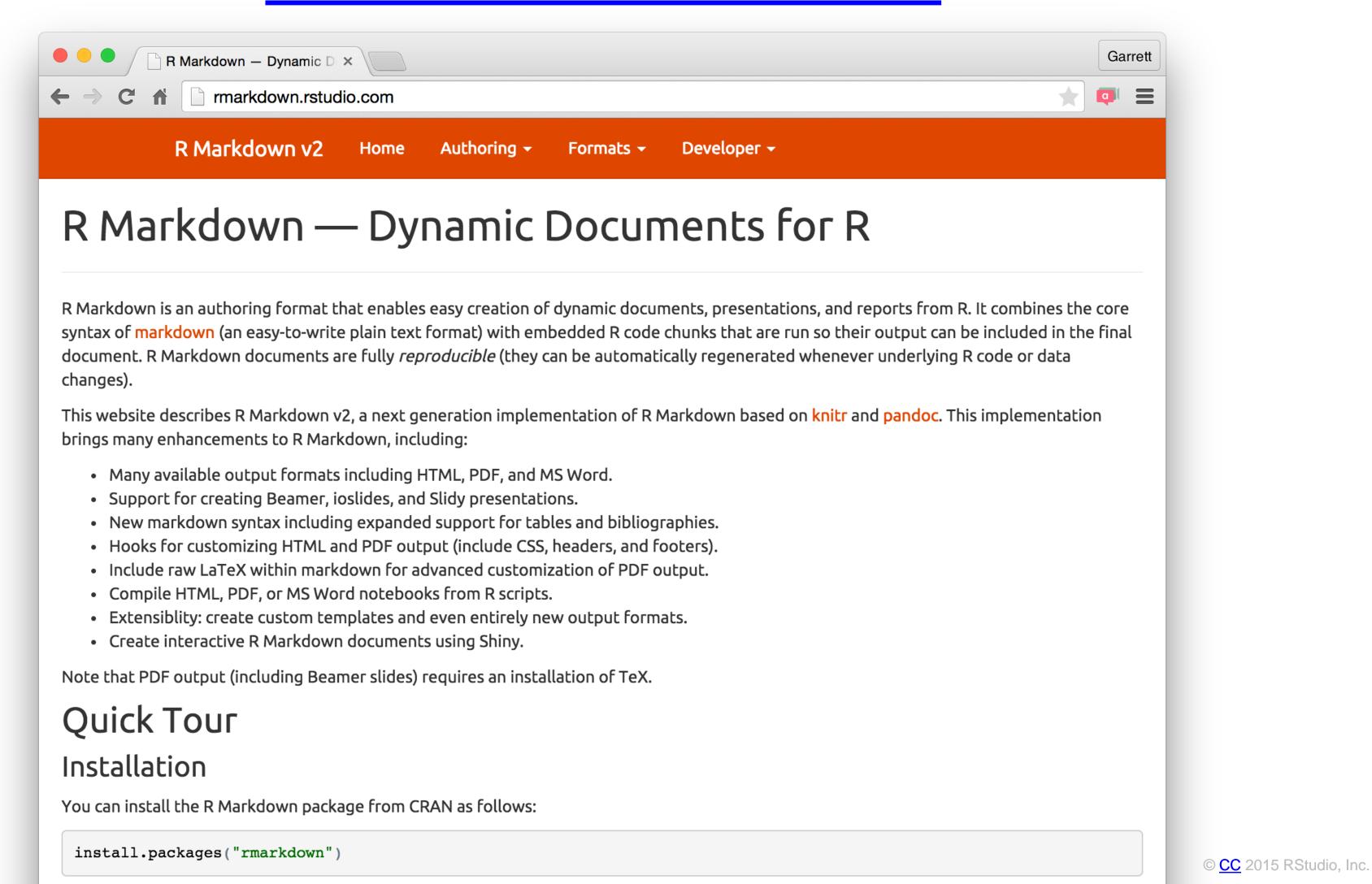
Parameterizable

# Teach yourself R Markdown



#### The R Markdown Development Center

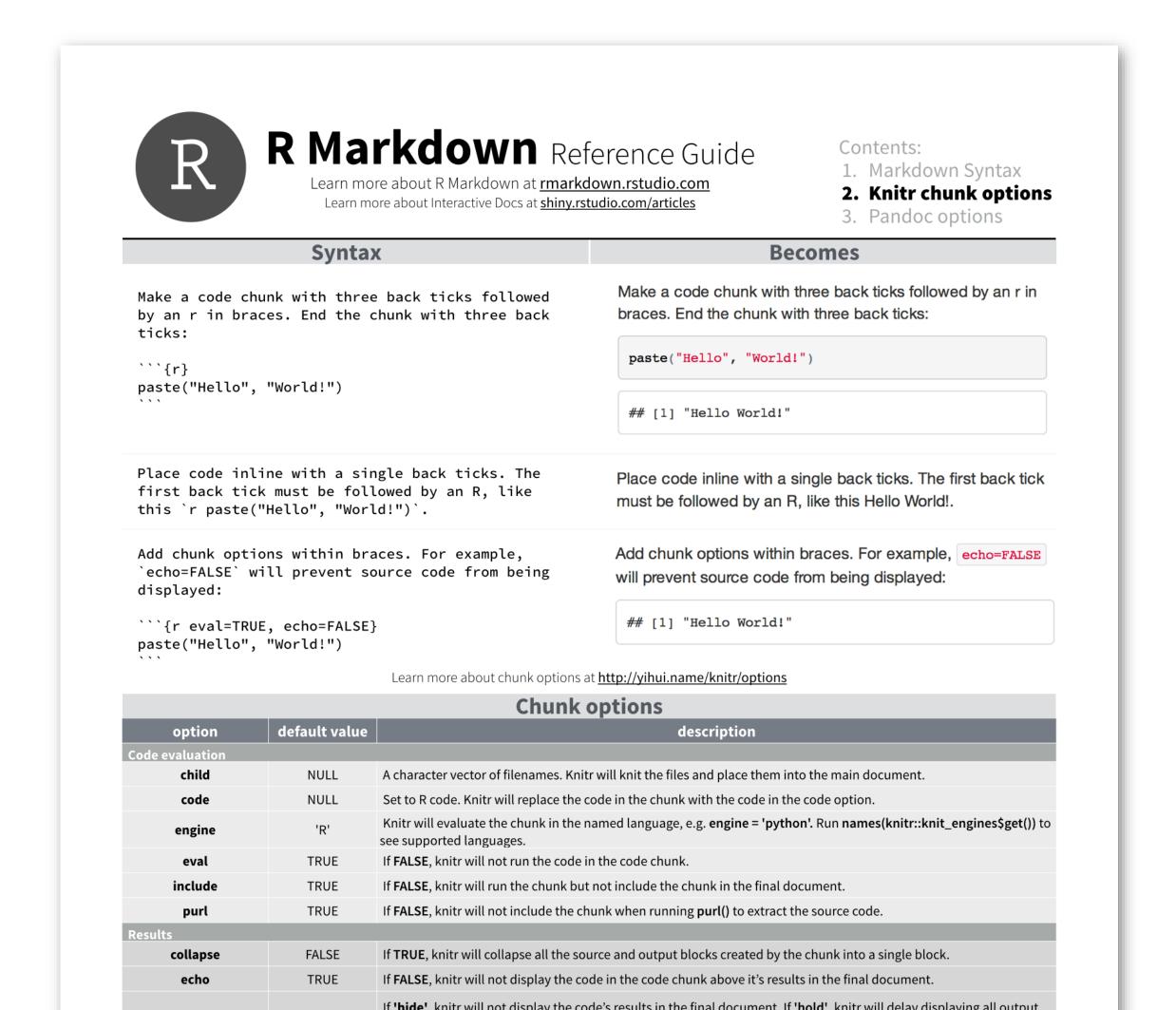
rmarkdown.rstudio.com





#### The R Markdown Reference Guide

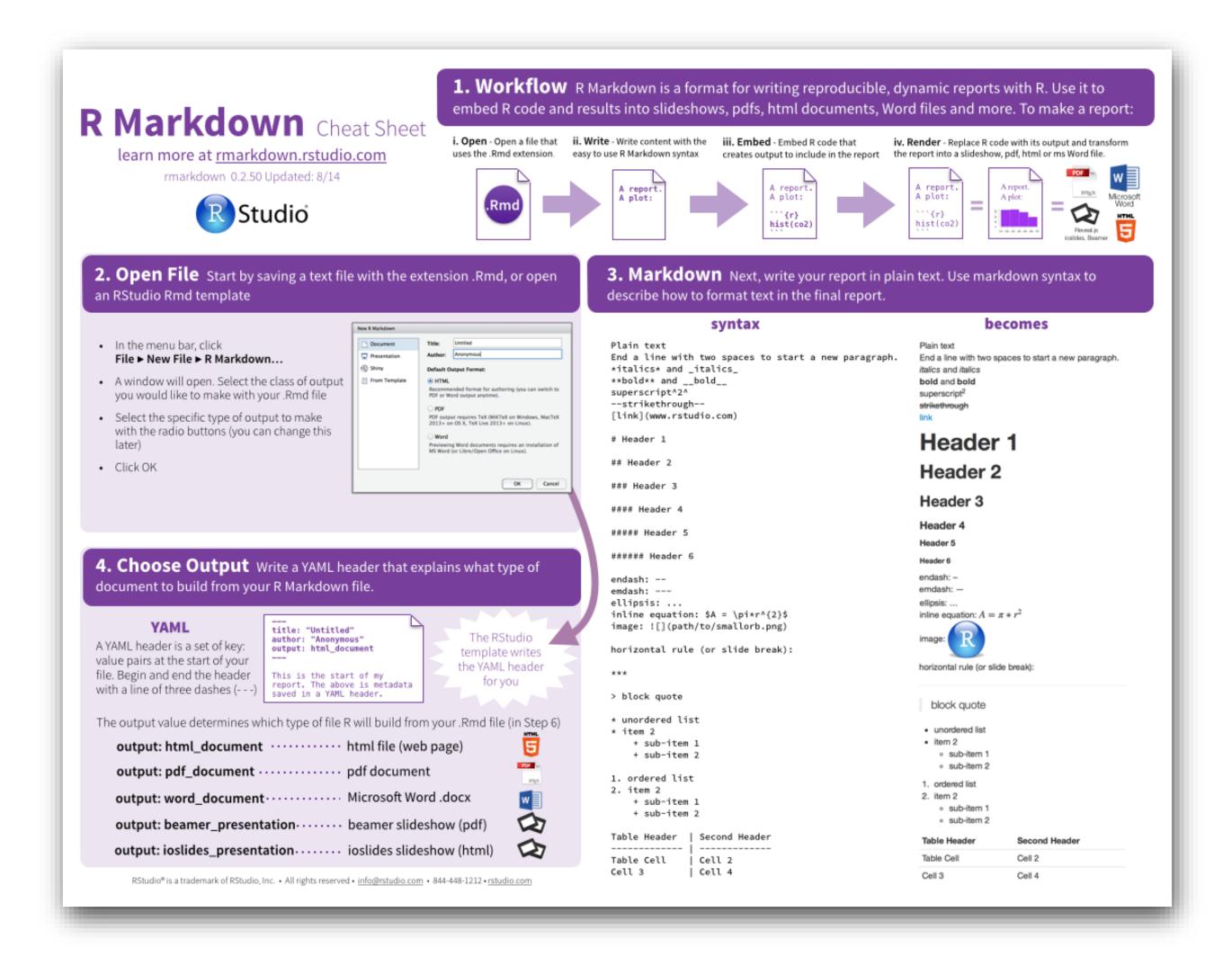
www.rstudio.com/resources/cheatsheets/





### The R Markdown Cheat Sheet

www.rstudio.com/resources/cheatsheets/



# R Markdown Render Function

### rmarkdown::render

Render at the command line with YAML options

> render("doc.Rmd")

Render at the command line, override output format.

> render("doc.Rmd", "html\_document")

Render at the command line to multiple formats.

> render("doc.Rmd", c("html\_document", "pdf\_document"))

### rmarkdown::render

Render at the command line with YAML options

> render("doc.Rmd")

Render at the command line, set parameters.

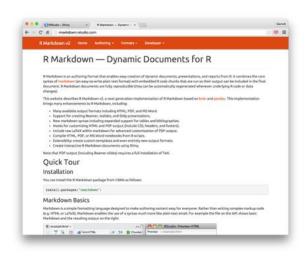
```
> render("doc.Rmd", params = list(
filename = "other_data.csv",
symbol = "AAPL")
```



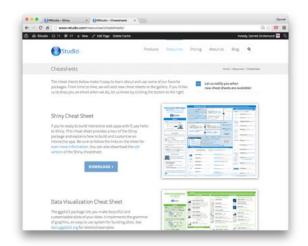
### Useful websites



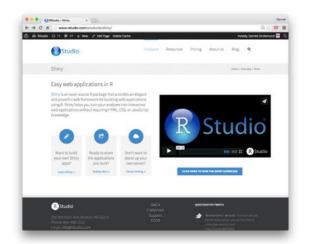
The Shiny development center: shiny.rstudio.com



The R Markdown development center: <a href="markdown.rstudio.com">rmarkdown.rstudio.com</a>



Shiny and R Markdown cheat sheets: www.rstudio.com/resources/cheatsheets



RStudio products:

www.rstudio.com/products/shiny