



R markdown:
a way to typeset words, code,
and images all in one easy
bundle

R markdown

- All workshops will be in R markdown
- You will write all your assessment in R markdown
- Always save using the '.Rmd' extension to get full functionality
- You will eventually become very familiar with R markdown, but at the beginning please make sure something knits with enough time to get help

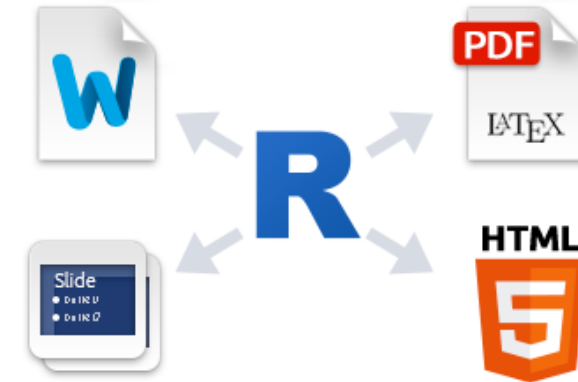
```
{...code  
}
```



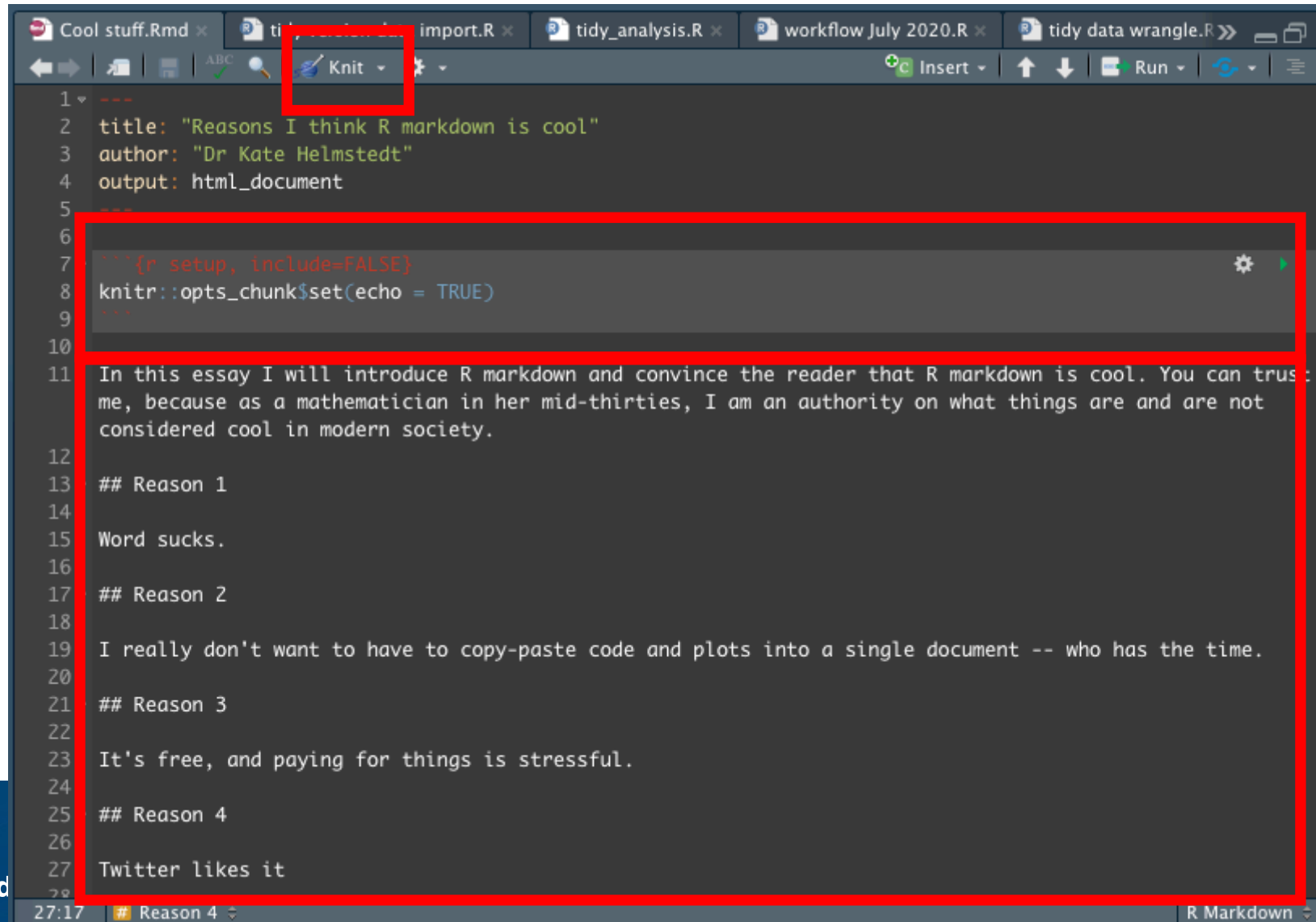
Results

Rmarkdown

- Rmarkdown code file (.Rmd)
 - Contains all text, all code, but hasn't run anything yet
 - Can run code chunks in the code file
- Knitted html, pdf, or word file
 - Contains all text, selected code, all plots
 - All code (unless specifically silenced) has been run
- Rmd is working file, html/pdf is the output



Rmarkdown



```
1 ---
2 title: "Reasons I think R markdown is cool"
3 author: "Dr Kate Helmstedt"
4 output: html_document
5 ---
6
7 ```{r setup, include=FALSE}
8 knitr::opts_chunk$set(echo = TRUE)
9 ```
10
11 In this essay I will introduce R markdown and convince the reader that R markdown is cool. You can trust
12 me, because as a mathematician in her mid-thirties, I am an authority on what things are and are not
13 considered cool in modern society.
14
15 ## Reason 1
16
17 Word sucks.
18
19 ## Reason 2
20
21 I really don't want to have to copy-paste code and plots into a single document -- who has the time.
22
23 ## Reason 3
24
25 It's free, and paying for things is stressful.
26
27 ## Reason 4
28
29 Twitter likes it
```

R markdown

Reasons I think R markdown is cool

Dr Kate Helmstedt

In this essay I will introduce R markdown and convince the reader that R markdown is cool. You can trust me, because as a mathematician in her mid-thirties, I am an authority on what things are and are not considered cool in modern society.

Reason 1

Word sucks.

Reason 2

I really don't want to have to copy-paste code and plots into a single document – who has the time.

Reason 3

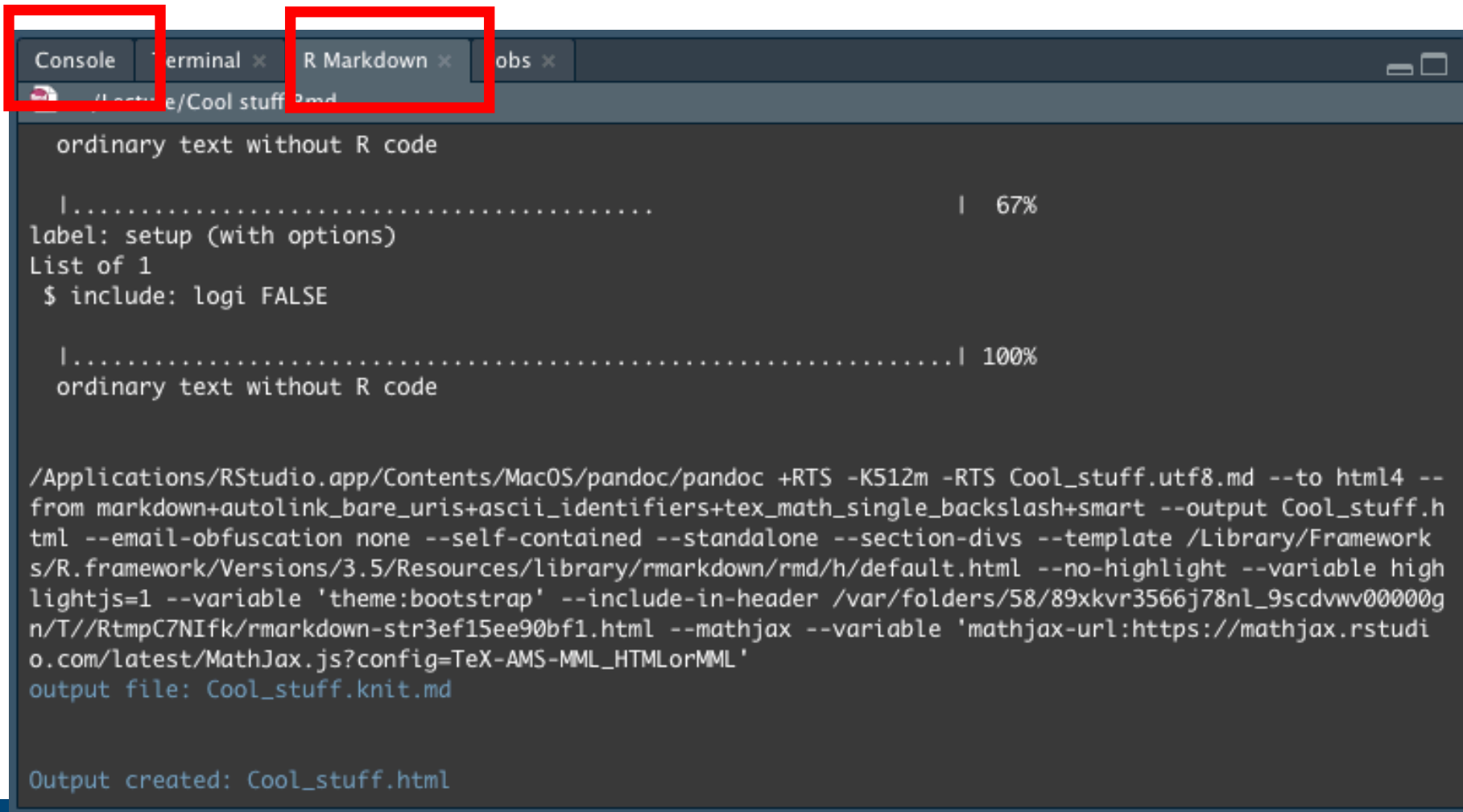
It's free, and paying for things is stressful.

Reason 4

Twitter likes it

You will read and work from
the knitted html version.
You will submit a knitted version plus
the code file

Rmarkdown



The screenshot shows the RStudio interface with the 'R Markdown' tab selected. The console displays the output of a pandoc command used to convert an R Markdown file to HTML. The output includes progress bars for 'ordinary text without R code' at 67% and 100%, followed by a detailed command line and the final output file 'Cool_stuff.html'.

```
ordinary text without R code  
|.....| 67%  
label: setup (with options)  
List of 1  
$ include: logi FALSE  
  
|.....| 100%  
ordinary text without R code  
  
/Applications/RStudio.app/Contents/MacOS/pandoc/pandoc +RTS -K512m -RTS Cool_stuff.utf8.md --to html4 --  
from markdown+autolink_bare_uris+ascii_identifiers+tex_math_single_backslash+smart --output Cool_stuff.h  
tml --email-obfuscation none --self-contained --standalone --section-divs --template /Library/Framework  
s/R.framework/Versions/3.5/Resources/library/rmarkdown/rmd/h/default.html --no-highlight --variable high  
lightjs=1 --variable 'theme:bootstrap' --include-in-header /var/folders/58/89xkvr3566j78nl_9scdvww00000g  
n/T//RtmpC7NIfk/rmarkdown-str3ef15ee90bf1.html --mathjax --variable 'mathjax-url:https://mathjax.rstudi  
o.com/latest/MathJax.js?config=TeX-AMS-MML_HTMLorMML'  
output file: Cool_stuff.knit.md  
  
Output created: Cool_stuff.html
```

Then back to R Studio

