

R Studio®

Intro to R Markdown



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Customer Success

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Materials: https://github.com/jaclynjanis/intro_rmarkdown

Agenda

- Flash back to last week: what you can do with R (Markdown)
- Silent movie
- Talk through what you saw:
 - Anatomy of R Markdown
 - R Markdown's journey
- Where to go from here



R Markdown is
an authoring framework for data science.

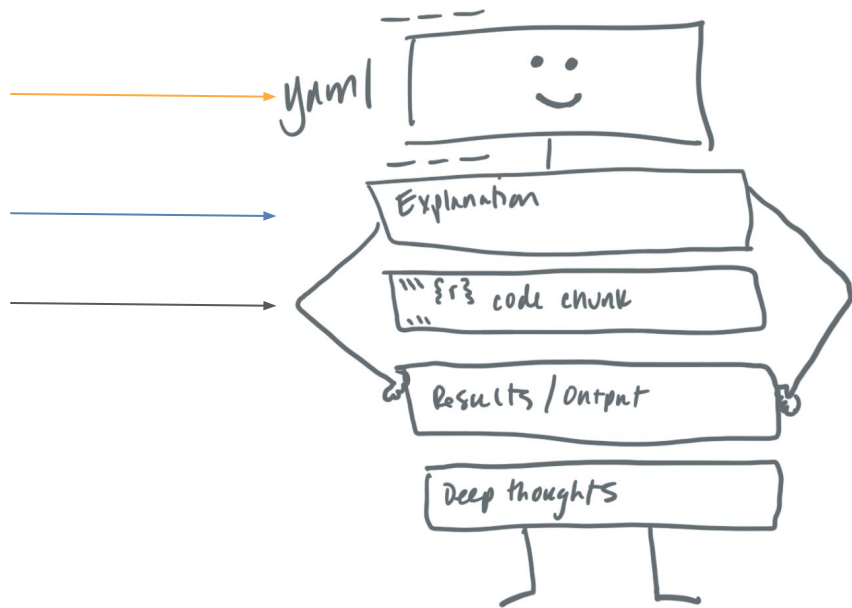
What can you do with R Markdown?



[Illustration by Allison Horst](#)

Time for a silent movie...

R Markdown Anatomy



Meet my friend, R Markdown.

The YAML

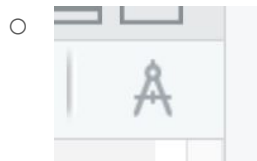
- Metadata
- Dictates output formats and options
 - Custom themes
 - Set parameters
- Remember when I thought to myself, “I don’t think my audience needs to see all my code, just the output.”
- The YAML is optional



```
1 ---  
2 title: "Untitled"  
3 output: html_document  
4 ---  
5
```

The text

- Specifically, [Pandoc's Markdown](#) syntax
- Designed to be easy to write and easy to read
- Now, you can see how your text will be rendered before you knit:



```
# Header 1
## Header 2
...
##### Header 6
```

```
- unordered list
- item 2
  - item 2a (indent 1 tab)
  - item 2b

1. ordered list
2. item 2
  - item 2a (indent 1 tab)
  - item 2b
```

```
<link url>
[This is a link.](link url)
[This is another link][id].
```

Header 1 Header 2

...
Header 6

- unordered list
- item 2
 - item 2a (indent 1 tab)
 - item 2b
- 1. ordered list
- 2. item 2
 - item 2a (indent 1 tab)
 - item 2b

```
http://www.rstudio.com/
This is a link.
This is another link.
```

The code

- Quickly insert code chunks

- Ctrl + Alt + I or Cmd + Option + I
- Add Chunk command in editor toolbar
- Typing the chunk delimiters



- Consider chunk options

- You don't want your code chunk and its results to show in your final doc? (include = False)
- You want the results to show but not the code? (echo = False)
- [And several others...](#)



The code, continued

- Code can be inline with text
- Displays results of code but not the code itself
- Indistinguishable from surrounding text

```
# Conclusion
```

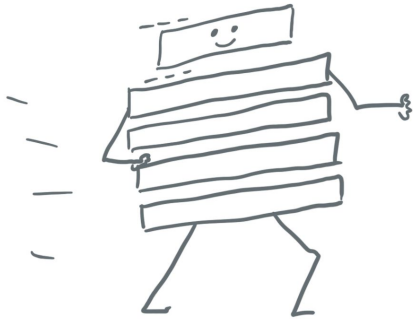
```
The mean standardized fertility measure among these towns in 1888 was `r round(mean(swiss$Fertility), 2)`.
```

Conclusion

The mean standardized fertility measure among these towns in 1888 was 70.14.

The R Markdown Journey

render () or



Where to go from here...

Deeper dives:

[RStudio's R Markdown site](#)

[The R Markdown Cookbook](#), Yihui Xie, Christophe Dervieux, Emily Riederer

[R Markdown: The Definitive Guide](#), Yihui Xie, J.J. Allaire, Garrett Golemund

[Level up in R Markdown](#), Allison Horst

[Alison Hill's Advanced R Markdown workshop](#)

Quick reference:

[R Markdown Reference Guide](#)

[R Markdown Cheat Sheet](#)



Thank you

Code and slides: https://github.com/jaclynjanis/intro_rmarkdown