

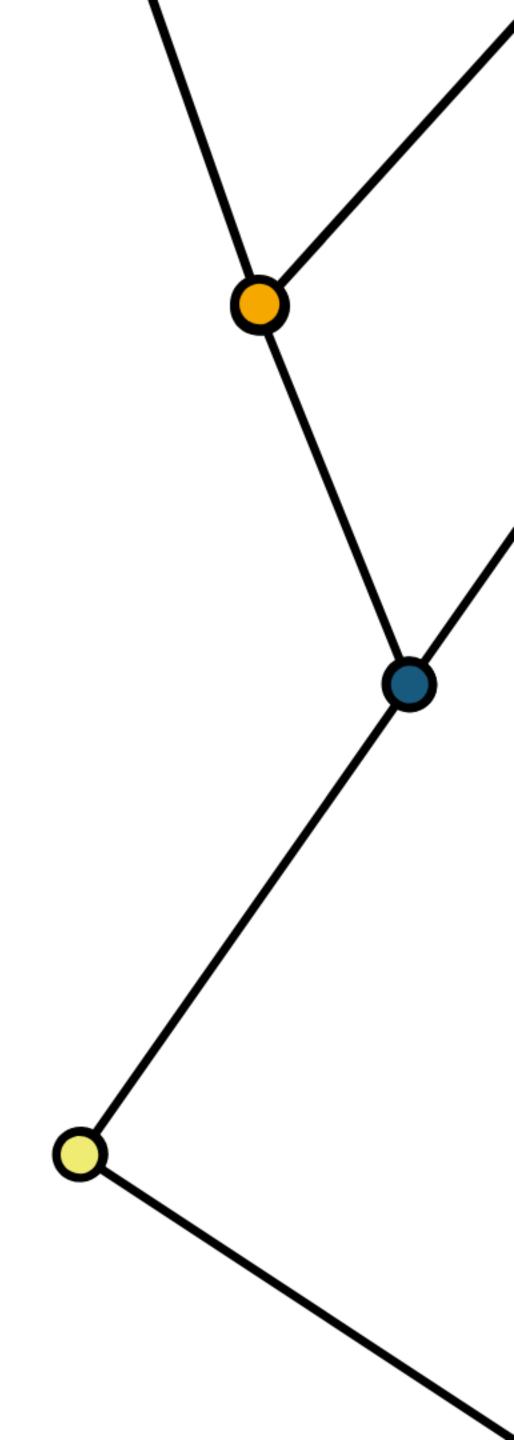
Wrapping Up

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Y/**O** @wjakethompson

































































Please help!

- First, help me help you
- Create a reproducible example (reprex)





reprex

Goal: create the *simplest example possible* to illustrate the problem/ question, that anyone can run on their own machine

- Can't use data stored on your computer (others won't have that)
- Can't assume options or settings are the same across computers

reprex to the rescue!





Question: How do I sort by row total and all other columns?





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Give the people something to look at.

```
> my_data
  var_1 var_2 var_3
```





Give the people something to look at.

>	my_dat	ta		
	var_1	var_2	var_3	
1	0	0	0	
2	1	0	0	
3	0	1	0	
4	1	1	0	
5	0	0	1	
6	1	0	1	
7	0	1	1	
8	1	1	1	







```
library(tidyverse)
library(glue)
num_var <- 3
rep(list(c(0L, 1L)), num_var) %>%
  set_names(glue("var_{seq_len(num_var)}")) %>%
  expand.grid()
  var_1 var_2 var_3
```





Asking questions

Bad: How do I sort by row total and all other columns?

Better: How can I sort a data frame by the row total, and then by each column, in order?

Best: Provide an example of what you want (including the **better** question), and solutions you've tried.





```
# What I want:
    var_1 var_2 var_3 total
1     0     0     0
2     1     0     0     1
3     0     1     0     1
4     0     0     1     1
5     1     1     0     2
6     1     0     1     2
7     0     1     1     2
8     1     1     1     3
```





```
# What I've tried
# Works, but not generalizable to different numbers of variables
my_data %>%
  mutate(total = rowSums(.)) %>%
  arrange(total, desc(var_1, var_2, var_3))
# Breaks
my_data %>%
  mutate(total = rowSums(.)) %>%
  arrange(total, desc(everything()))
Error: No tidyselect variables were registered
Call `rlang::last_error()` to see a backtrace
```





Anatomy of a good question

- Brief description of what you're doing
- Reproducible data
- What you've tried
- What you've gotten
- What you want to get





Anatomy of a good question

- Brief description of what you're doing
- Reproducible data
- What you've tried
- What you've gotten
- What you want to get

reprex makes this part easy!





```
library(tidyverse)
library(glue)
num_var <- 3
my_data <- rep(list(c(0L, 1L)), num_var) %>%
  set_names(glue("var_{seq_len(num_var)}")) %>%
  expand.grid()
# What I've tried:
# Works, but not generalizable to different numbers of variables
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Error: No tidyselect variables were registered
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reprex()

The **reprex()** function from the **reprex** package will run code, format it nicely, and render the output.

```
reprex(x = NULL, venue, si, style)
```

The reprex.
Looks first on the clipboard.

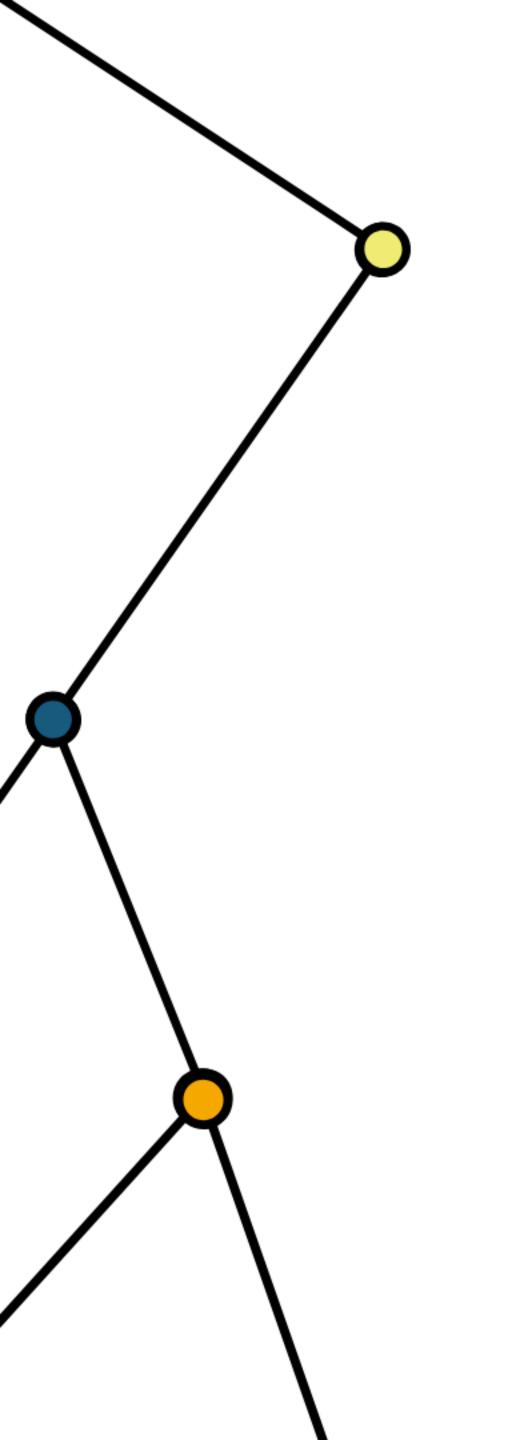
Where are you posting? (so, gh, ds)

Include session information?

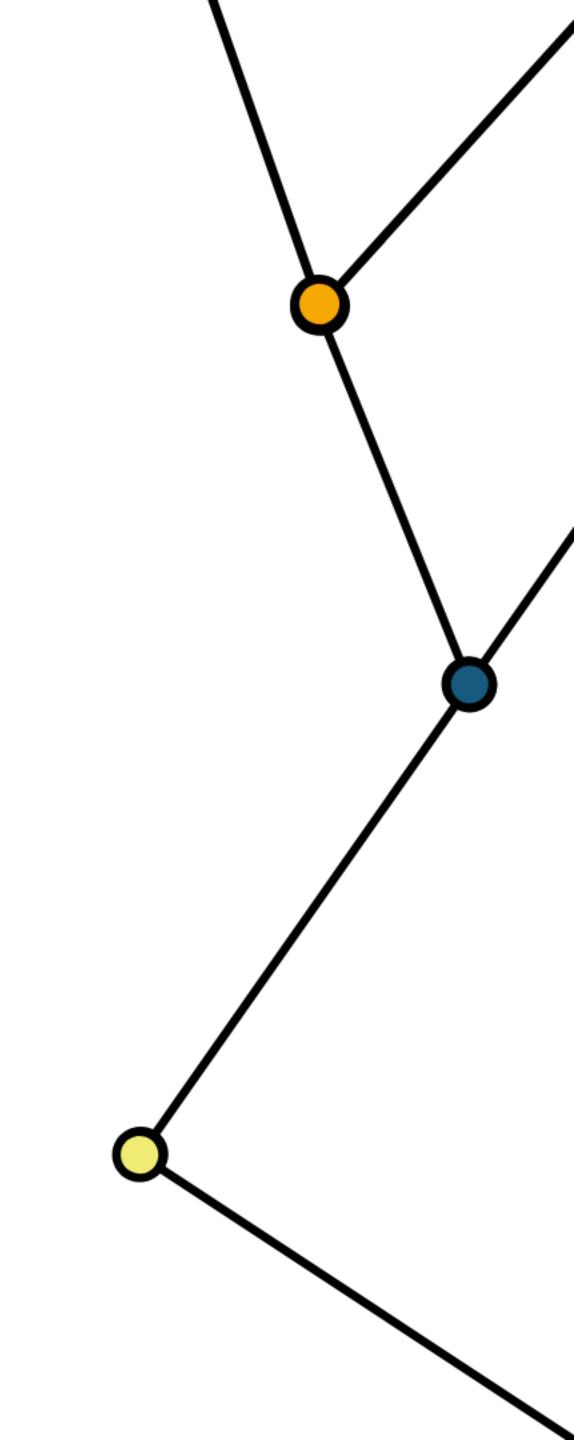
Nicely format your code?







Demo



Where to get help

- RStudio Community
- StackOverflow
- GitHub (if there is a bug in a package)
- <u>Tidyverse website</u>



Google it

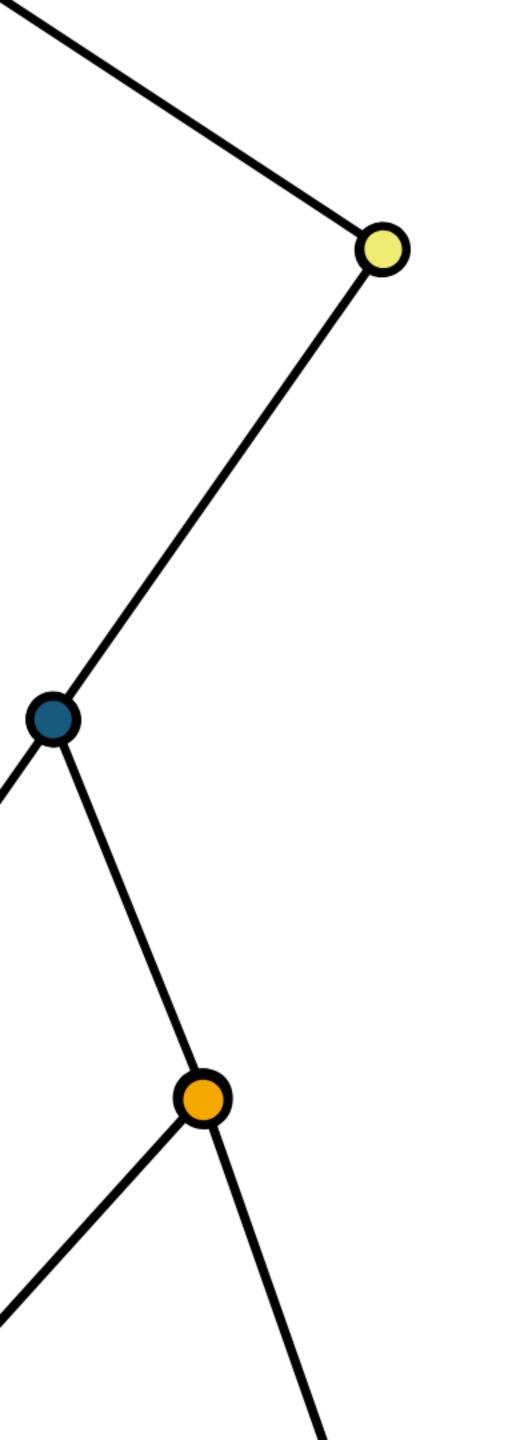


John B. Holbein @JohnHolbein1

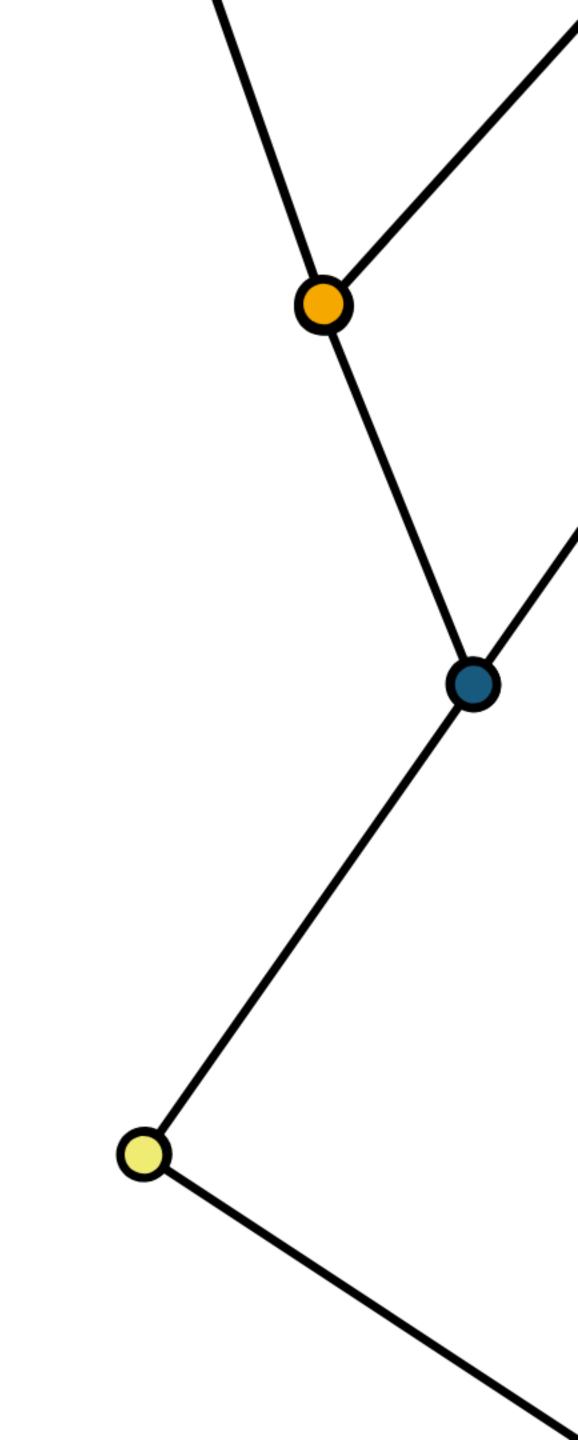
Students often don't realize that being good at coding really just means being really good at Googling.

9:56 am - 17 May 2019

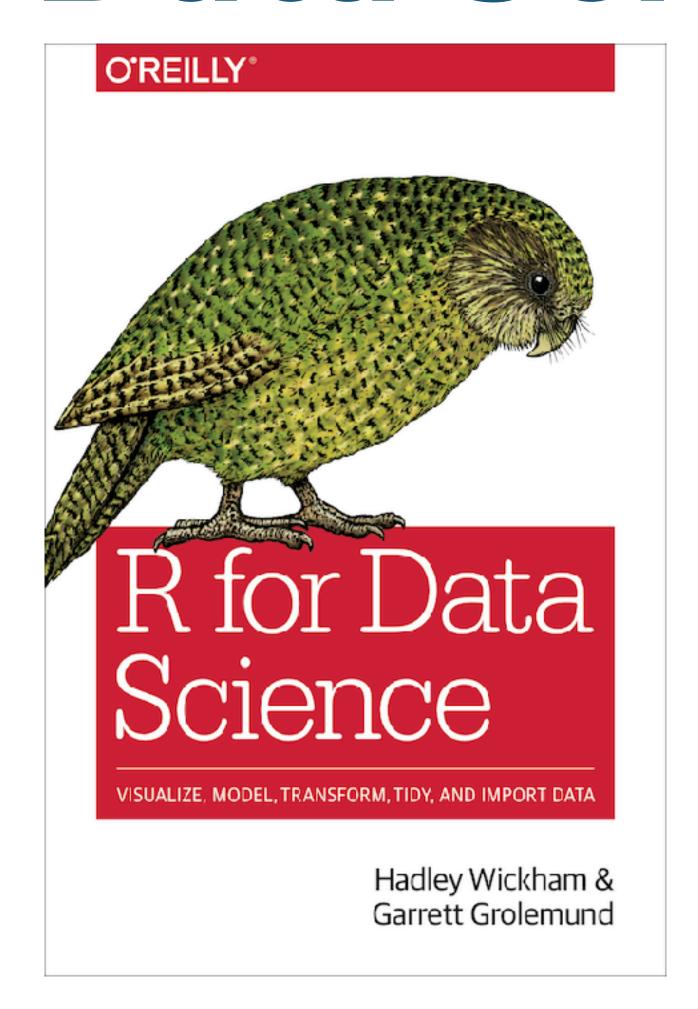


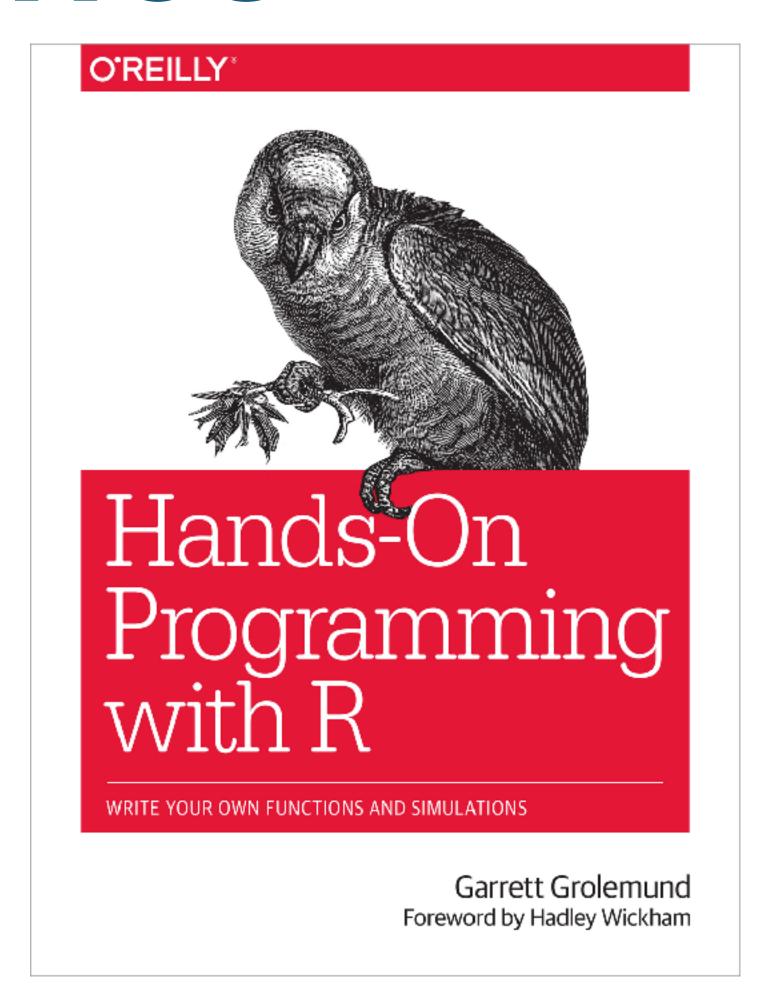


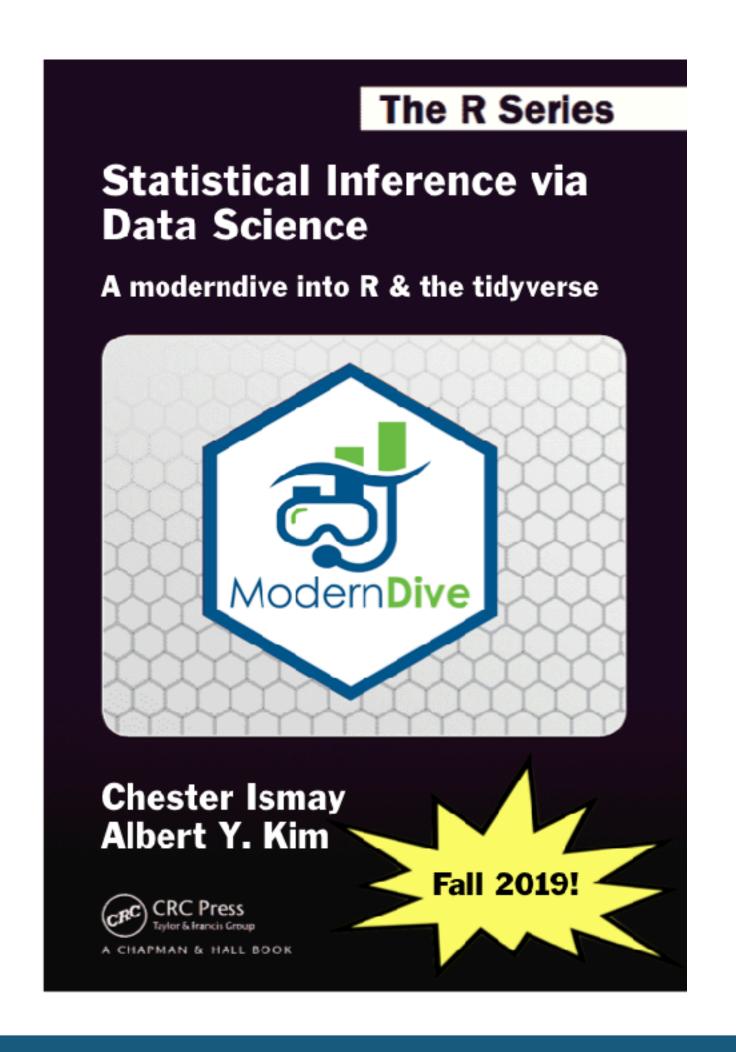
What's Next



Data Science

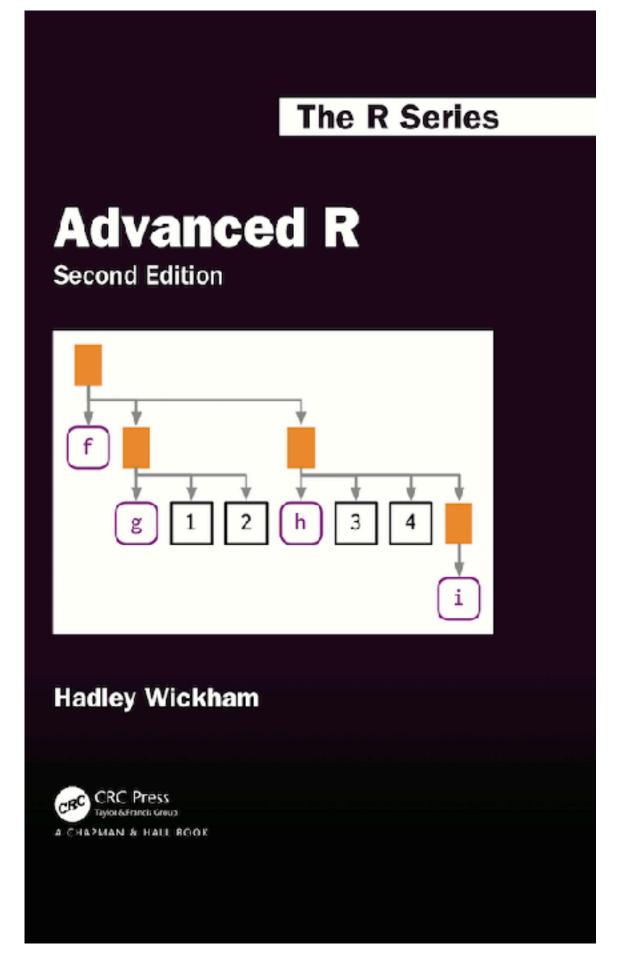


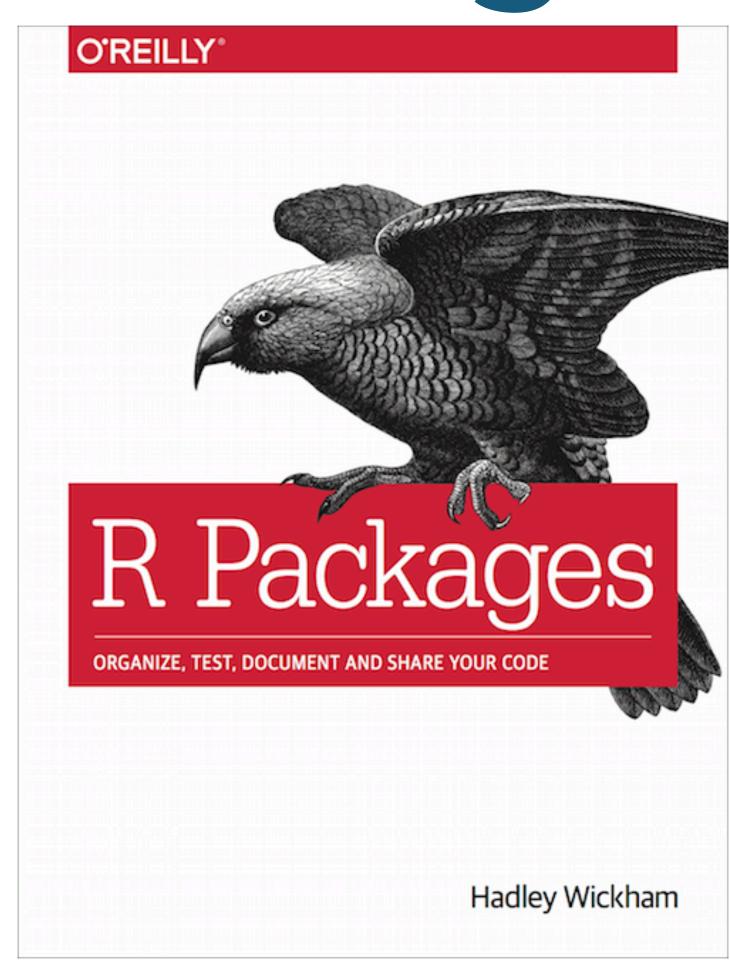


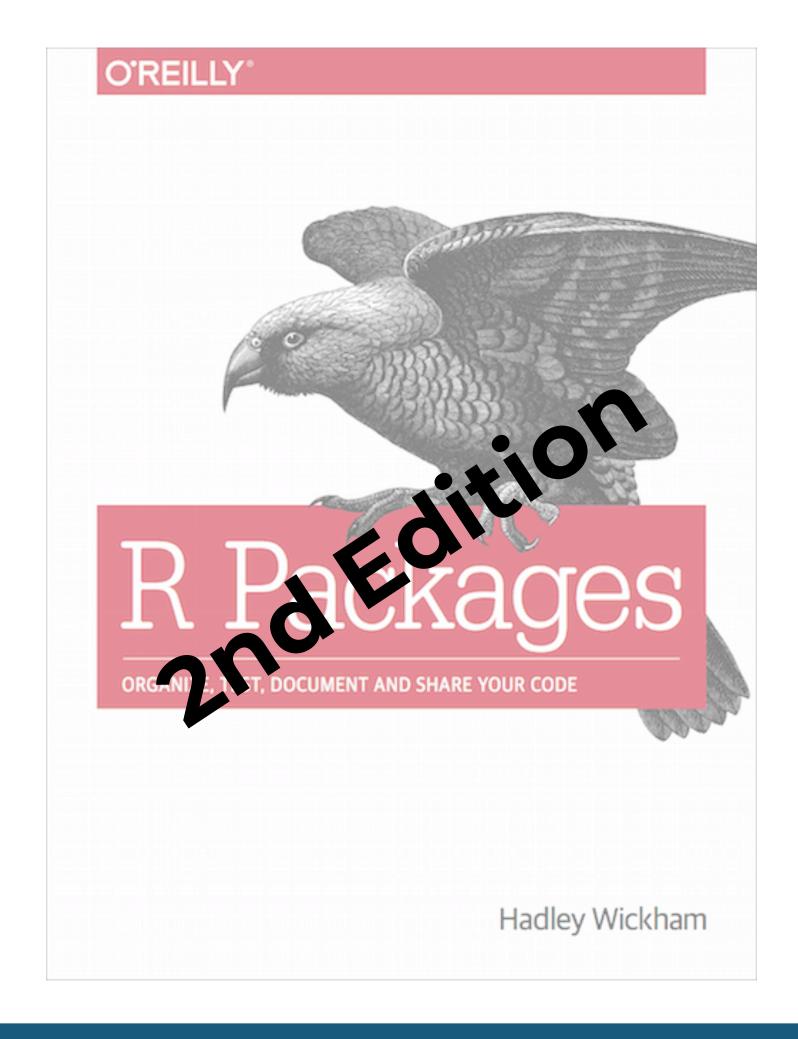




R Programming

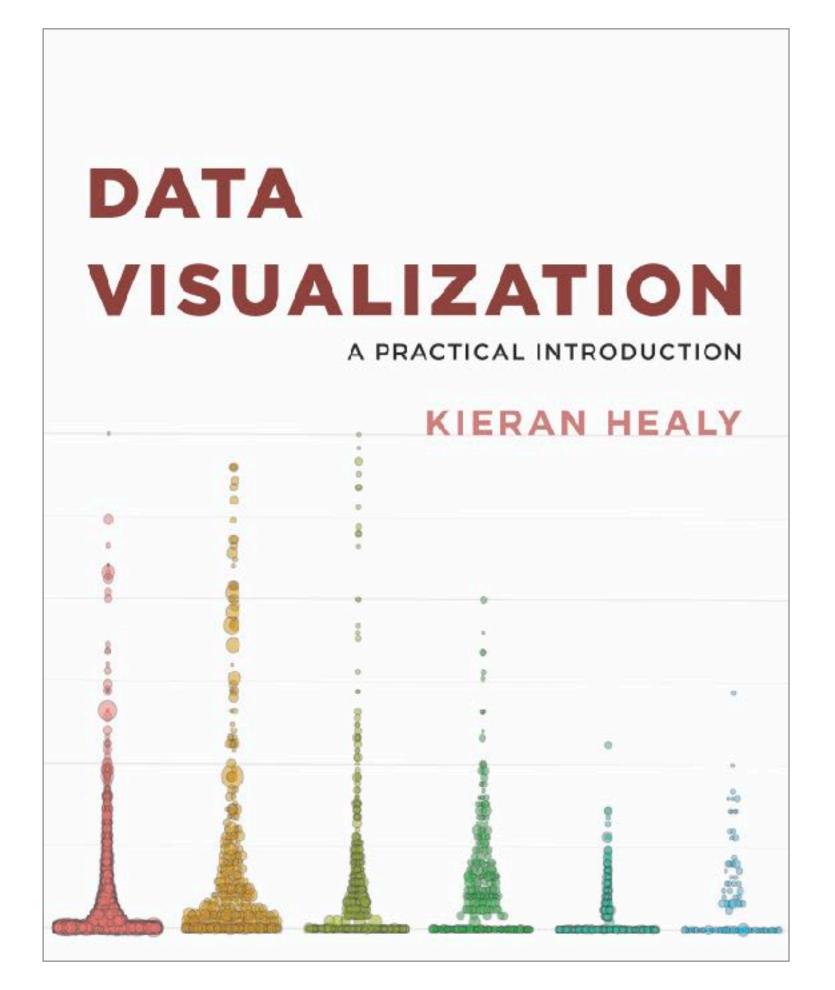


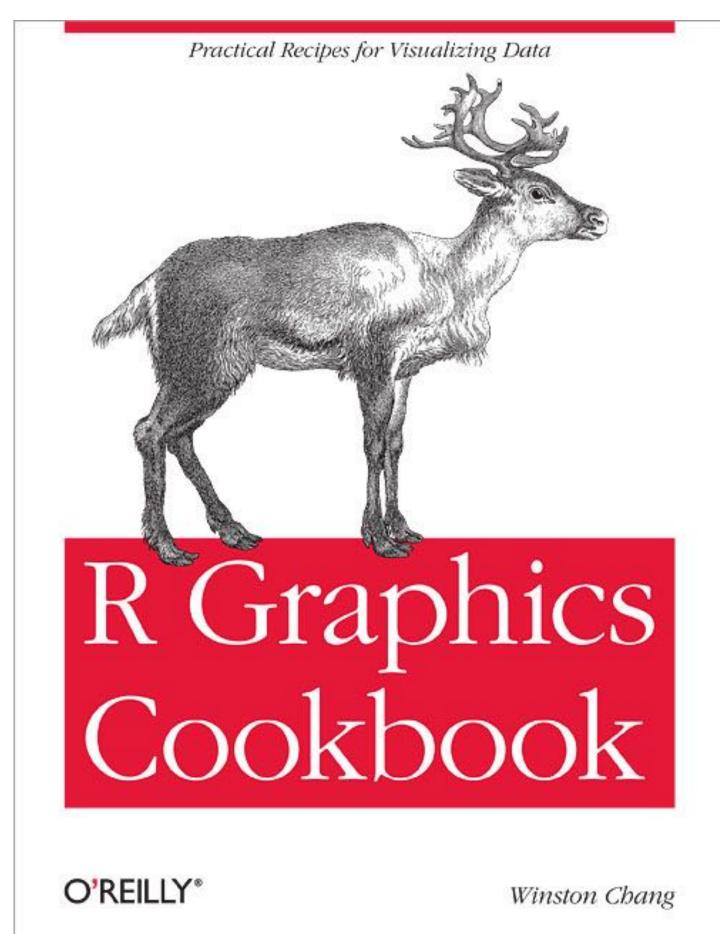


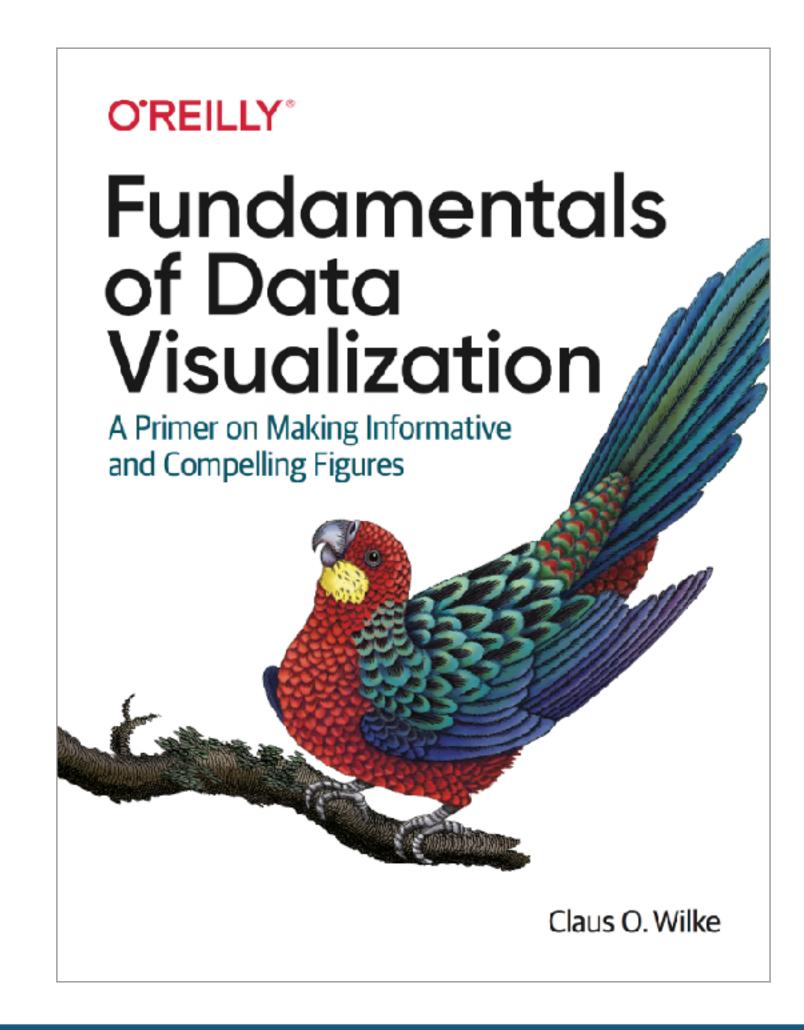




Data Visualization

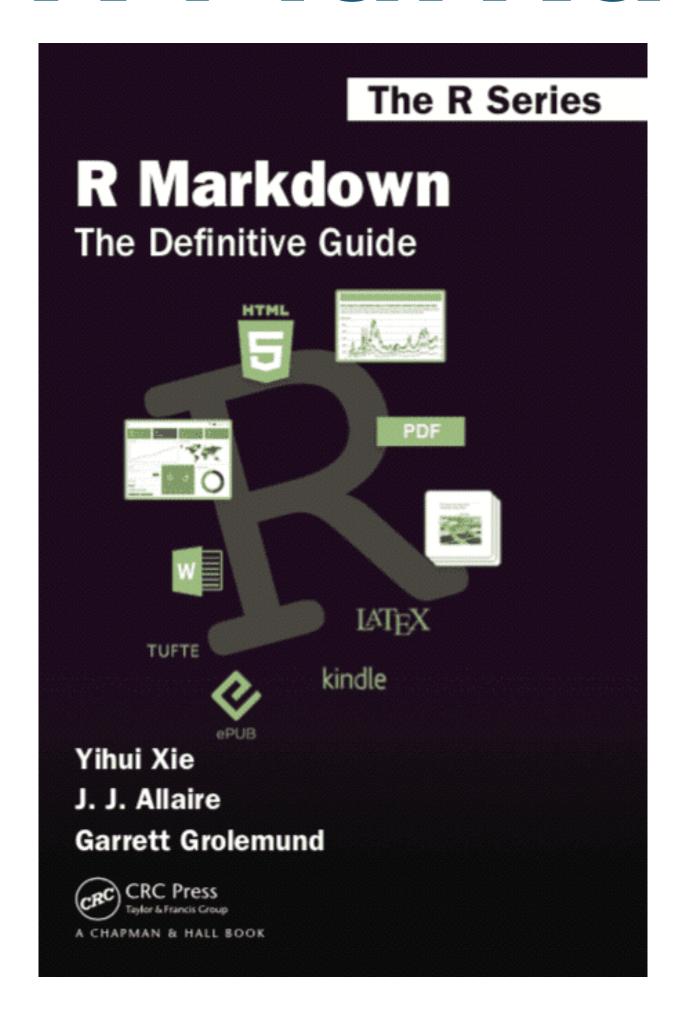




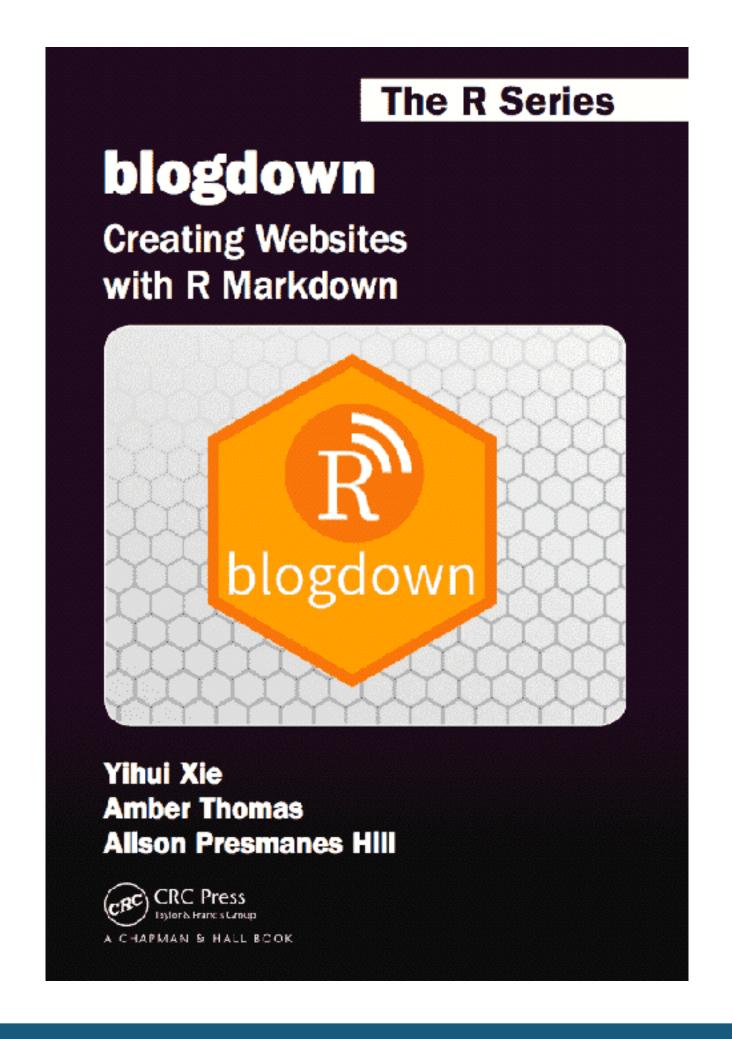




RMarkdown









Miscellaneous

- Blogs
 - Simply Statistics, by Roger Peng, Jeff Leek, and Rafa Irizarry
 - Flowing Data, by Nathan Yau
- Podcasts
 - Not So Standard Deviations, by Hilary Parker and Roger Peng
 - Credibly Curious, by Nicholas Tierney and Saskia Freytag
- Newsletters
 - R Weekly



Twitter

Mara Averick, RStudio

Karl Broman, Wisconsin

<u>Jenny Bryan</u>, UBC, RStudio

Mine Çetinkaya-Rundel, Duke, RStudio

Lucy D'Agostino McGowan, Johns Hopkins

Romain François, RStudio

Jim Hester, RStudio

Alison Hill, RStudio

Max Kuhn, RStudio

<u>Jeff Leek</u>, Johns Hopkins

Thomas Mock, RStudio

<u>Hilary Parker</u>, StitchFix

<u>Thomas Lin Pedersen</u>, RStudio

Roger Peng, Johns Hopkins

Karthik Ram, rOpenSci

David Robinson, DataCamp

Emily Robinson, DataCamp

Maëlle Salmon, rOpenSci, Locke Data

Julia Silge, StackOverflow

Brooke Watson, ACLU

Hadley Wickham, RStudio

<u>Kara Woo</u>, Sage Bio

R-Ladies Global

We are R-Ladies



Awesome TAs

HELLO my name is

Jeff

HELLO my name is

Andrew

HELLO my name is

Charlie



