These materials adapted by Amelia McNamara from the RStudio <u>CC BY-SA</u> materials Introduction to R (2014) and <u>Master the Tidyverse</u> (2017).

Introduction to R & RStudio:

deck 11: Going Forward

Amelia McNamara

Visiting Assistant Professor of Statistical and Data Sciences Smith College

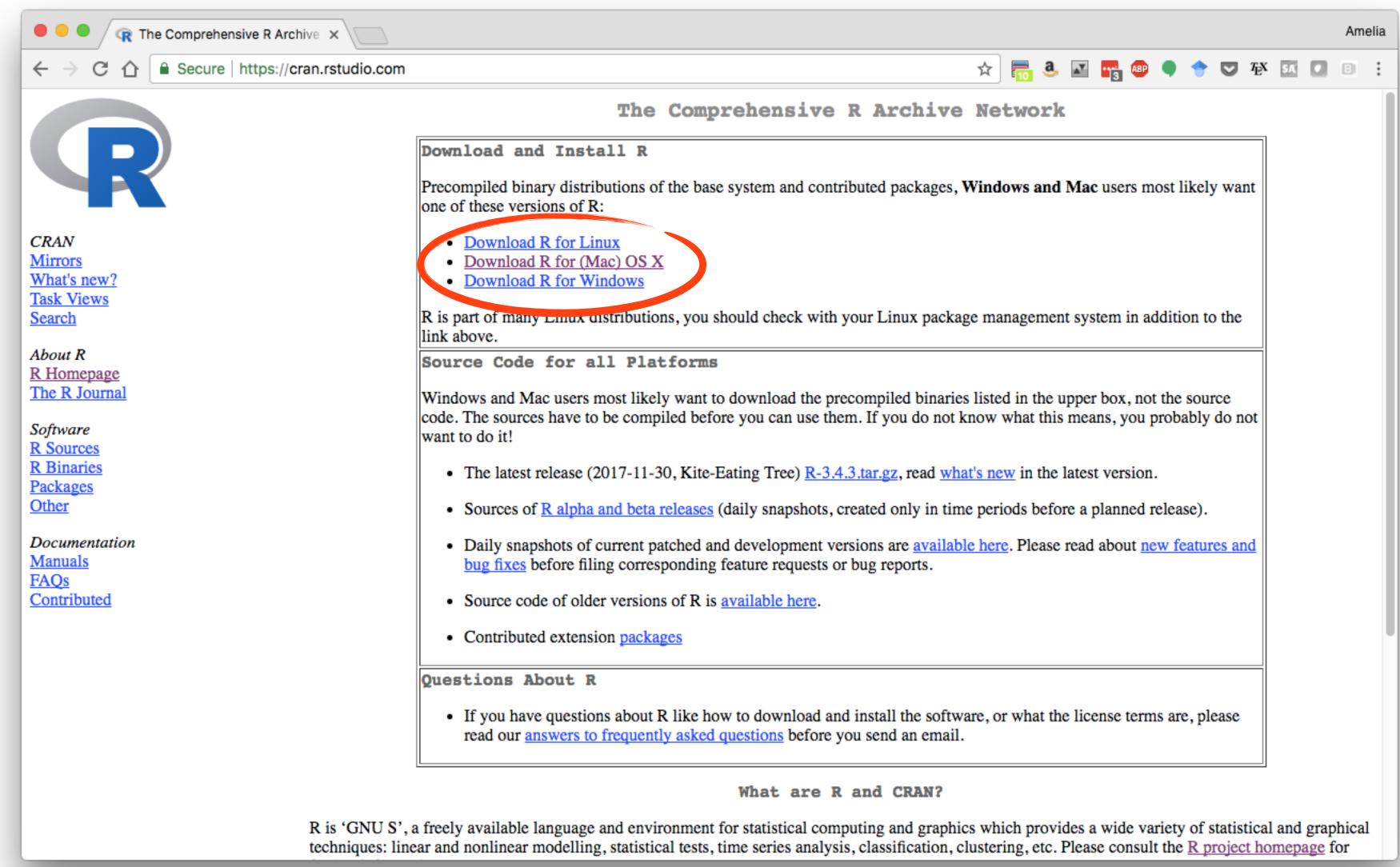
January 2018

Installing locally

First, you will need to install R (the programming language).

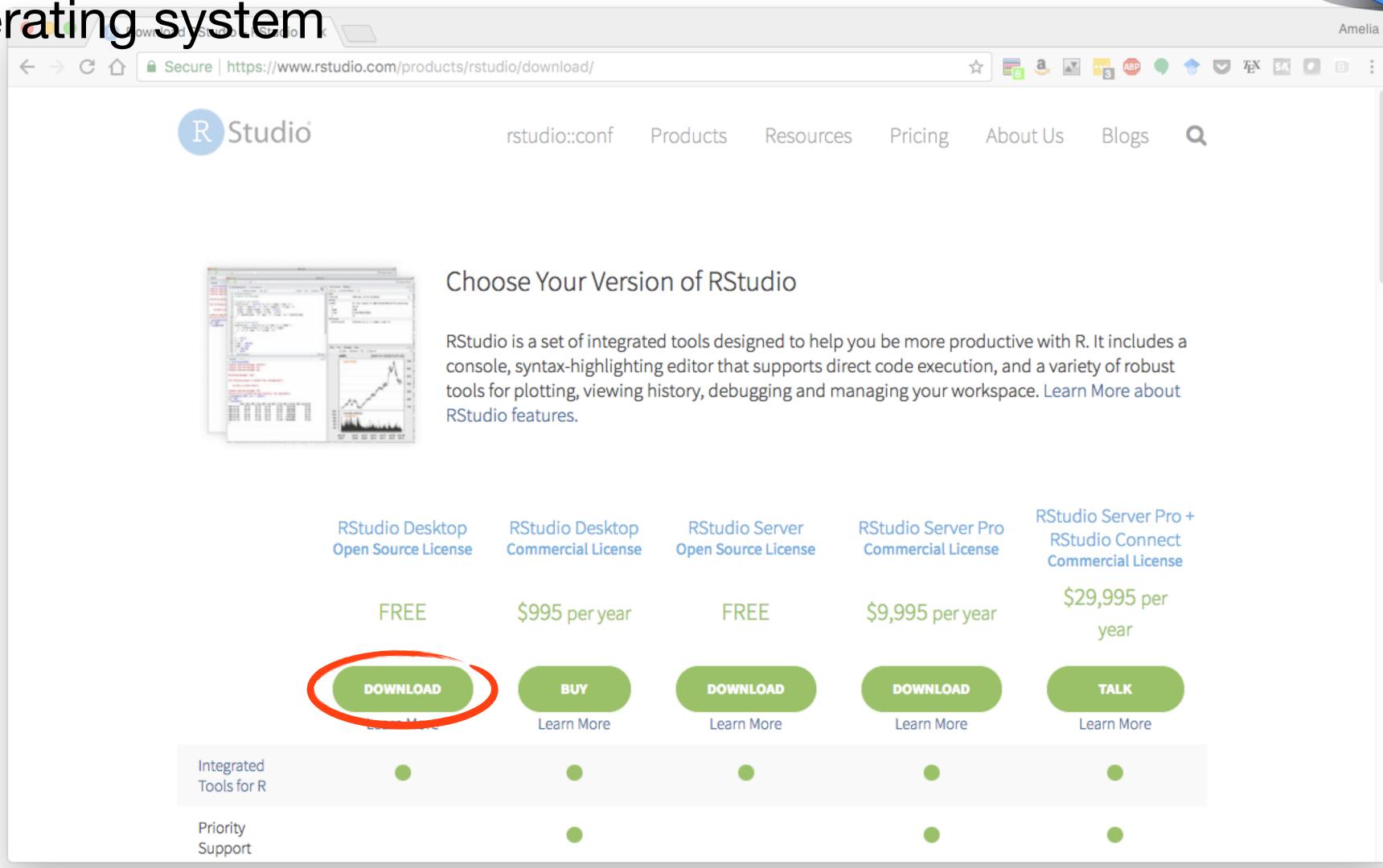
- 1. Go to https://cran.rstudio.com/
- 2. Select your operating system





Then, install RStudio (the application).

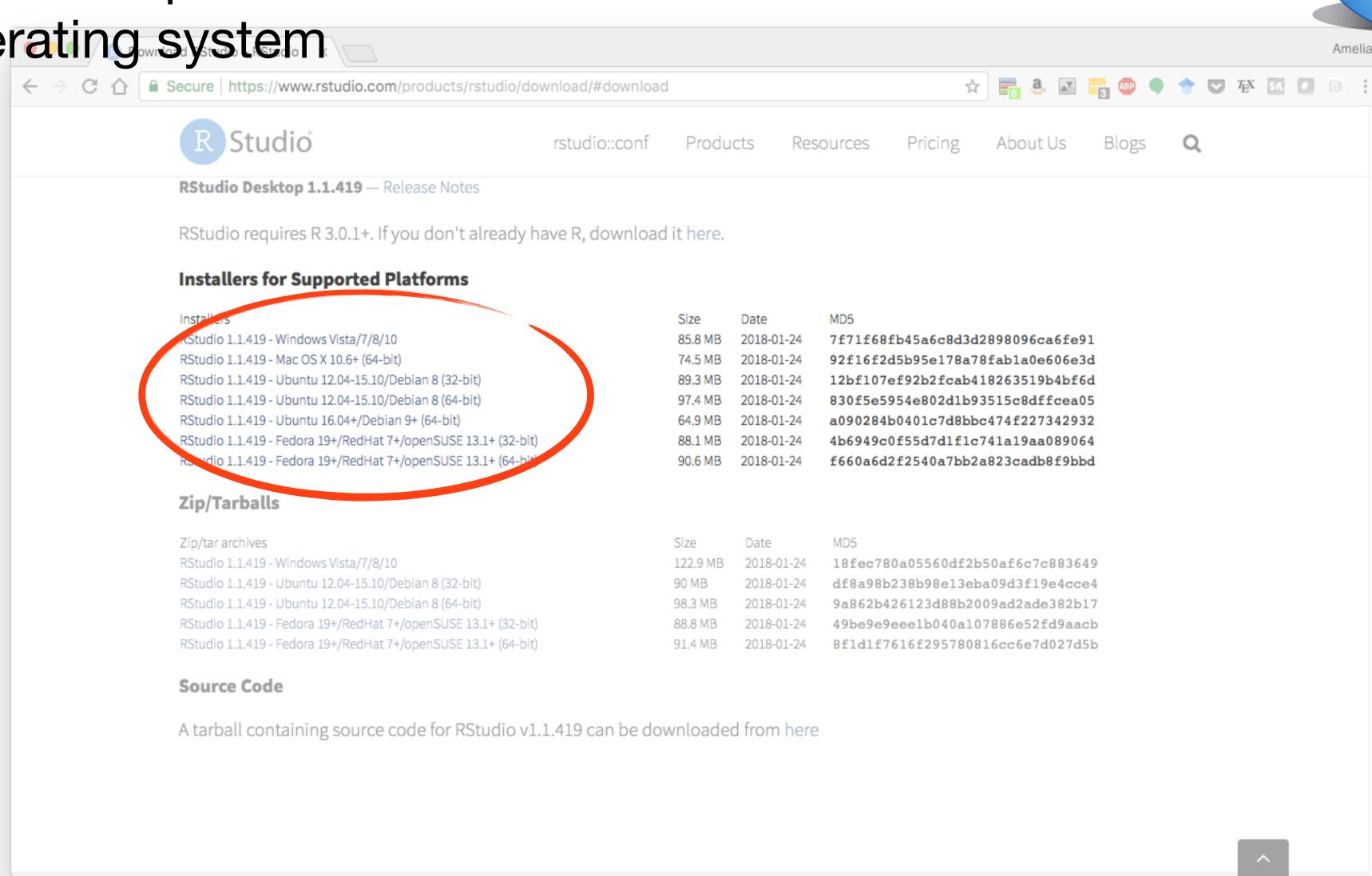
- 1. Go to https://www.rstudio.com/products/rstudio/download/
- 2. Select RStudio desktop
- 3. Select your operating system



Then, install RStudio (the application).

- 1. Go to https://www.rstudio.com/products/rstudio/download/
- 2. Select RStudio desktop

3. Select your operating system



Installing packages

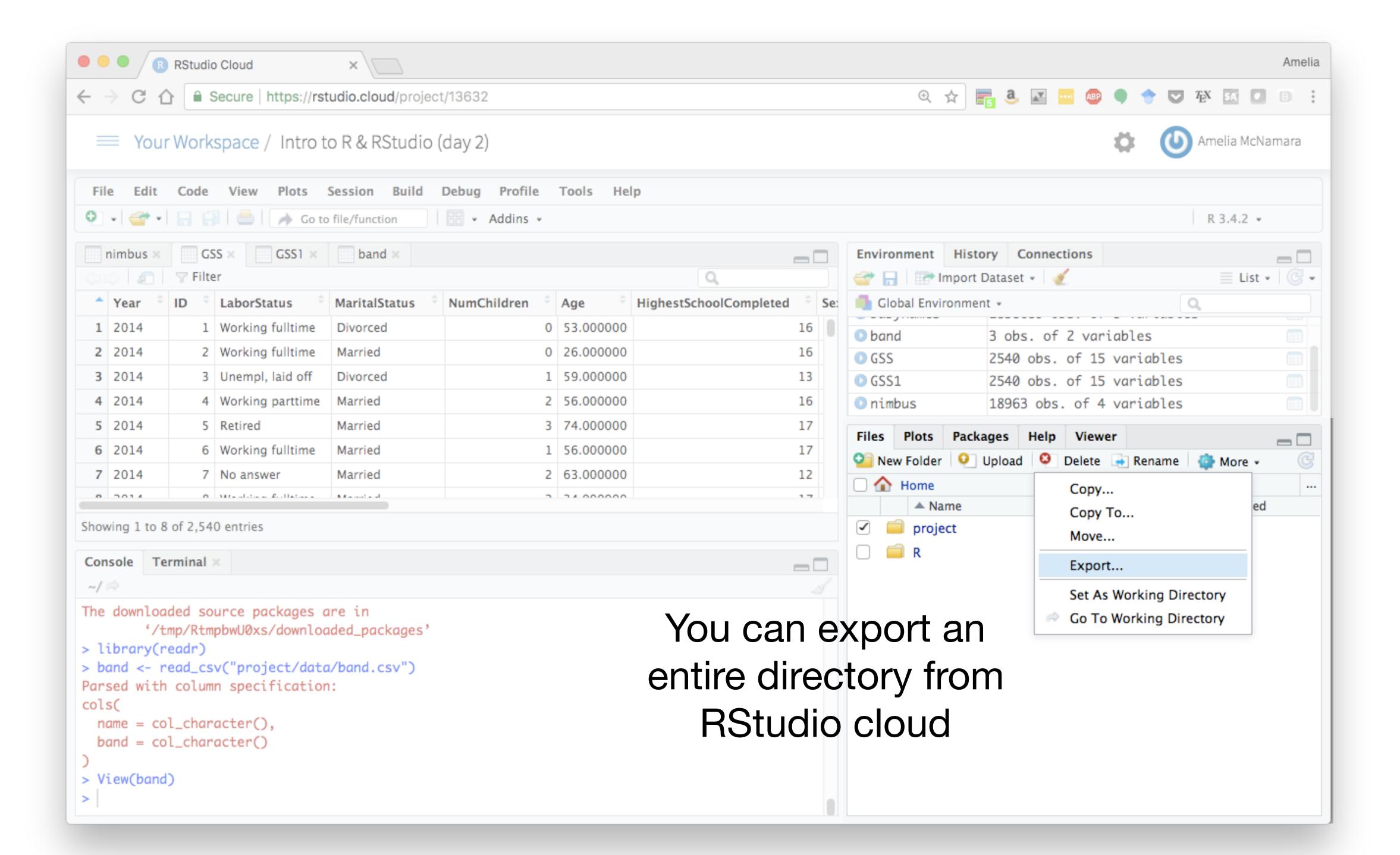
Shortcut to install

- ggplot2, for data visualisation.
- dplyr, for data manipulation.
- tidyr, for data tidying.
- readr, for data import.
- purrr, for functional programming.
- tibble, for tibbles, a modern re-imagining of data frames.

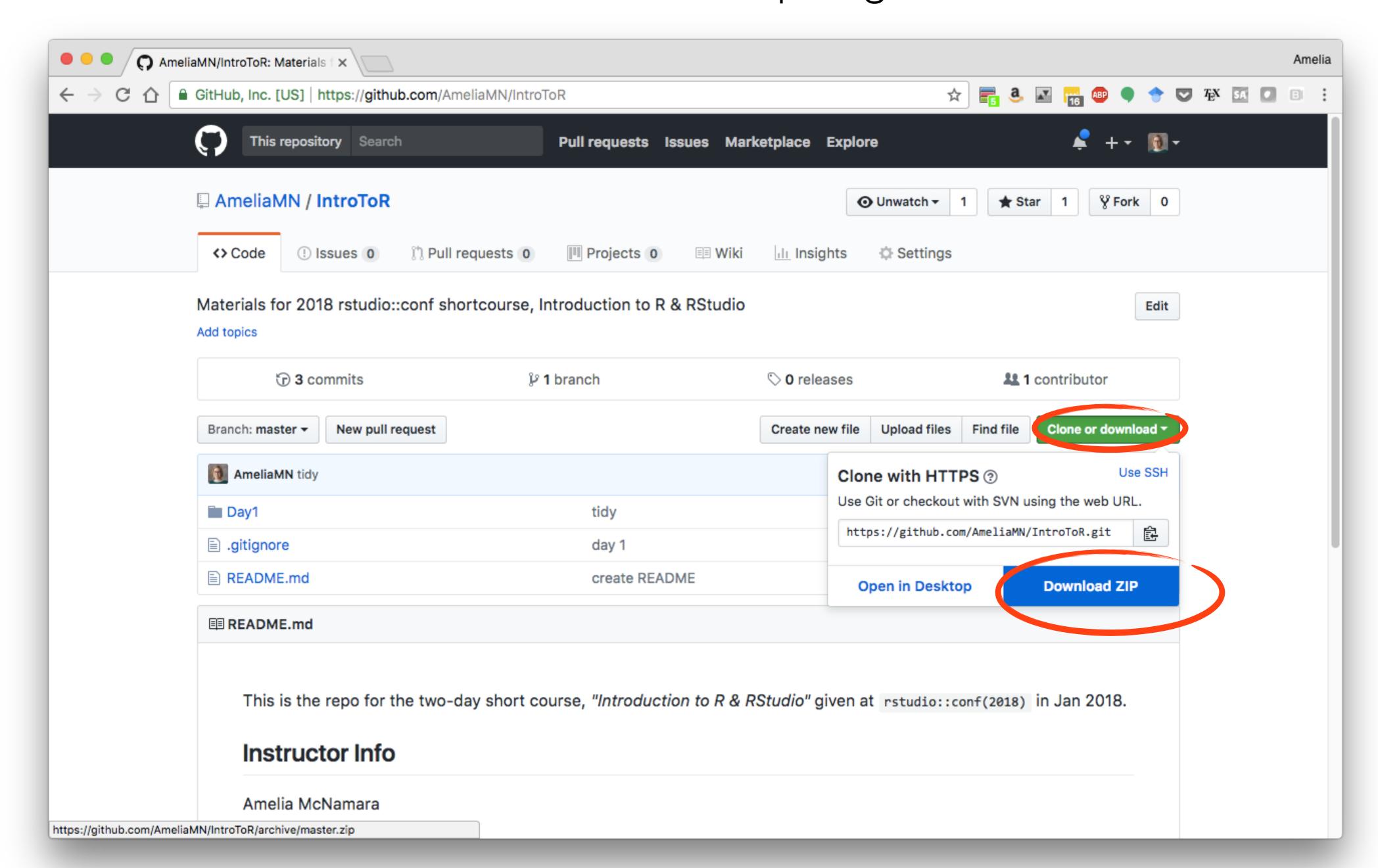
And more

```
install.packages(c("tidyverse", "fivethirtyeight",
"babynames", "nycflights13", "skimr"))
```

Getting our code



Or, download another clean version from https://github.com/AmeliaMN/IntroToR



Getting help

- We've seen the R help functions? and help()
- Google, putting in R as a search term (Google recognizes it now!)
- Search on http://stackoverflow.com/ (add keywords like tidyverse)
- Ask a question of someone near you physically (there are R <u>meetups</u> in many major cities, as well as <u>R-ladies</u> meetups).
- Ask a question on the internet
 - https://community.rstudio.com/ is intentionally friendly to beginners!
 - Asking on http://stackoverflow.com/ is perhaps an intermediate skill
 - I don't recommend asking on <u>R-help</u>
- Ask an expert— you can email me at amcnamara@smith.edu

Thanks to my fantastic TAs

HELLO my name is

Katie

Katie Leap

HELLO my name is

Kelly

Kelly O'Briant

@b23kelly @RLadiesDC

Thank you!

http://bit.ly/day2Feedback