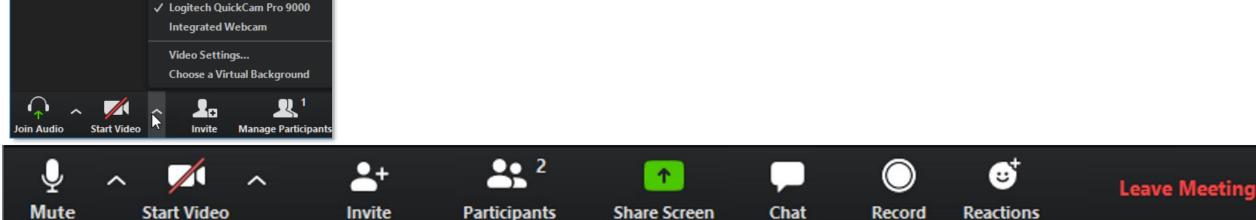
Integrating R

into your work with RStudio and the tidyverse

Thursday, June 18, 2020

Virtual Housekeeping and Your Zoom Controls



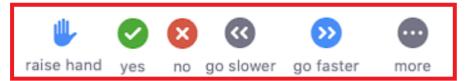
Please leave your
audio muted while
you are not
speaking to help
prevent
background noises.

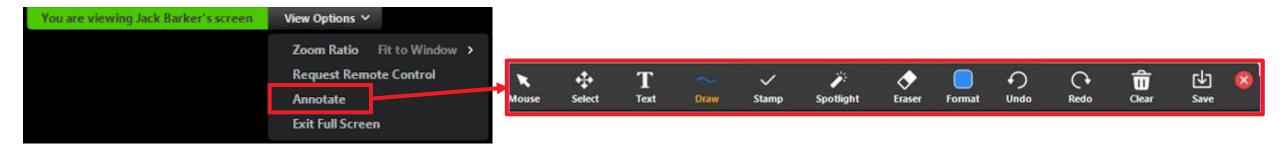
Select a Camera (Alt+N to switch)

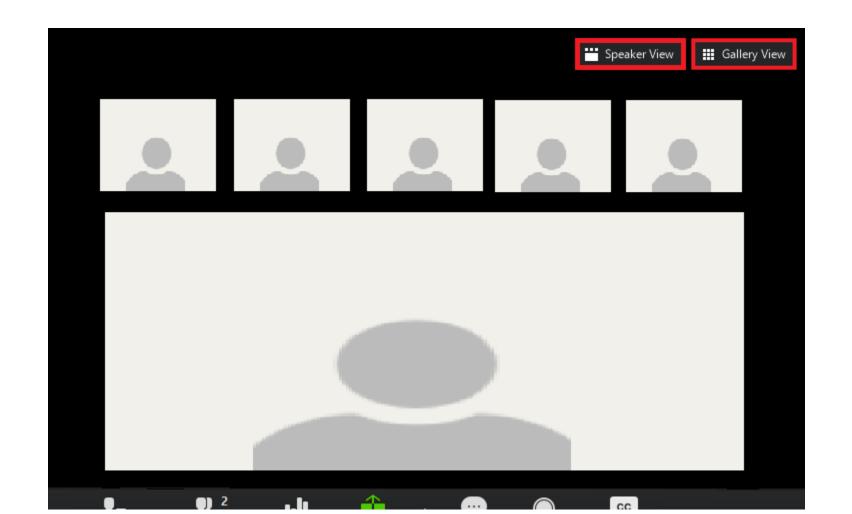
Click to open the

Participants box. This will
allow you to give nonverbal
feedback as well as to raise
your hand.

Click to open the Chat box. This will allow you to chat with Hosts and Participants.









Kaitlyn Dietz *Guana Tolomato Matanzas NERR*



Abby Kuhn *Guana Tolomato Matanzas NERR*



Kim Cressman *Grand Bay NERR*

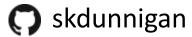
Kimberly.Cressman@dmr.ms.gov





Shannon Dunnigan *Guana Tolomato Matanzas NERR*

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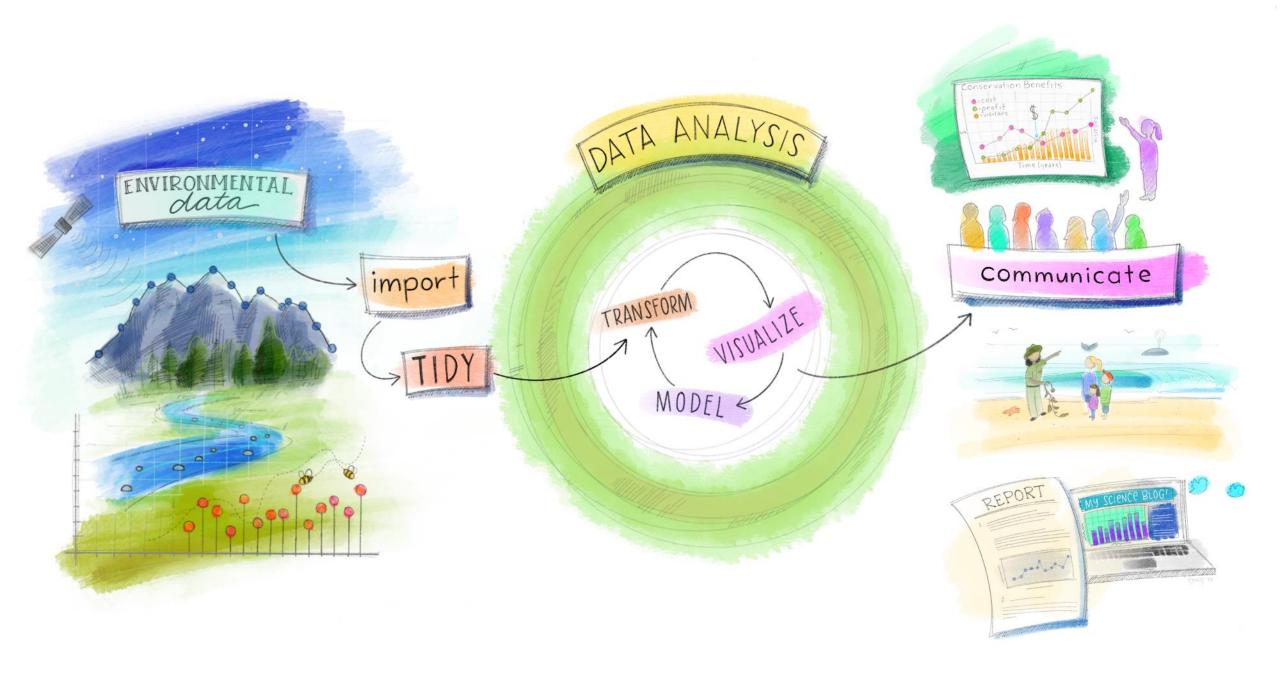


Introduction

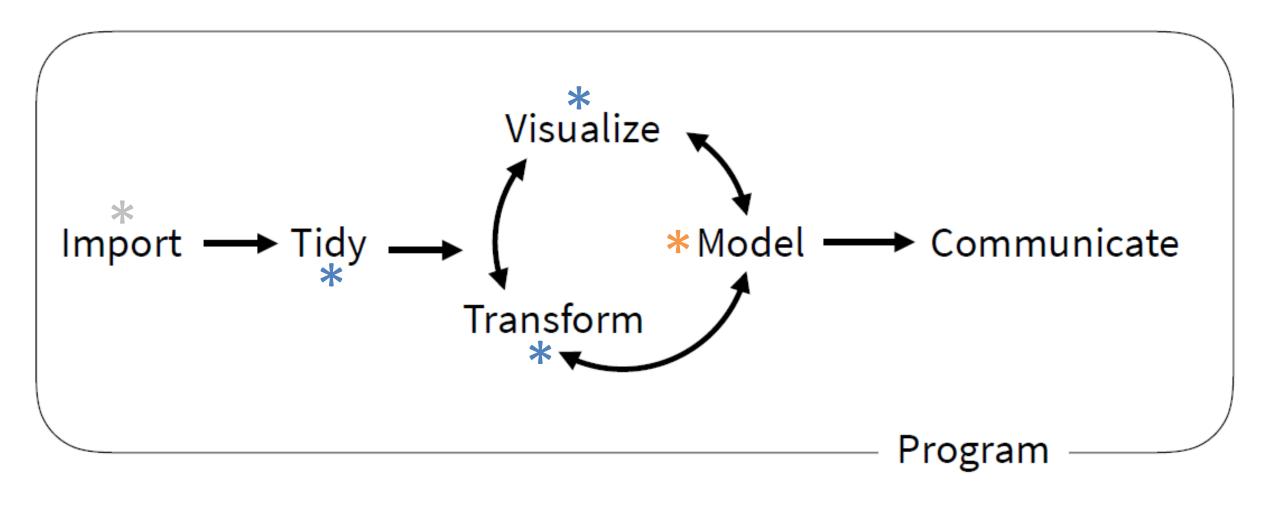


Agenda:

Week	Day 1	Day 2
Week 1	Welcome, Intros, Objectives	Day 1 recap
	Projects and RStudio	02 - Wrangling Data
	01 - Visualize Data	
Week 2	Welcome, Intros, Objectives	Day 1 recap
	03 - More Wrangling	05 - Functions
	04 - Statistical Outputs	06 - Loops



(Applied) Data Science



Tips and tricks to making your R work more productive

1. Save the source, not the workspace

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- 5. Use standardized naming conventions

TL;DR - machine and human readable and plays well with default ordering (put something numeric first).

Left pad other numbers with zeros (to avoid the '10' coming before '01'). Avoid spaces in file names, punctuation, and accented characters.

- 1. Save the source, not the workspace
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- 3. Project-oriented workflow
- 4. Use projects and the 'here' package
- 5. Use standardized naming conventions
- 6. Coding review

```
package::function()
<-
Pipes! `%>%` from the `magrittr` package
```

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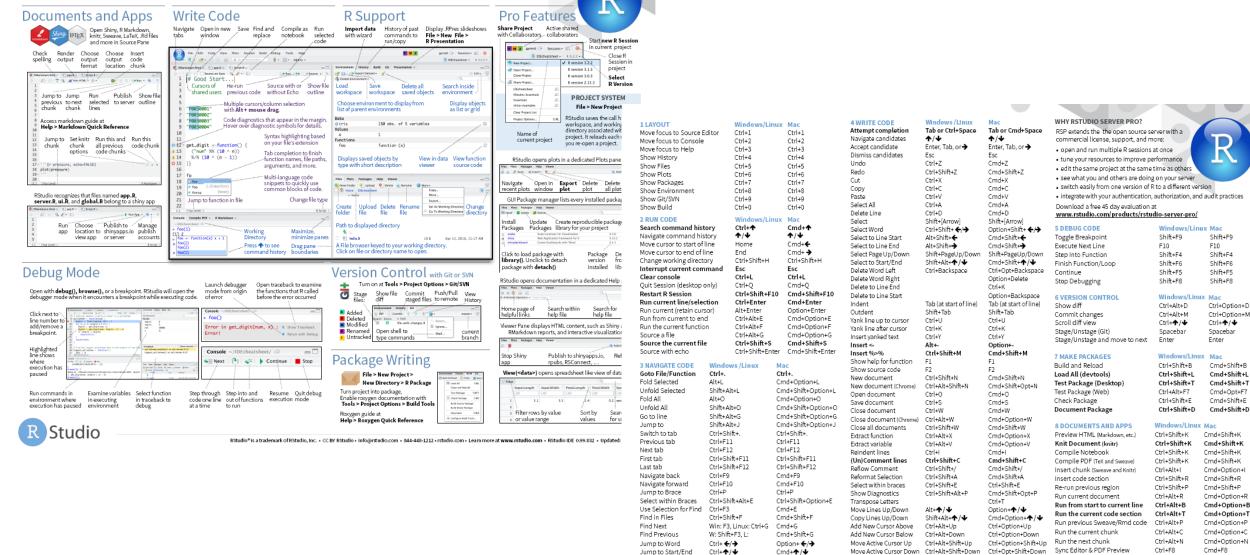
7. Keyboard Shortcuts: there's an RStudio Cheatsheet for that!

alt+- :for <ctrl+enter :to run one or more lines ctrl+shift+m :for %>% ctrl+shift+c :to

We love:

comment/uncomment
ctrl+i :to indent prettily

RStudio IDE :: **cheat sheet**



RStudio® is a trademark of RStudio, Inc. + CC BY RStudio + info@rstudio.com + 844-448-1212 + rstudio.com + Learn more at www.rstudio.com + RStudio IDE 0.1.0 + Updated: 2017-09

Previous plot

Show Keyboard Shortcuts

Next plot

Cmd+F

Cmd+E

Cmd+Shift+J

Find and Replace

Replace and Find

Use Selection for Find

Cmd+Shift+C

Ctrl+E

Ctrl+F3

Ctrl+Shift+.

Toggle Outline

R Studio

Ctrl+Alt+F11

Ctrl+Alt+F12

Alt+Shift+K

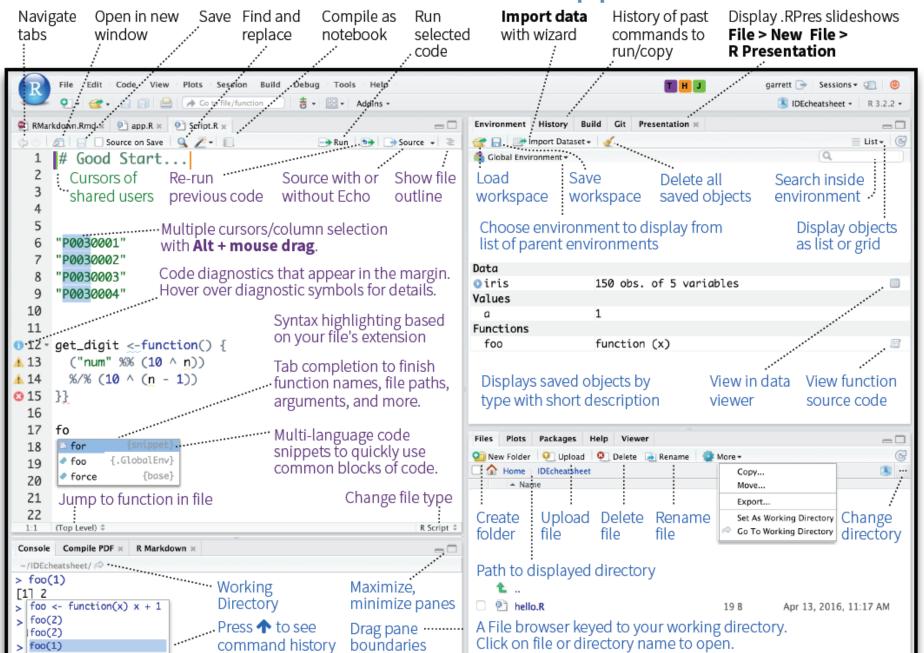
Cmd+Option+F11

Cmd+Option+F12

Option+Shift+R

Write Code

R Support

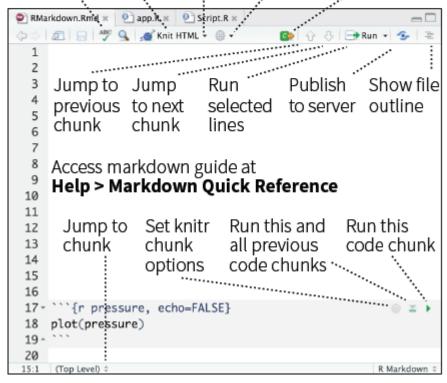


Documents and Apps



Open Shiny, R Markdown, knitr, Sweave, LaTeX, .Rd files and more in Source Pane

Check Render Choose Choose Insert spelling output output output code format location chunk





"Data comes in many formats, but R prefers just one: tidy data."

- Garrett Grolemund

Tidy data



A data set is **tidy** iff:

- 1. Each variable is in its own column
- 2. Each **observation** is in its own **row**
- 3. Each value is in its own cell

Also see these papers, in your "other resources" folder:

Wickham, 2014: Tidy Data

Broman and Woo, 2017: Data Organization in Spreadsheets

www.tidyverse.org

