Introduction to the R Statistical Environment

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ICPSR Day 6

Overview

1. Review

2. Writing your own code

3. Error Messages

Announcements

- Fixed code/data for reshaping data has been posted on Canvas (the issue was how the dataset I made for this saved)
- We have moved quickly. You are all doing very well.
- Office Hours Exist!

ggplot2

- ggplot2 uses layers to create figures
- Start with the core ggplot command: ggplot(data=
  datatname, aes(x= , y= ,)
- The core command established the basics:
  - data to be used
  - x and y axes information
  - where/when color will be applied (can also be established in
    later layers
- After the core command, the layers of the plot are added with
  a +

Today's topic: Your own code

How to Start Writing your Own R Code

- Find a reputable source
- Copy and paste that code you want
- Change objects to your data/variables
- Adapt the code in ways to customize it for what you need (if needed)
- Always save your code

So you get and error message

R Studio gives you some indication of the problems in your code:

- You get the problematic line of code
- The error message itself can tell you something
  (object/function not found)

Resolving Error Messages

Things to check:

1. Did you load/install the right library?
2. Did you set your working directory?
3. Did you run the line of code to create the object?
4. Spelling
5. Punctuation
6. Did you use the correct function?
7. Check that you have the correct class of object.
8. Did you forget an option?

If Nothing Works...

Google is your friend. Look for links from:

- StackOverflow
- StackExchange
- R Bloggers
- Github

Chances are, someone else saw this error and knows how to fix it.

And Now...

To R! But this time, it's your turn!

Until Next Time