

PSC 400

SYRACUSE UNIVERSITY

DATA ANALYTICS FOR POLITICAL SCIENCE

WRAPPING THINGS UP

TODAY

- Quick review of class
- Show & Tell
- Open Paper Workshop

WHAT YOU LEARNED

- **Basic tools to conduct data analysis in R**
 - **Collecting and cleaning data**
 - Recode and create new variables, scraping
 - **Descriptive data analysis**
 - Numerical summaries, graphs
 - **Bivariate relations**
 - **Isolating independent effects of several variables**
 - **For all kinds of data: binary, categorical, continuous, spatial, text**
 - **Communicate your results**

WHAT YOU LEARNED

- **We only scratched the surface**
 - The more you work with R, the more you'll learn and the better you'll become at it
 - More than 10,000 R libraries available
 - Set of libraries called "tidyverse"
- **A lot of resources for learning more R programming yourself**
 - Much of it open source
 - Books, YouTube, online classes etc.

WHAT YOU DID

- What question are you answering?
- What data do you use?
- How do you analyze it?
- What have you found so far?

FINAL PAPER

- What is your research question? Why is it important?
- What data do you use to answer it?
 - Describe dependent and main independent variable in detail (incl. descriptive statistics, graphs)
 - Also discuss control variables
- What is the answer?
 - Describe it in a way that anyone can understand (as little jargon as possible)
 - Use of graphs and plain English encouraged

FINAL PAPER

- Assume I have no idea what you have been working on all semester
 - Paper should be self-contained and explain all relevant steps
- No minimum or maximum length
- Also submit data and R code that allows me to reproduce all numbers, graphs, tables, etc. that are in the paper
 - But you have to include graphs etc. in paper!
- Due date May 18 (next week Tuesday)

COURSE FEEDBACK

- **Please fill out the course feedback**

OPEN PAPER WORKSHOP

- Rest of today and Wednesday:
- Work on your paper and ask me questions