

Precept 5

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POL 345

Agenda

- Check in/logistics
- Sharing questions
- Review
 - Quick R tips
 - For loops vs apply functions
- Precept Questions

Check In/Logistics

- Welcome back from (precept) break!
- Pset 2 is just starting to get graded
- Life happens, I missed my office hours this week
 - Make-up right after my Friday precept (10:30 AM-12:30 PM eastern)

Share

1. Most useful thing you've learned from datacamp
2. Most challenging thing with coding right now
3. Something that was a pleasant surprise this week

Quick R Tips

- In preferences you can change Rstudio's appearance to something you like better!
- Make sure you spellcheck your code (spelling errors = won't run)
- Use *View(object)* to see all the data in your object in spreadsheet-format
- Please remember to hit enter to write long commands on multiple lines (rather than having them go off-screen to the right)
- To run code can use CMD+Enter (instead of just point & click)
- To see what a command does, what arguments it takes, run:
?command

For loops vs apply functions

Demonstration by Jordan

Precept Questions

Context

- Using American National Election Study (ANES) from 1956-2004
- Looking at relationship b/w isolationist tendency & party over time (using independents as the baseline)

Question A

Replicate the fig. on p 9, showing sex in addition to party id

Steps

1. Copy-paste code from previous section
2. Edit/duplicate the loop generation code to create separate matrices of isolationist tendency over time for males & females
3. Edit/duplicate the vector generation code to create vectors of the difference b/w Ds (row 1)/Rs (row 3) & independents for both males & females (4 total vectors)
4. Edit plotting code so you have 4 lines
 - red+solid = R female, blue+solid = D female, red+dash = R male, blue+dash = D male
5. Proper formatting (legend, labels, title, etc.)

Question B

Replicate the fig. on p 9, showing region (South/non-South) in addition to party id

Steps

1. Copy-paste code from previous section
2. Edit/duplicate the loop generation code to create separate matrices of isolationist tendency over time for Southerners & non-Southerners
3. Edit/duplicate the vector generation code to create vectors of the difference b/w Ds (row 1)/Rs (row 3) & independents for both Southerners & non-Southerners (4 total vectors)
4. Edit plotting code so you have 4 lines
 - red+solid = R Southern, blue+solid = D Southern, red+dash = R non-Southern, blue+dash = D non-Southern
5. Proper formatting (legend, labels, title, etc.)

Question C

Interpret the graphs

- Does sex have any influence on the partisanship-isolationist tendency relationship?
- What about region?