

Computing

POLS 209

Preparing for the Exams

Practice Problems on Computing, Part 1

How we'll always use R.

- Start RStudio.
- Set the working directory to whatever project you want to work on.
- Open a new R script to do something new **OR** open a saved script to continue making progress.
- Unless your script runs slowly, you should rerun the entire script after each change.

Data Files

```
nominate.csv
"congress","state","congressional_district","party","name","ideology_score"
100,"USA",0,"Republican","REAGAN",0.747
100,"ALABAMA",1,"Republican","CALLAHAN",0.358
100,"ALABAMA",2,"Republican","DICKINSON",0.349
100,"ALABAMA",3,"Democrat","NICHOLS B",-0.039
100,"ALABAMA",4,"Democrat","BEVILL T",-0.203
100,"ALABAMA",5,"Democrat","FLIPPO R",-0.152
100,"ALABAMA",6,"Democrat","ERDREICH B",-0.065
100,"ALABAMA",7,"Democrat","HARRIS C",-0.087
100,"ALASKA",1,"Republican","YOUNG D",0.253
100,"ARIZONA",1,"Republican","RHODES J",0.392
100,"ARIZONA",2,"Democrat","UDALL M",-0.382
100,"ARIZONA",3,"Republican","STUMP B",0.746
100,"ARIZONA",4,"Republican","KYL J",0.549
100,"ARIZONA",5,"Republican","KOLBE J",0.305
100,"ARKANSAS",1,"Democrat","ALEXANDER",-0.453
100,"ARKANSAS",2,"Democrat","ROBINSON T",-0.029
100,"ARKANSAS",3,"Republican","HAMMERSCHMI",0.266
100,"ARKANSAS",4,"Democrat","ANTHONY B",-0.258
100,"CALIFOR",1,"Democrat","BOSCO D",-0.262
100,"CALIFOR",2,"Republican","HERGER W",0.576
100,"CALIFOR",3,"Democrat","MATSUI R",-0.389
100,"CALIFOR",4,"Democrat","FAZIO V",-0.451
100,"CALIFOR",5,"Democrat","PELOSI N",-0.522
100,"CALIFOR",6,"Democrat","BOXER B",-0.456
100,"CALIFOR",7,"Democrat","MILLER G",-0.506
100,"CALIFOR",8,"Democrat","DELLUMS R",-0.611
100,"CALIFOR",9,"Democrat","STARK F",-0.601
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```

nominate.csv

Search in Sheet

Home Layout Tables Charts SmartArt Formulas Data

Edit Font Alignment Number Format Cells

Paste Calibri (Body) 12 General Conditional Formatting Styles Actions Themes

A1 congress

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1	congress	state	congressional_district	party	name	ideology_score	
2	100	USA	0	Republican	REAGAN	0.747	
3	100	ALABAMA	1	Republican	CALLAHAN	0.358	
4	100	ALABAMA	2	Republican	DICKINSON	0.349	
5	100	ALABAMA	3	Democrat	NICHOLS B	-0.039	
6	100	ALABAMA	4	Democrat	BEVILL T	-0.203	
7	100	ALABAMA	5	Democrat	FLIPPO R	-0.152	
8	100	ALABAMA	6	Democrat	ERDREICH B	-0.065	
9	100	ALABAMA	7	Democrat	HARRIS C	-0.087	
10	100	ALASKA	1	Republican	YOUNG D	0.253	
11	100	ARIZONA	1	Republican	RHODES J	0.392	
12	100	ARIZONA	2	Democrat	UDALL M	-0.382	
13	100	ARIZONA	3	Republican	STUMP B	0.746	
14	100	ARIZONA	4	Republican	KYL J	0.549	
15	100	ARIZONA	5	Republican	KOLBE J	0.305	
16	100	ARKANSA	1	Democrat	ALEXANDER	-0.453	
17	100	ARKANSA	2	Democrat	ROBINSON T	-0.029	
18	100	ARKANSA	3	Republican	HAMMERSCHMI	0.266	
19	100	ARKANSA	4	Democrat	ANTHONY B	-0.258	
20	100	CALIFOR	1	Democrat	BOSCO D	-0.262	
21	100	CALIFOR	2	Republican	HERGER W	0.576	
22	100	CALIFOR	3	Democrat	MATSUI R	-0.389	
23	100	CALIFOR	4	Democrat	FAZIO V	-0.451	
24	100	CALIFOR	5	Democrat	PELOSI N	-0.522	
25	100	CALIFOR	6	Democrat	BOXER B	-0.456	
26	100	CALIFOR	7	Democrat	MILLER G	-0.506	
27	100	CALIFOR	8	Democrat	DELLUMS R	-0.611	

nominate.csv

Normal View Ready

nominate-raw.dta

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```


Project Folder

class-folder

|--data

|--notes

|--R

|--readings

How we'll always use R.

- Start RStudio.
- Set the working directory to whatever project you want to work on (**class-folder** or **project folder**).
- Open a new R script to do something new **OR** open a saved script to continue making progress.
- Unless your script runs slowly, you should rerun the entire script after each change.

Working with Data

The Easy Way

Working with Data

(for .csv files)

- Save the data set **your-name.csv** to the **data** subdirectory of your project folder (e.g., **pols-209**).
- Point and click to choose your working directory when you start RStudio. Session → Set Working Directory → Choose Directory...
- Use `df <- read.csv("data/your-name.csv")` to read in the data.

Packages