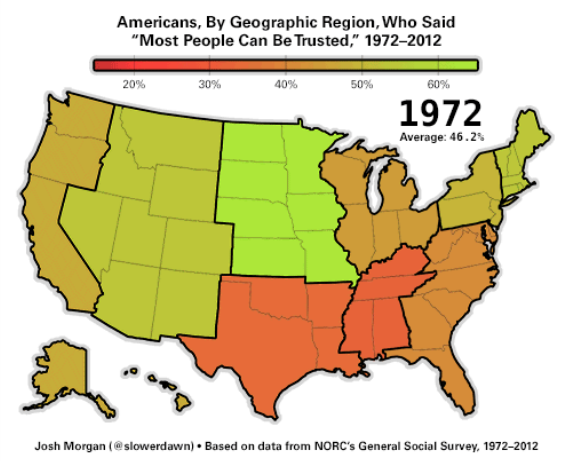
STA205 Project - Exploring the GSS (II)



In the second stage of the final project we analyze the full dataset from the GSS. This is a group assignment, so everyone must contribute and the in the final group report each member's contribution must be listed in appendix section.

Please install the gssr package and read the instruction and example here

Each group member must come up with at least one new question (not explored in your individual report) and make efforts to do analysis trying to answer the question. Group members supplement each other and improve the final report. The final report could include members' results in Part I of the project. You should use at

least one model analysis to support your arguement.

The final report should be at least 10 pages long and well formatted, rubric is at the the end of this instruction.

About the full dataset

You can find documentation about the full dataset here. You can either explore a new question with more interesting explanatory variables or you can explore a response variable in time dimension to see the trend, or both (which is encouraged).

Some suggestions:

- Full documentation about the dataset is a place for reference. You want to scan through the "Introduction" and "Index to Data Set" to get an idea about what variables are included.
- Before you start, you can use online exploration tool to navigate and to do preliminary analysis and even extract a subset of data. However your final Rmd must be accompanied with R code.
- GSS data analysis are often quoted by media. One example is this article. You can get some hints

from these studies and you can also pursue to explore some of the finding in new directions/depth.

- Key trends section lists many interesting trends which should give you some hints about where to start.
- Example usage of the online analysis tool is a good reference for you to start.

Overall grade breakdown:

- Introduction: 5
- Questions and findings: 15
- Conclusion: 5
- Presentation (report): 5 (written part in report)
- Presentation (oral): 5 (oral part on stage)
- Code: 15

Report Submission and Verbal Presentation

Submit your report as

- a pdf (text + plot) with code hidden and
- another file with code shown as an html knitted from an R notebook, as well as

- the Rmd file itself (technical wise you knitr first time to produce pdf with code hidden, then second time with code shown as html). Put this chunk in a code cell at top of Rmd will hide code in knitted doc:

```
opts_chunk$set(echo=FALSE)
```

Each group should do a 10min presentation on 5/7 during regular class period 9-9:50AM. A group member will be randomly picked up by calling R function `sample( c("A", "B", "C" ), 1)` to do the on stage oral presentation–when he/she is presenting, other members can stand aside and give hints. After presentation, questions about the group work may be asked for any group members.