

## DATA VISUALIZATION ASSIGNMENT

Due: April 9

*Note: the requirements for this assignment will likely be a little unclear until after we cover data visualizations in class.*

### OVERVIEW

Graphically representing raw data or results from statistical analyses is often a particularly effective way to communicate key findings. We will cover data visualization in class during the week of March 22. For this assignment, you need to create two data visualizations:

1. Figure of either a univariate distribution or bivariate relationship. Using any data source, create a figure that shows either the univariate distribution of a single variable or a figure that shows a bivariate relationship between two variables (e.g. histogram, box and whiskers plot, dot plot, scatter plot, over time change).
2. Figure of predicted regression results. Using any data source, use margins/marginsplot to create a figure that shows predicted results from a regression model (e.g. OLS, logit, ologit, mlogit).

### OTHER DETAILS

- Include your name and data source as a “note” in each figure
- Turn in your figures as a PDF on Canvas
- For each figure, write a short paragraph that explains the figure (data source, variables, main finding or findings). Turn in the document on Canvas along with your figures
- For your figure of predicted regression results, you may want to explore interactions terms, squared terms, or over time changes
- You’re welcome to use any data source. Keep in mind that you could use the cumulative file of the GSS to look at over time changes. You could also use a single GSS cross-section other than 2018—maybe there is an especially interesting question that was only asked in a previous year.
- When making your figures, remember you want to honestly, accurately, and clearly represent the underlying data/findings. Be thoughtful about your decisions related to colors, fonts, axis scales, titles, labels, etc.
- You need to turn in your own figures, but I strongly encourage you to work on the assignment together and help each other troubleshoot issues