Homework #5

POSC 3410 - Quantitative Methods in Political Science

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This homework assignment will refer to the 1-wvs-usa-abortion.R script I wrote and made available on the course's Github repository.¹ This is a sample from six waves of World Values Survey isolating just the responses in the United States. I offer a codebook for this data set on my Github, which I encourage the student to read.² Answer the following questions in two to three sentences each, unless otherwise noted.

- 1. Get a histogram of the dependent variable (aj). How would you describe the distribution of this variable? Would you treat this as an interval-level measurement? Why or why not?
- 2. Run Model 1 (M1). What is statistically associated with attitudes toward the justifiability of abortion and in what direction? Your answer should be five to seven complete sentences.
- 3. Look at the intercept for Model 1. What is the baseline? Why might this baseline be misleading?
- 4. Run Model 2 (M2). Notice the statistical significance of the coefficients didn't change but the interpretability of the coefficients did. What does the intercept communicate in Model 2 in substantive terms? What appears to have the largest effect (in magnitude) on the justifiability of abortion in the United States?
- 5. Run Model 3 (M3) and plot the interactive relationship of age on attitudes toward abortion. What do you see?

Extra Credit

6. Run Model 4 (M4) and plot the random effect. What do you think this communicates about the change in attitudes toward abortion over time?

¹https://github.com/svmiller/posc3410/blob/master/homeworks/hw5/1-wvs-usa-abortion.R

²https://github.com/svmiller/wvs-usa-abortion-attitudes/blob/master/README.md