

Homework 2

SOCI 502B: Graduate Statistics (Fall 2017)

10 points

Due: December 13, 2017

Overview:

In this assignment, you'll be completing 1 problem using SPSS (or R). This problem covers topics from Chapter 9 in your textbook.

Problem 1 (*t*-test)

- Using the GSS 2014 data set (`GSS2014_final`)¹, report the mean “political (conservative) views” (`polviews`) for each racial category (`race`).
 - First, the race variable is listed as such:
 - * race: 1 = white; 2 = black; 3 = other
 - Recode race variable (into the same variable) as such:
 - * race: 1 = white; 2 = non-white
 - Next, the political views variable is listed as nominal. Change the variable from nominal to interval/ratio (scale). High scores indicate more conservativeness.
- Given the number of people in the sample, report the degrees of freedom for the bivariate relationship between the “race” variable (`race`) and the “political (conservative) views” variable (`polviews`).
- What is the value of the *t* statistic?
- Correctly and fully report and interpret the *t* statistic (using the example from our lecture slides, including the *t* value, the degrees of freedom, and the p-value)

¹For SPSS, use `GSS2014_final.sav`. For R, use the R script and `GSS2014_final.csv`