**Research Questions**

The purpose of this note is to flesh out the questions I want to answer to guide my work.

1. What is DRA’s method for evaluating the partisan characteristics of maps?   
     
   Write up the elements of the methodology we used: composite elections, the specific elections, fractional seat probabilities, inferring a seats­­–votes curve using proportional shift.
2. How does using the composite election compare to the means of the individual elections for these?
   1. The statewide Democratic two-party vote share ()
   2. District Democratic two-party vote shares ()
   3. Democratic two-party seat shares () for vote shares () of the inferred seats–votes curve  
        
      Question: What range around can we constrain this analysis to? Most of the range 25–75% is not realistic for a state-map, and a narrower range should yield an even tighter result. Probably depends on the answer to #5 below.
   4. Partisan analytics  
        
      For each state, calculate the mean , the SEM, and the RSE.

*Note: Answering the next questions about* actual *election results requires processing the 2022 election like I have for previous election results and imputing the results for uncontested races.*

1. How much do actual 2022 statewide congressional Democratic two-party vote shares () vary from the statewide Democratic two-party vote share () for each state’s composite?
2. Given actual statewide congressional Democratic two-party vote shares (), how well do inferred seat shares () track actual seats ()?  
     
   For each map, interpolate the seat fraction () for the actual statewide congressional Democratic two-party vote share () and then the implied whole seats (). Compare predicted seats () to actual seats ().

[end]