**ANES R Exercise**

Recoding variables, calculating descriptive statistics, and conducting bivariate hypothesis tests.

**Part 1: Recoding Variables and Data Wrangling**

1. Categorical Nominal (factor)
   * Voter turnout (V202109x).
     + Rename “turnout”.
     + See line 215 of *1.intro.p2.R*
   * Marital status (V201508).
     + Rename “marital.status”
     + Create two categories: Single (6) and Married (1 and 2).
     + Treat Refused (-9), Don’t know (-8), Widowed (3), Divorced (4), and Separated (5) as NA
2. Categorical Ordinal (factor)
   * Ideology (V201200).
     + Rename “ideology”
     + See *1.ideology.R*
   * Trust in Experts for Public Policy (V202306).
     + Rename “trust.experts”
     + Treat categories coded -9 to -5 as NA
     + Reorder categories so “Trust both the same” is in between “Trust ordinary people more” and “Trust experts more”
3. Interval (numeric)
   * Age (V201507x).
     + Rename “age”.
     + See line 215 of *1.intro.p2.R* and line 480 of *2.descriptive.R*
   * Biden feeling thermometer (V202143)
     + Rename “biden.ft”
     + See homework 2.
     + Code all negative values as NA
   * Biden affect (V202435).
     + Rename “biden.affect”
     + Code all negative values as NA

**Part 2: Descriptive Statistics**

Provide summary statistics for turnout, marital.status, ideology, trust.experts, age, and biden.affect. *2.descriptive.R*, starting at line 275, shows how to combine all the variable manipulation and use it to put all descriptive statistics into one table.

1. For the categorical variables, you should find the percentage of respondents in each category. See *2.descriptive.R*, starting at line 258.
2. Find the mean, median, and mode for the interval variables.

**Part 3: Bivariate Tests**

Conduct two separate chi-square tests (which are between two categorical variables), two separate difference of means tests (which are between a categorical variable and interval variable), and one correlation (which is between the two interval level variables). [You can use similar code that was used for the Chapters 6 and 8 R exercises for the chi-square and difference of means tests.]