# Activities

1. Start by loading any necessary packages, the “tidyverse”, “afex”, and “Rmisc” packages are recommended.
2. Read in the data file " Grossman and Kross 2014 Study 2.csv". Explore the data file using View(). Note, you will not analyze all of these variables. Try to find the variables that are relevant to the study description above.
3. The conditions are coded as numerical values, for ease of interpretation later, it might be useful to use the mutate() function, and the case\_when() function to code condition so 1 = "SI", 2 = "SD", 3 = "OI", 4 = "OD”. If you’re game, use the factor() function to specify the order of the levels to SI, SD, OI, OD.
4. Conduct a one-way ANOVA to determine if there is a significant difference between the conditions on wisdom, the aov\_car() function is recommended.
5. Next, you want use planned contrasts to test particular differences. Specify a list of contrasts to determine whether:
   1. The self-immersed condition was significantly lower in wisdom, relative to the other-immersed and other-distanced condition (the typical Solomon's paradox effect).
   2. That taking a distant perspective increases wisdom relative to taking an immersed perspective when dealing with one's own problems (self-distancing results in significantly higher levels of wisdom, relative to self-immersion).
   3. Distancing vs. immersion increases wisdom when contemplating other people's problems (other-distance vs. other-immersed conditions).
   4. Self-distancing eliminates the increased wisdom typically found in reasoning about others (self-distanced condition is significantly different from the other-immersed and other-distanced conditions).
6. Create the reference grid using the lsmeans() function on your overall ANOVA, then test your contrast list with the contrast function.
7. Prepare an APA-style results section to describe each of the analyses conducted above.
8. Generate a bar graph to depict the results for the one-way ANOVA. Don't forget to include error bars that reflect the +/- 1 standard error of the mean. (You may want the SummarySE() function from Rmisc to generate the stats for plotting).