# Activities

1. Start by loading any necessary packages, the “tidyverse”, “afex”, and “Rmisc” packages are recommended.
2. Read in the data file "Bastian Jetten and Ferris 2014 Experiment 1.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 0 = "Control", & 1 = "Pain". This is also a good opportunity to add an ID variable, and compute a score you’ll need later that reflects the mean of the seven items used to measure bonding (group101, group102, group103, group104, group105, group106, group107); Name this new variable BONDING\_MEAN.
4. You first run an analysis to test whether the pain manipulation was successful. Conduct a t-test to compare participants in the pain condition vs. the control condition for the pain intensity and pain unpleasantness variables (assume variances are equal).
5. Next, you want to examine whether the manipulation led to differences in positive and negative affect between the conditions. Perform t-tests to explore this possibility.
6. You also want to examine whether the manipulation was more threatening or challenging for the pain condition compared to the control condition. Perform a t-test to explore this possibility.
7. Finally, to test the main prediction, conduct a one-way ANOVA to determine whether the manipulation led to a difference in group bonding. To conduct this test, perform a one-way ANOVA with CONDITION as the independent variable and BONDING\_MEAN as the dependent variable.
8. Prepare an APA-style results section to describe each of the analyses conducted above.
9. Generate a bar graph to depict the results. Don't forget to include error bars that reflect the 95% confidence intervals (use the SummarySE() function and then ggplot the output).