# Activities

1. Start by loading any necessary packages, the “tidyverse”, and “afex” packages are recommended.
2. Read in the data file “Maglio and Polman 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 stations and orientations 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 station so 1 = "Spadina", 2 = "St. George", 3 = "Bloor-Yonge", & 4 = "Sherbourne" (keep that order if you can), and code orientation so 1 = "Travelling East", 2 = "Travelling West". This is also a good opportunity to add an ID variable.
4. Perform the two-way ANOVA to test whether orientation (toward or away from) interacts with Station (Spadina, St. George, Bloor-Yonge, Sherbourne).
5. Split the file based on Station, then perform independent samples t-tests to determine if the effect of orientation is significantly different at each station.
6. Generate a line graph to depict the interaction between orientation and station (you might find the stat\_summary() geom useful).
7. Prepare an APA-style results section to describe each of the analyses conducted above.