Homework 4

The homework is in this format to facilitate you showing your code and output. Render the document when you are finished and submit it on Canvas. If you have trouble rendering to Word, try format: html instead. If you are still having trouble, you can always copy and paste your code and output (or screenshots of the output) into a Word document. What is important is that we can see both your code and its output.

1. Start a new R session. Before you can read in the data, load the tidyverse set of packages. Then read in the data.
2. Using the NLSY data, make a scatter plot of the relationship between hours of sleep on weekends and weekdays. Color it according to region (categorical).
3. Replace geom\_point() with geom\_jitter(). What does this do? Why might this be a good choice for this graph? Play with the width = and height = options. This site may help: https://ggplot2.tidyverse.org/reference/geom\_jitter.html
4. Sticking with geom\_jitter(), use the shape = argument to map the sex variable to different shapes. Change the shapes to squares and diamonds. (Hint: how did we manually change colors to certain values? This might help: https://ggplot2.tidyverse.org/articles/ggplot2-specs.html)
5. Add a title, better axis labels, and better legend titles to the plot. (Hint: https://ggplot2.tidyverse.org/reference/labs.html)