**5202, Week of Apr 17**

Using Rstudio, construct a script that reads in the relevant data file, and creates results necessary to answer the following questions.

1. Make a plot that compares differences in x2 between groups.

2. Make a plot that compares differences in y2 between groups.

3. Make a plot that shows the relationship between x2 and y3.

4. Make a plot that shows the relationship between x1 and y5.

5. Provide statistical support for 1 through 4 above, including supporting diagnostic plots and tabulated results. Revise your plots and statistical support iteratively, if necessary, based on what you learn.

6. Choose one of the relationships examined above. If you subsample the data, at approximately what sample size does statistical significance disappear, for which results?