Lab 2 Activity

In this lab activity we are going to use the attitude dataset, which is already loaded into R.

- 1. Run help("attitude") to get some info on the data and the meaning of each variable. You can also run View(attitude) to open the data in the data viewer window.
- 2. plot rating on the y-axis and complaints on the x-axis. If you were to run a regression, do you think the slope (b_1) will be positive or negative? Why?
- 3. Run a linear regression with complaints predicting rating.
 - What do you conclude about the relation between rating and complaints?
 - How much would we expect rating increase to be on average if complaints increased by 3 units?
- 4. Run a *standardized* regression with complaints predicting rating. What changes do you see in the summary() output?
- 5. What is the predicted value of rating in standardized units when complaints is 1 standard deviation below average?

Tricky questions

- can you convert this value of rating back into unstandardized units? (HINT: you will need to use the mean and standard deviation of the original rating variable)
- How do you get the same value using the unstandardized regression equation? (HINT: you need to use the mean value and standard deviation of the complaints variable)

Some R Practice