Classwork 5.2

PRAISESTUDY <- read.csv("http://bit.ly/muellerdweck\_study1", header=TRUE)

PRAISESTUDY <- filter(PRAISESTUDY, FEEDCODE < 2)

* Let’s take a look at PS2 -- just a single histogram, what’s the shape?
  + If we made an empty model of PS2, how should we interpret this number?
  + Even in a skewed distribution, will the empty model estimate the mean?
  + Will the mean balance the errors even in a skewed distribution?
  + If we shuffled PS2 between the two FEEDBACK groups and then we fit a new empty model using lm(), would we get the same empty model? Why?
* If we shuffled PS2, would our actual sample look similar to those random shuffles?
  + http://bit.ly/cw5-2
* If we shuffled PS3, would our actual sample look similar to those random shuffles?
* Without filter: Does **FEEDBACK** explain any of the variation **PS2**? **PS3**?
  + Which one looks like **FEEDBACK** explains some of the variation?  (PE)
  + Review definition of “explaining variation”
  + What are we looking at when we make this decision? (PE)
  + How would we write a word equation for when **FEEDBACK** explains some of the variation? How would we write a word equation for when **FEEDBACK** does not explain any of the variation?
  + Do PE questions at the end of this sequence