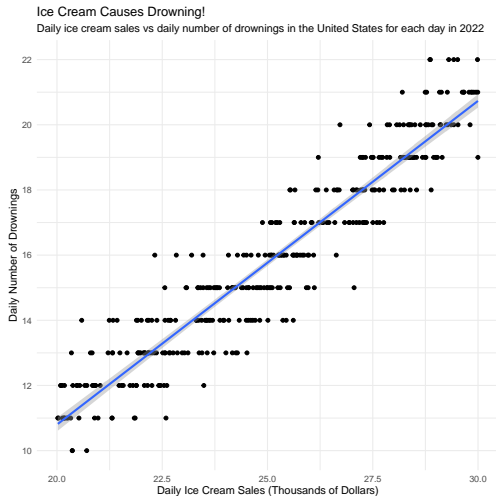


Week 1 Friday

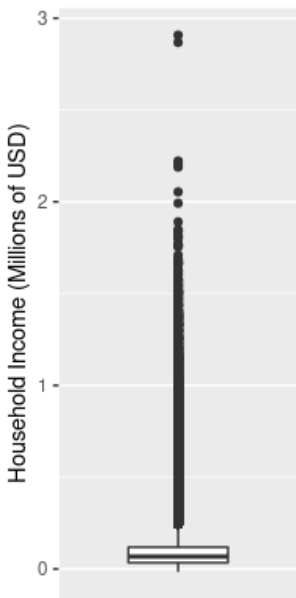
Make sure you know your neighbors' names. Then take 2 minutes to discuss the following with them:



Summarizing Data 1

The 2019 Public Use Microdata Sample (PUMS) from US Census Bureau provides data about household income for 1,276,716 households. This distribution is depicted to the right.

1. Which of the following accurately describes the distribution?
- (A) The distribution is left skewed.
 - (B) The distribution is right skewed.
 - (C) The distribution has no skew.
 - (D) None of the above.

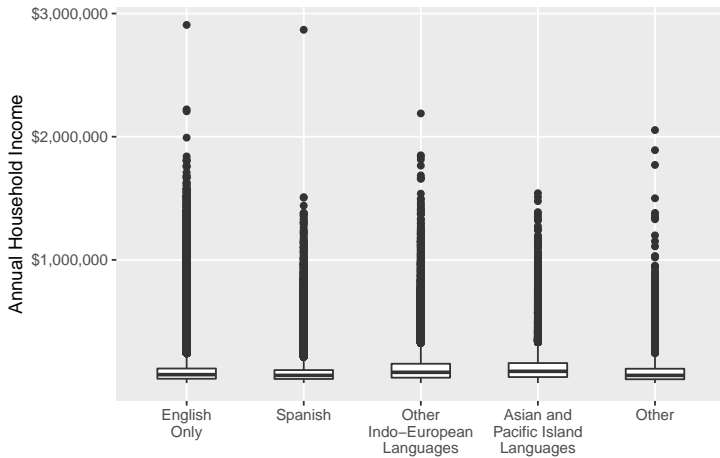


The same data set by the US Census Bureau also tells us the household language for all of the 1,276,716 households.

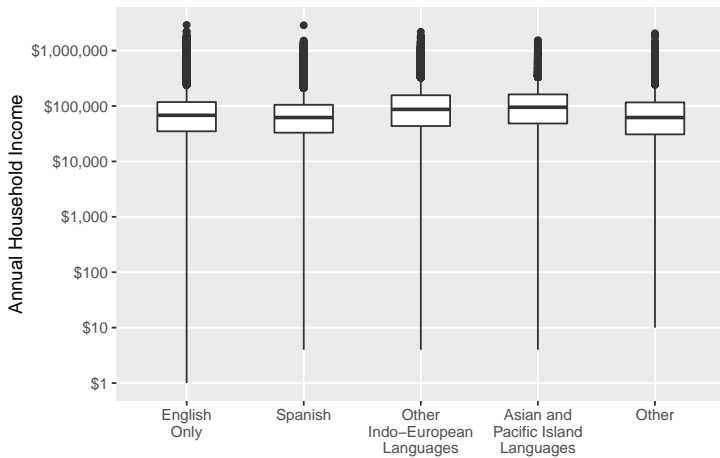
2. If we wanted to compare the distribution of household income based on household language, we might use a...

- (A) Scatter plot.
- (B) Side-by-side bar plot.
- (C) Mosaic plot.
- (D) None of the above.

If you're curious...

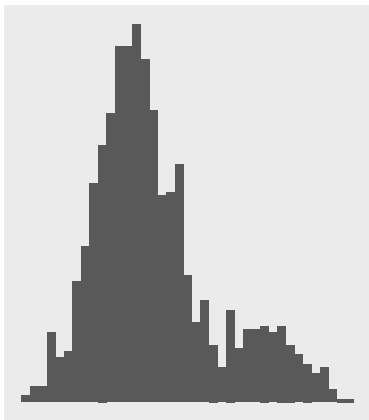


A slightly clearer visualization...?



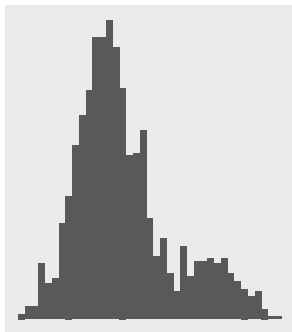
A histogram of a numerical variable x is depicted to the right.

3. Which of the following is true about x ?

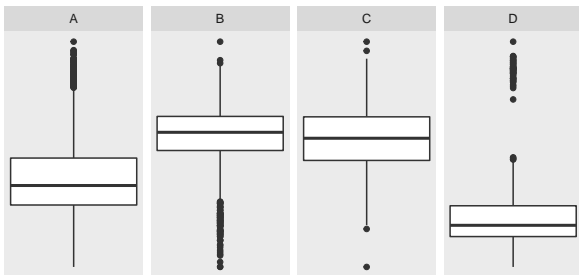


- (A) The mean is greater than the median.
- (B) The median is greater than the mean.
- (C) Can't say / None of the above.

A histogram of a numerical variable x is depicted to the right.



4. Which of the box plots below might be a box plot of x ?



5. You are interested in find out how much UCSD students sleep per night. You acquire a list of all UCSD students from the registrar and use it to randomly sample 100 CC students. You then have each of those students record how long they sleep over the course of a quarter. Afterwards, you look at the data and find that, on average, they slept 6.1 hours per night.

The number 6.1 is a...

- (A) Statistic.
- (B) Parameter.
- (C) None of the above.