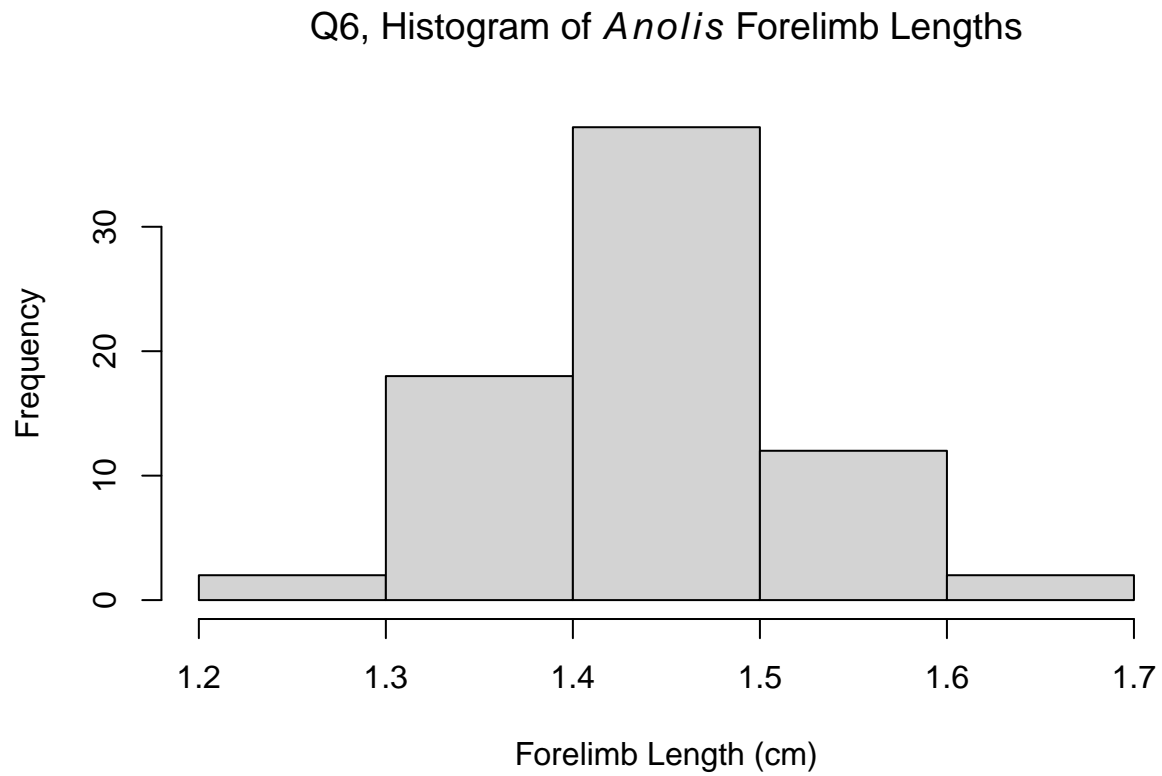# Data For Online Quiz #1

2024-04-04

The following document will help you answer questions 6-10 of the online quiz. It will test your ability to use statistical terminology to describe the data presented. I will read in some data and then we can look at some plots together.

The questions on the online quiz will remain as multiple choice.

Question 6

We will start by examining a grouped frequency distribution of *Anolis* lizards and their forelimb lengths.
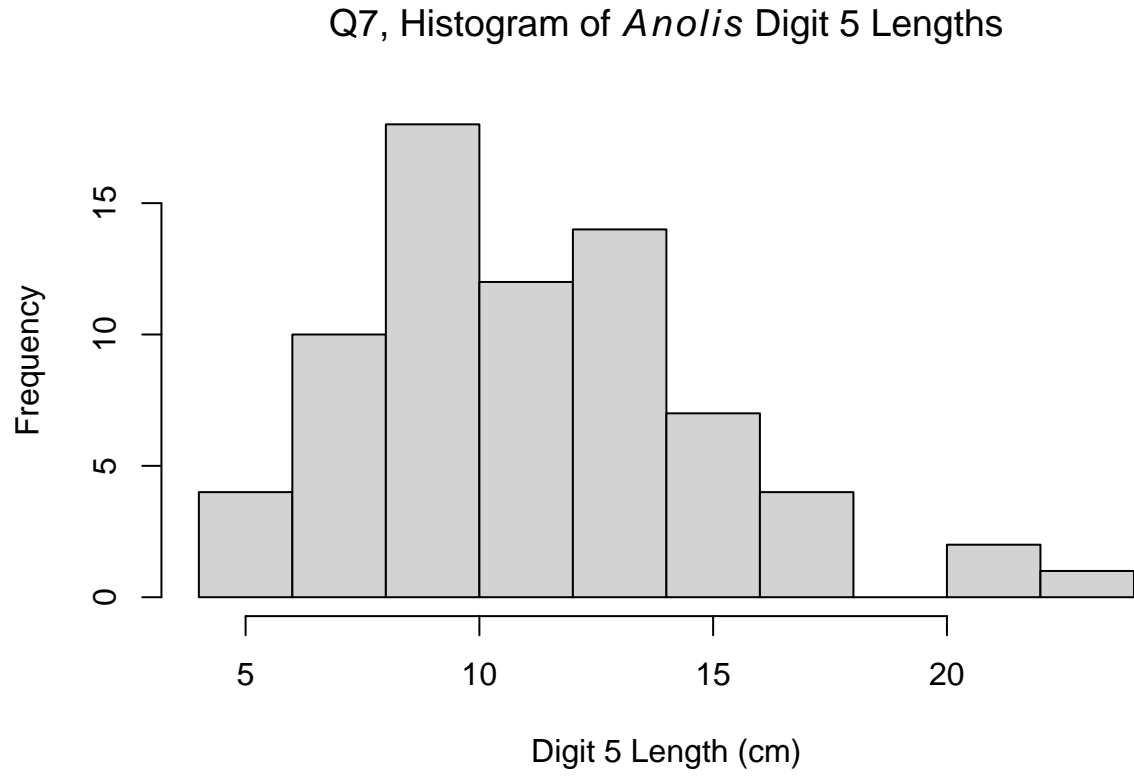
View the histogram of *Anolis* forelimb lengths for Q6. What shaped frequency distribution does this data most closely adhere to?

Q6, Histogram of *Anolis* Forelimb Lengths

Question 7

We will now look over distribution of digit lengths in our sample.

The histogram shows the distribution is skewed. In what direction is the data skewed?

Q7, Histogram of *Anolis* Digit 5 Lengths
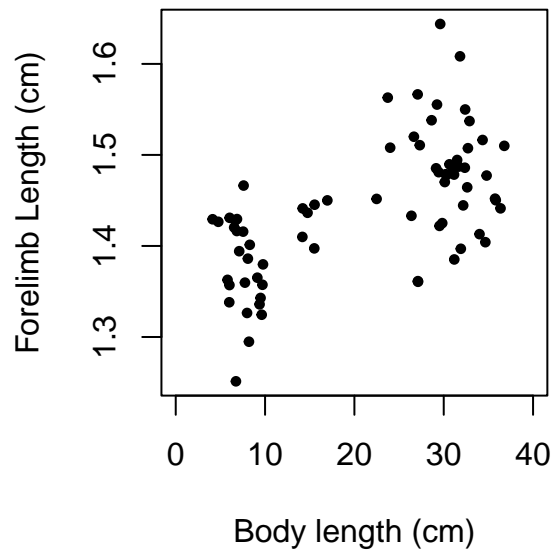
Digit 5 Length (cm)
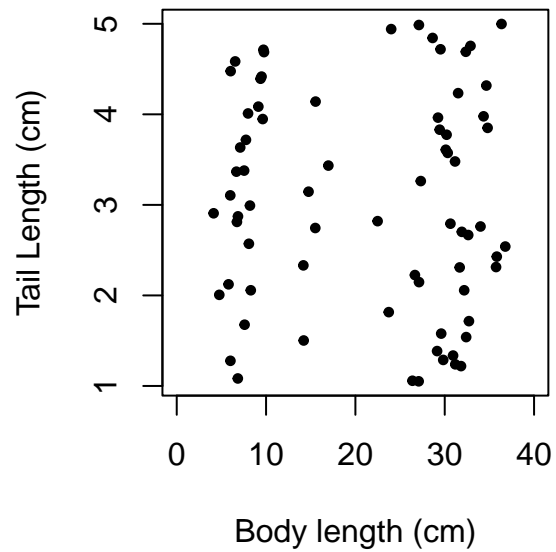
Question 8 and question 9

We will now look over distribution of limb and tail lengths in our sample.

Describe the type of correlation (or lack thereof), and for question 9 mention which measure is the independent variable and dependent variable for plot 8a.

Q8a, *Anolis* body length by forelimb length

Q8b, *Anolis* body length by tail length

Question 10

We will now look over a line plot.

On your online quiz list what the data type is for each variable (*i.e.*, continuous, discrete, categorical). I have included a readout of the raw data used to make this plot as it may be helpful to answer question 10.

```
##  Stage BodyLength
##      1   5.525855
##      2   6.107014
##      3   6.749294
##      4   7.459123
##      5   8.243606
##      6   9.110594
##      7  10.068764
##      8  11.127705
##      9  12.298016
##     10  13.591409
##     11  15.020830
##     12  16.600585
##     13  18.346483
##     14  20.276000
##     15  22.408445
##     16  24.765162
##     17  27.369737
```


Q10, Body length through 17 stages