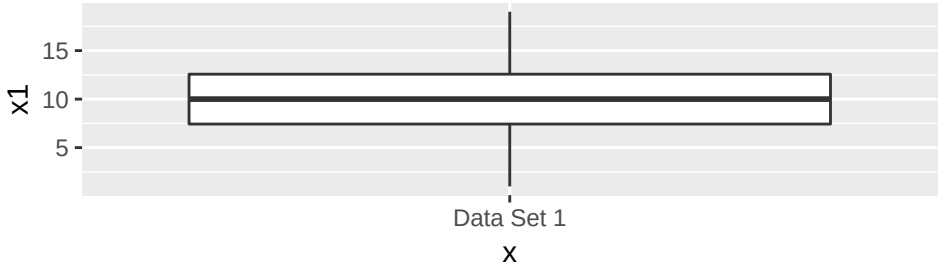
Boxplots, histograms, and density plots, oh my!

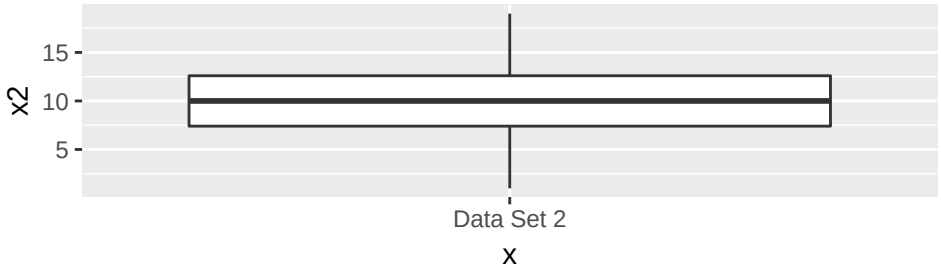
February 6, 2018

Here are some box (and whiskers) plots of four different data sets:

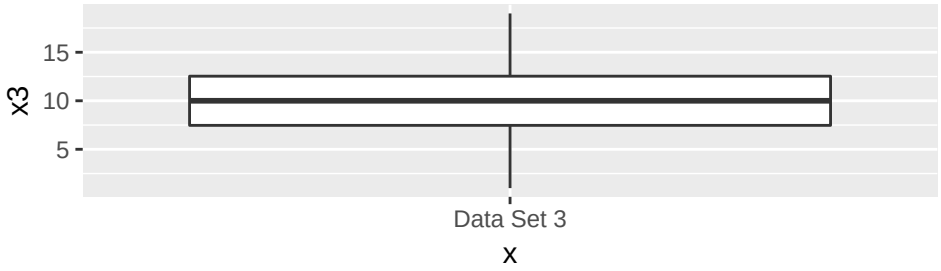
```
ggplot(data = example_data, mapping = aes(x = "Data Set 1", y = x1)) + geom_boxplot()
```



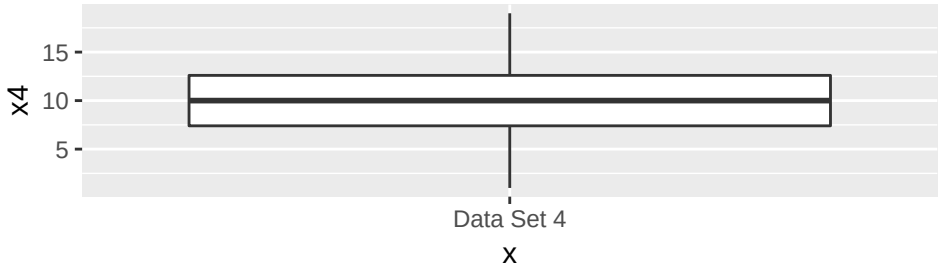

```
ggplot(data = example_data, mapping = aes(x = "Data Set 2", y = x2)) + geom_boxplot()
```




```
ggplot(data = example_data, mapping = aes(x = "Data Set 3", y = x3)) + geom_boxplot()
```



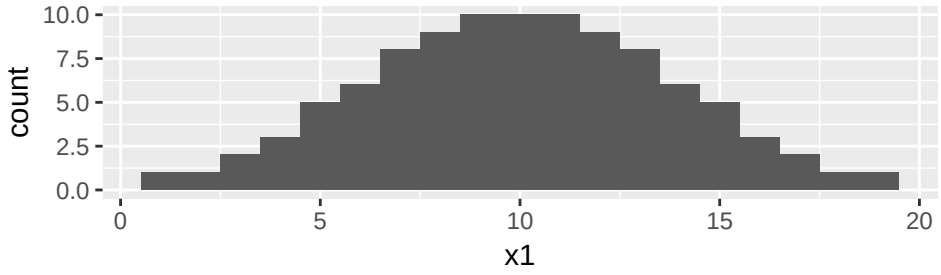

```
ggplot(data = example_data, mapping = aes(x = "Data Set 4", y = x4)) + geom_boxplot()
```



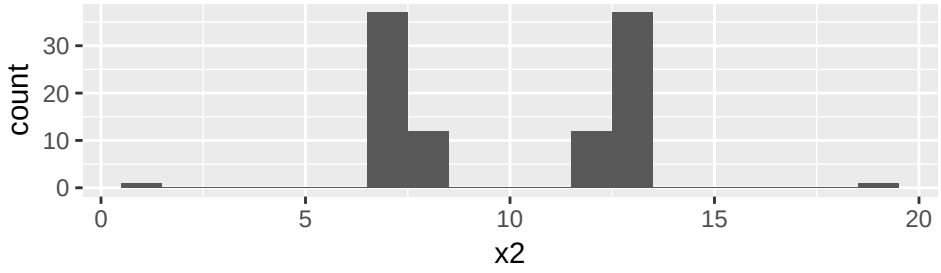
What can you tell me about the distributions based on these box plots? **Shape**? **Outliers**? Anything else?

Here are some histograms of the same data:

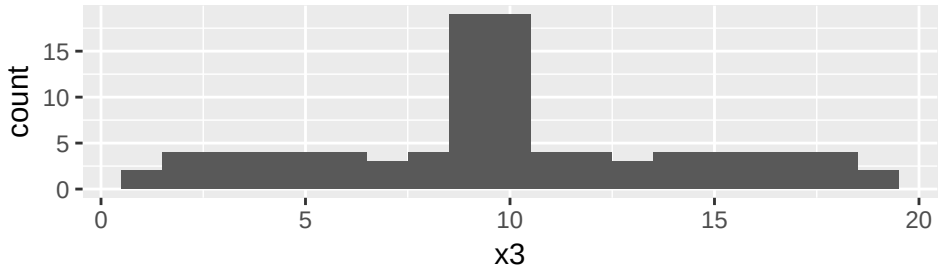
```
ggplot(data = example_data, mapping = aes(x = x1)) + geom_histogram(binwidth = 1)
```



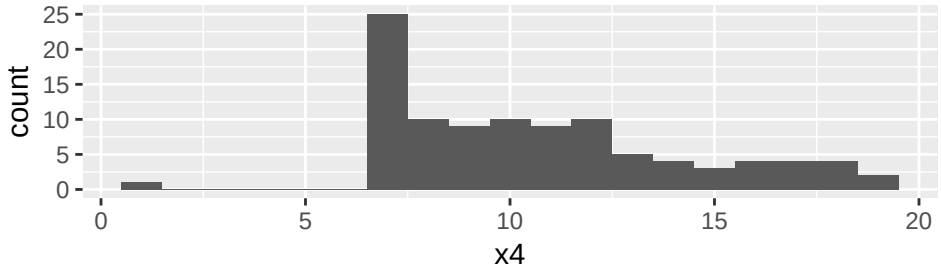

```
ggplot(data = example_data, mapping = aes(x = x2)) + geom_histogram(binwidth = 1)
```




```
ggplot(data = example_data, mapping = aes(x = x3)) + geom_histogram(binwidth = 1)
```



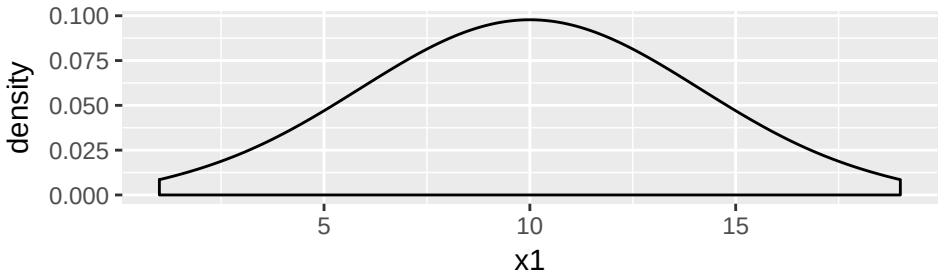

```
ggplot(data = example_data, mapping = aes(x = x4)) + geom_histogram(binwidth = 1)
```



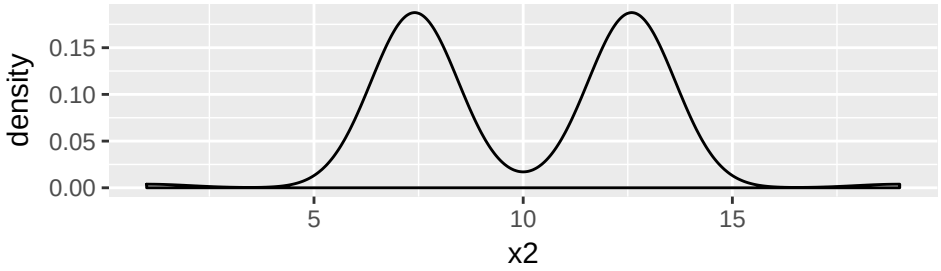
What can you tell me about the distributions based on these histograms? **shape**? **outliers**? Anything else?

Here are some density plots of the same data:

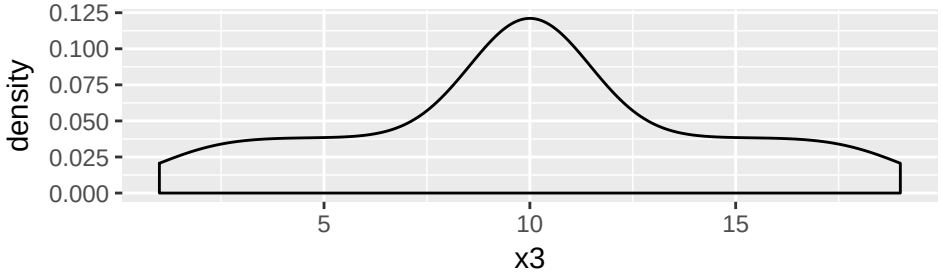
```
ggplot(data = example_data, mapping = aes(x = x1)) + geom_density()
```



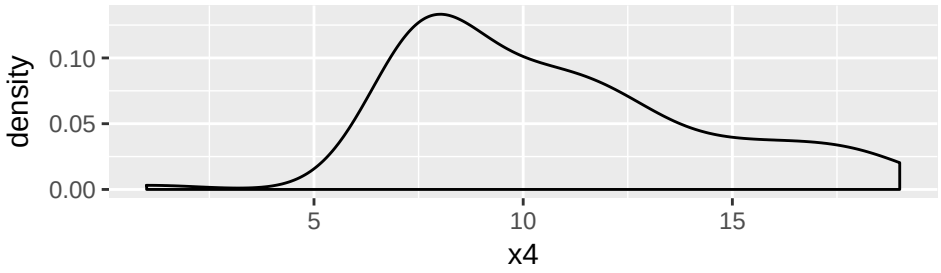

```
ggplot(data = example_data, mapping = aes(x = x2)) + geom_density()
```




```
ggplot(data = example_data, mapping = aes(x = x3)) + geom_density()
```




```
ggplot(data = example_data, mapping = aes(x = x4)) + geom_density()
```



What can you tell me about the distributions based on these density plots? **shape**? **outliers**? Anything else?