

To obtain the dataset for today's lab, execute the following code:

```
install.packages('UsingR')  
library(UsingR)  
data(normtemp)
```

1. Use the *normtemp* dataset to answer the following:
 - a. Determine the following statistics for the variable **temperature**:

Minimum	
Maximum	
Mean	
Standard Deviation	

- b. Does **temperature** appear to be normally distributed?
 - c. Create box plots for **temperature**. Are there any outliers? Display a reference line at 98.6.
For horizontal line: `+ geom_hline(yintercept=98.6)`
For vertical line: `+ geom_vline(xintercept=98.6)`

Does the median body temperature seem to be 98.6 degrees?

2. Using the *Ameshousing* dataset from our in-class examples, run some distributional analysis on **Sale_Price**, **Log(Sale_Price)**, and **Gr_Liv_Area**.
 - a. Create histograms of these three variables.
 - Overlay a kernel density estimator of the variables.

- b. Create a QQ Plot for both **Sale_Price** and **Log(Sale_Price)**. Based on these exploratory procedures, which version of the price information (**Sale_Price** or **Log(Sale_Price)**) would you say is closer to being normally distributed?
3. Using the *Ameshousing* dataset from our in-class examples, determine the following:
- a. What type of variables are each of these columns (**Nominal, Ordinal, or Continuous/Quantitative**)? Keep in mind that the way they are represented in the R dataset may not be appropriate, so you should make this determination using your *own judgement based on the data you are looking at*.
- Overall_Qual
 - Lot_Shape
 - Heating_QC
 - Lot_Area