STAT 545 - Assignment 1.2

Sean La

09/09/2019

First, we'll load the Gapminder datatset.

```
library(gapminder)
gapminder.df <- gapminder
```

Let's look at the structure of the Gapminder dataset...

```
str(gapminder.df)
```

```
## Classes 'tbl_df', 'tbl' and 'data.frame':    1704 obs. of  6 variables:
##  $ country  : Factor w/ 142 levels "Afghanistan",..: 1 1 1 1 1 1 1 1 1 1 ...
##  $ continent: Factor w/ 5 levels "Africa","Americas",..: 3 3 3 3 3 3 3 3 3 3 ...
##  $ year     : int  1952 1957 1962 1967 1972 1977 1982 1987 1992 1997 ...
##  $ lifeExp  : num  28.8 30.3 32 34 36.1 ...
##  $ pop      : int  8425333 9240934 10267083 11537966 13079460 14880372 12881816 13867957 16317921 22
##  $ gdpPercap: num  779 821 853 836 740 ...
```

There's a column called `lifeExp`, which stands for life expectancy. Let's find out what the mean and standard deviations for life expectancy are!

```
print(paste('The mean life expectancy is', mean(gapminder.df$lifeExp), '.'))
```

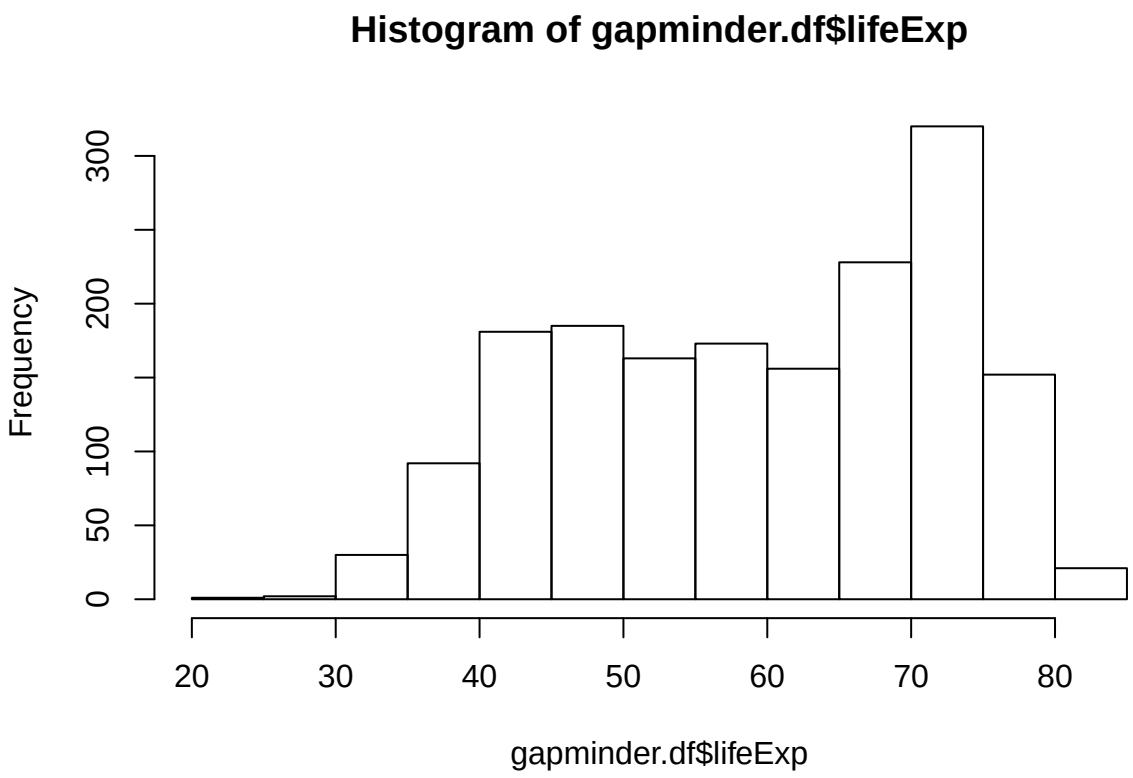
```
## [1] "The mean life expectancy is 59.4744393661972 ."
```

```
print(paste('The standard deviation for life expectancy is', sd(gapminder.df$lifeExp), '.'))
```

```
## [1] "The standard deviation for life expectancy is 12.9171074152412 ."
```

Let's make a histogram of the life expectancies to visualize the data better.

```
hist(gapminder.df$lifeExp)
```


Histogram of gapminder.df$lifeExp
Frequency
0
50
100
200
300
20
30
40
50
60
70
80
gapminder.df$lifeExp