

New Report with kable and qplot

2022-07-17

My First Tables

We can use `kable` function combined to generate a table.

```
?kable
kable(table(data$gender), align = "l")
```

Var1	Freq
1	391
2	478

```
kable(summarize(data, Mean = mean(data$faminc_new), Median = median(data$faminc_new), align = 'l', label = 'Summary Statistics for Family Income'))
```

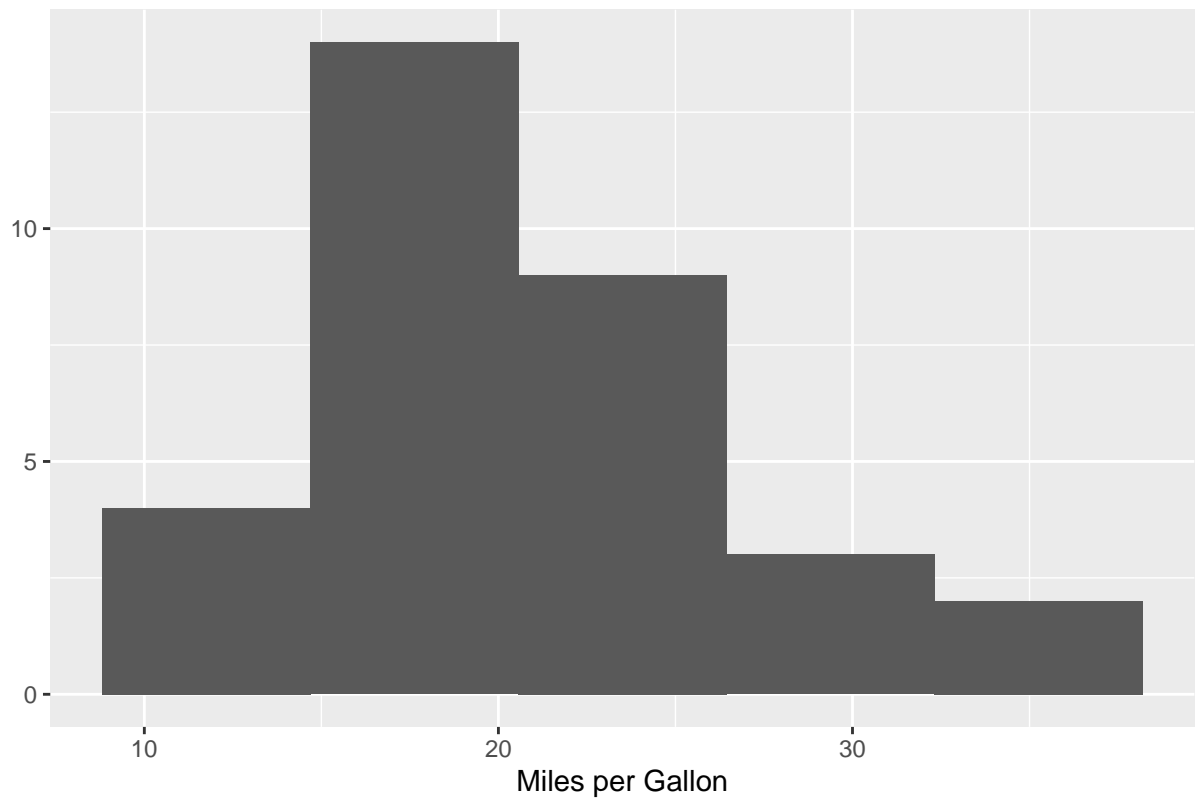
Mean	Median	align	label
6.581128	6	l	Summary Statistics for Family Income

My First QPlots

tidyverse includes one of the most powerful visualization library called `ggplot2` that we will learn later. However, for quick visualization, besides using the R base tool, we can use `qplot` which is a quick plotting tool that incorporates some `ggplot` tools but seems like based visualization tools in R.

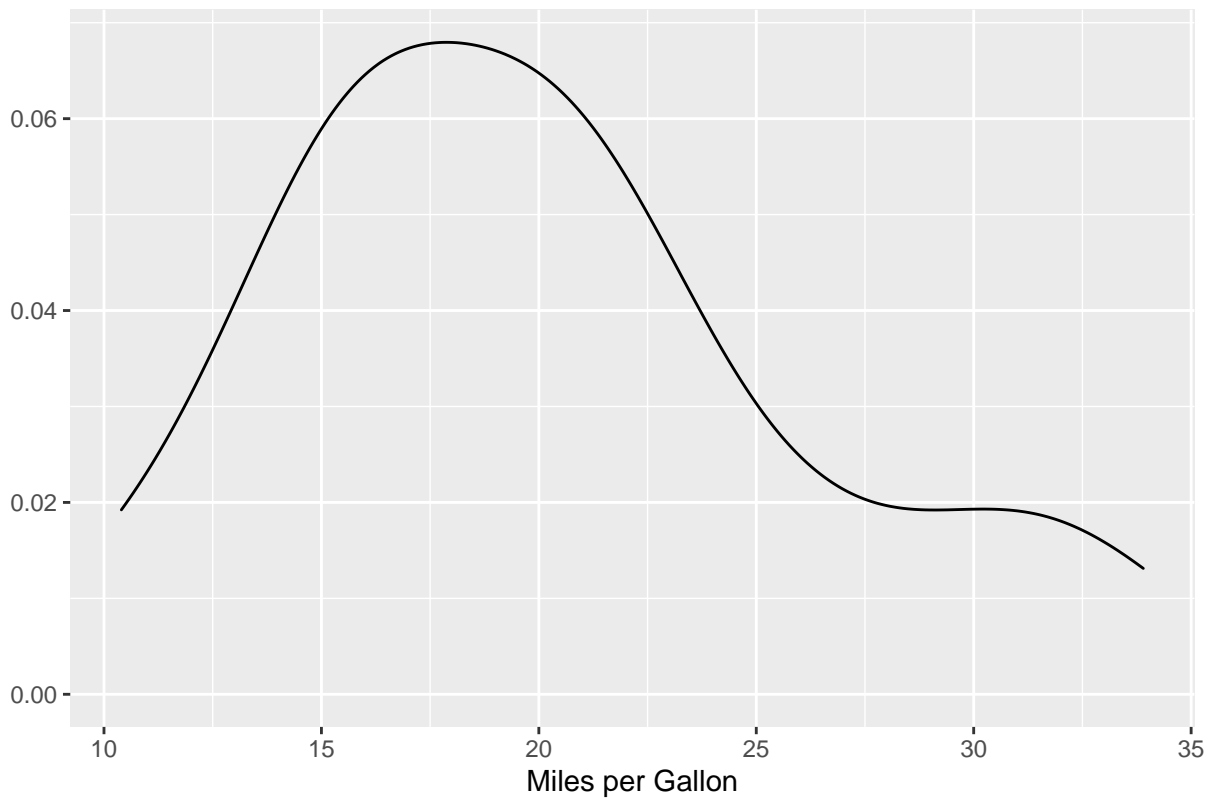
```
data(mtcars)
# geom stands for geometry (basic options: histogram, density, boxplot, point, and line)
qplot(x = mpg, data = mtcars, geom = 'histogram', bins = 5, main = "Histogram Title", xlab = "Miles per gallon", ylab = "Density")
```

Histogram Title

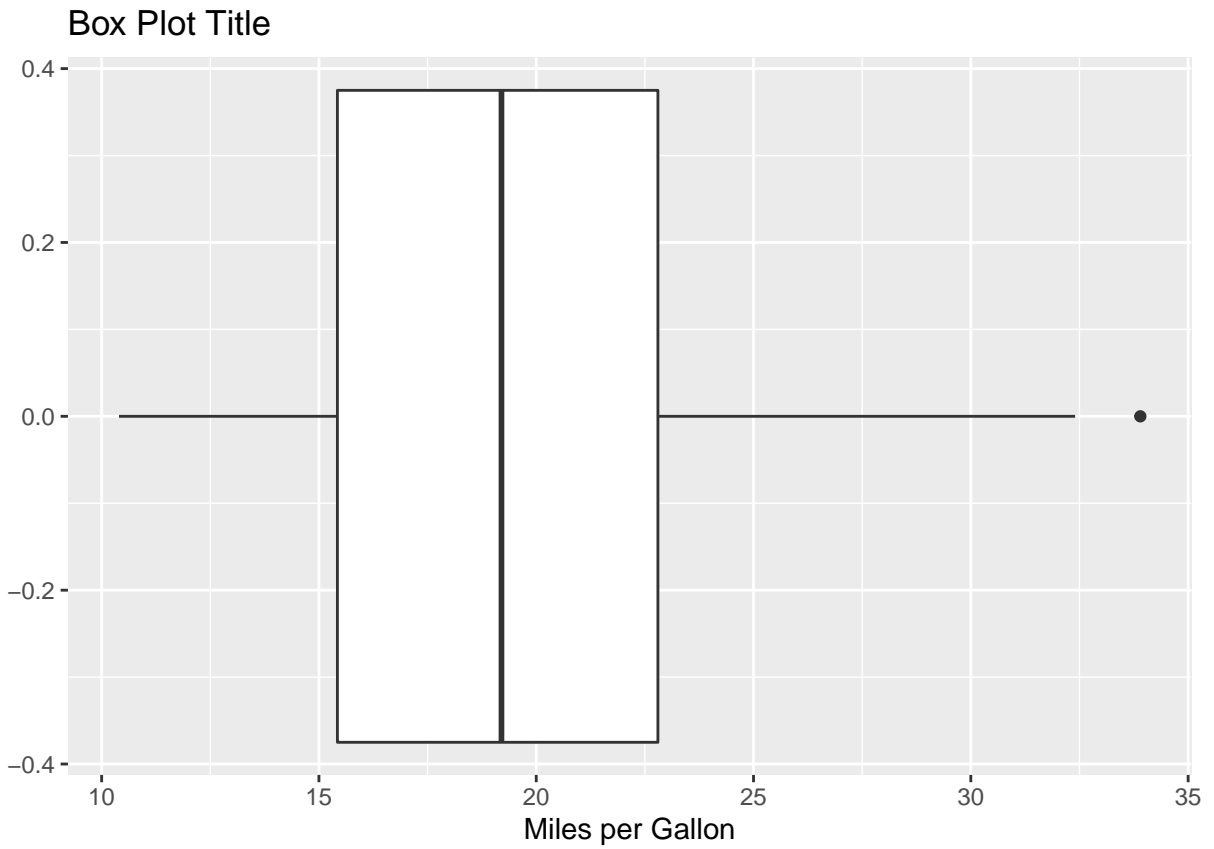


```
qplot(x = mpg, data = mtcars, geom = 'density', main = "Density Plot Title", xlab = "Miles per Gallon")
```

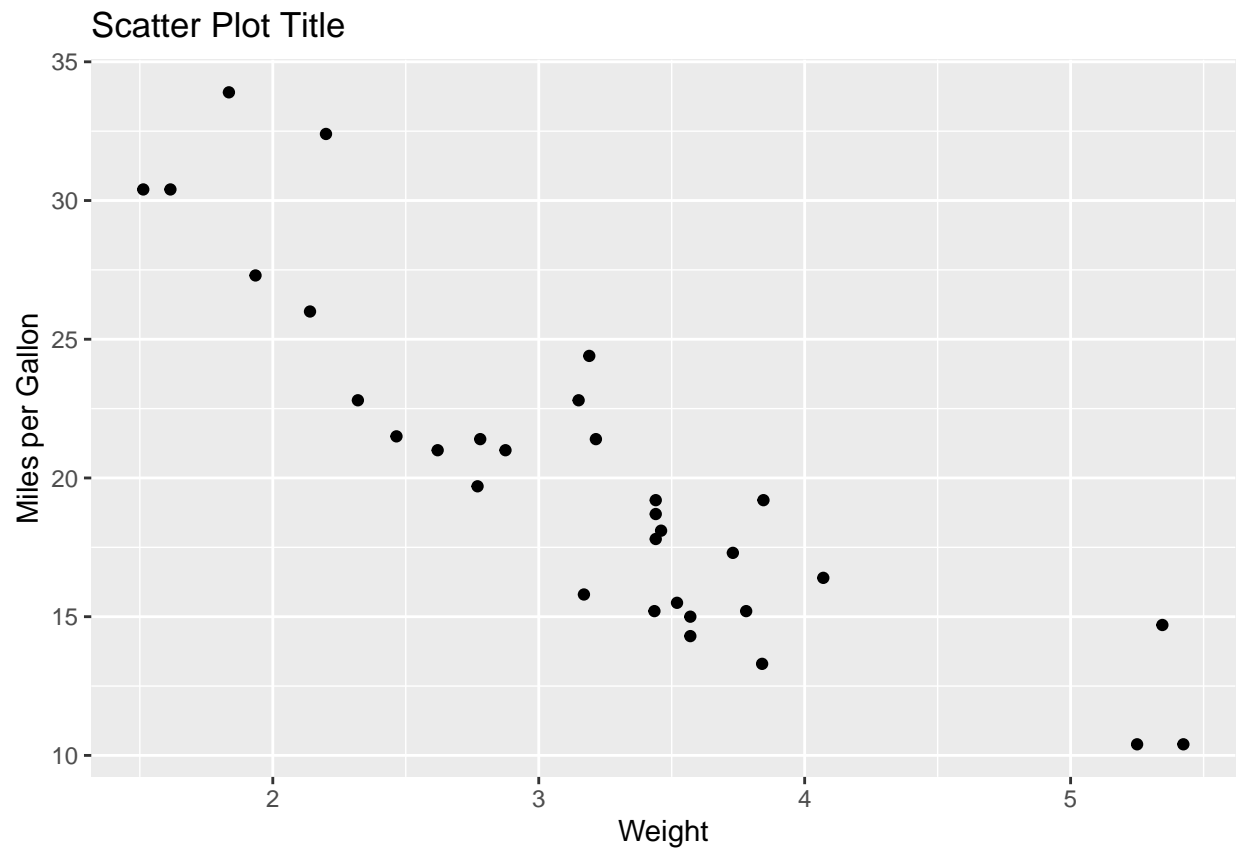
Density Plot Title



```
qplot(x = mpg, data = mtcars, geom = 'boxplot', main = "Box Plot Title", xlab = "Miles per Gallon")
```



```
qplot(x = wt, y = mpg, data = mtcars, geom = 'point', main = "Scatter Plot Title", xlab = "Weight", ylab = "Miles per Gallon")
```



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.