A Variety of Plots Using the Same Dataset

We're going to use the built-in dataset 'mpg' to build a variety of plots. First, let's find out about the data by using the `head` function to view the first part of the data.

```
> head(mpg)
# A tibble: 6 x 11
  manufacturer model displ  year   cyl trans       drv       cty    hwy fl      class
  <chr>        <chr> <dbl> <int> <int> <chr>       <chr>   <int>  <int> <chr>   <chr>
1 audi         a4      1.8  1999     4 auto(l5)    f          18     29 p       compact
2 audi         a4      1.8  1999     4 manual(m5)  f          21     29 p       compact
3 audi         a4      2    2008     4 manual(m6)  f          20     31 p       compact
4 audi         a4      2    2008     4 auto(av)    f          21     30 p       compact
5 audi         a4      2.8  1999     6 auto(l5)    f          16     26 p       compact
6 audi         a4      2.8  1999     6 manual(m5)  f          18     26 p       compact
```

We can explore the data further by asking for all the possibilities in each column using the `unique` function. For example, we can check to see how many different types of cars there are:

```
> unique(mpg$manufacturer)
 [1] "audi"       "chevrolet" "dodge"       "ford"       "honda"       "hyundai"    "jeep"
 [8] "land rover" "lincoln"    "mercury"     "nissan"     "pontiac"     "subaru"     "toyota"
[15] "volkswagen"
```

We can use the `length` function to give us the total number of unique possibilities:

```
> length(unique(mpg$manufacturer))
[1] 15
```