

Homework: Data Visualization

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Homework

Import libraries

Explore dataset namely “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   compa~
## 2 audi         a4      1.8  1999     4 manual(m5) f      21    29 p   compa~
## 3 audi         a4      2    2008     4 manual(m6) f      20    31 p   compa~
## 4 audi         a4      2    2008     4 auto(av)   f      21    30 p   compa~
## 5 audi         a4      2.8  1999     6 auto(l5)  f      16    26 p   compa~
## 6 audi         a4      2.8  1999     6 manual(m5) f      18    26 p   compa~
```

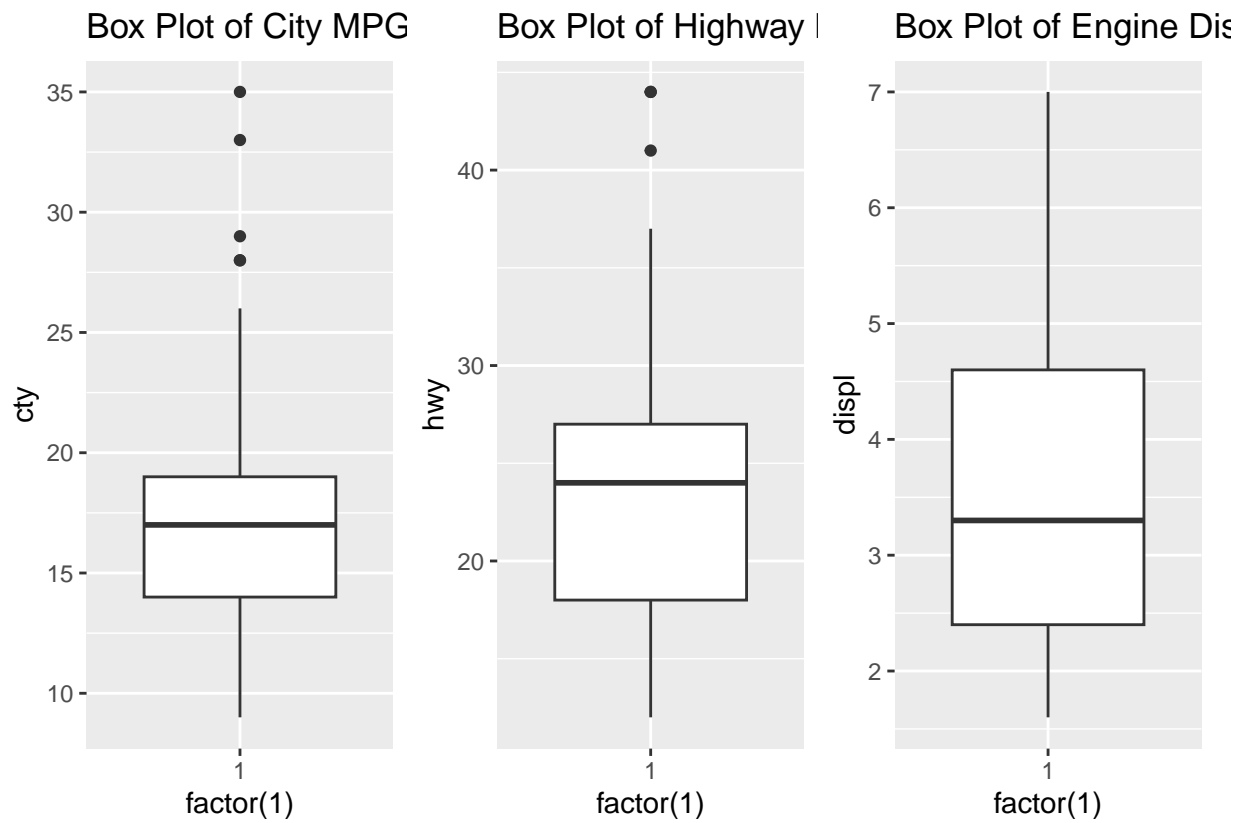
Info / Description of the dataset “mpg”

```
## tibble [234 x 11] (S3: tbl_df/tbl/data.frame)
## $ manufacturer: chr [1:234] "audi" "audi" "audi" "audi" ...
## $ model       : chr [1:234] "a4" "a4" "a4" "a4" ...
## $ displ       : num [1:234] 1.8 1.8 2 2 2.8 2.8 3.1 1.8 1.8 2 ...
## $ year        : int [1:234] 1999 1999 2008 2008 1999 1999 2008 1999 1999 2008 ...
## $ cyl         : int [1:234] 4 4 4 4 6 6 6 4 4 4 ...
## $ trans       : chr [1:234] "auto(l5)" "manual(m5)" "manual(m6)" "auto(av)" ...
## $ drv         : chr [1:234] "f" "f" "f" "f" ...
## $ cty         : int [1:234] 18 21 20 21 16 18 18 18 16 20 ...
## $ hwy         : int [1:234] 29 29 31 30 26 26 27 26 25 28 ...
## $ fl         : chr [1:234] "p" "p" "p" "p" ...
## $ class       : chr [1:234] "compact" "compact" "compact" "compact" ...
```

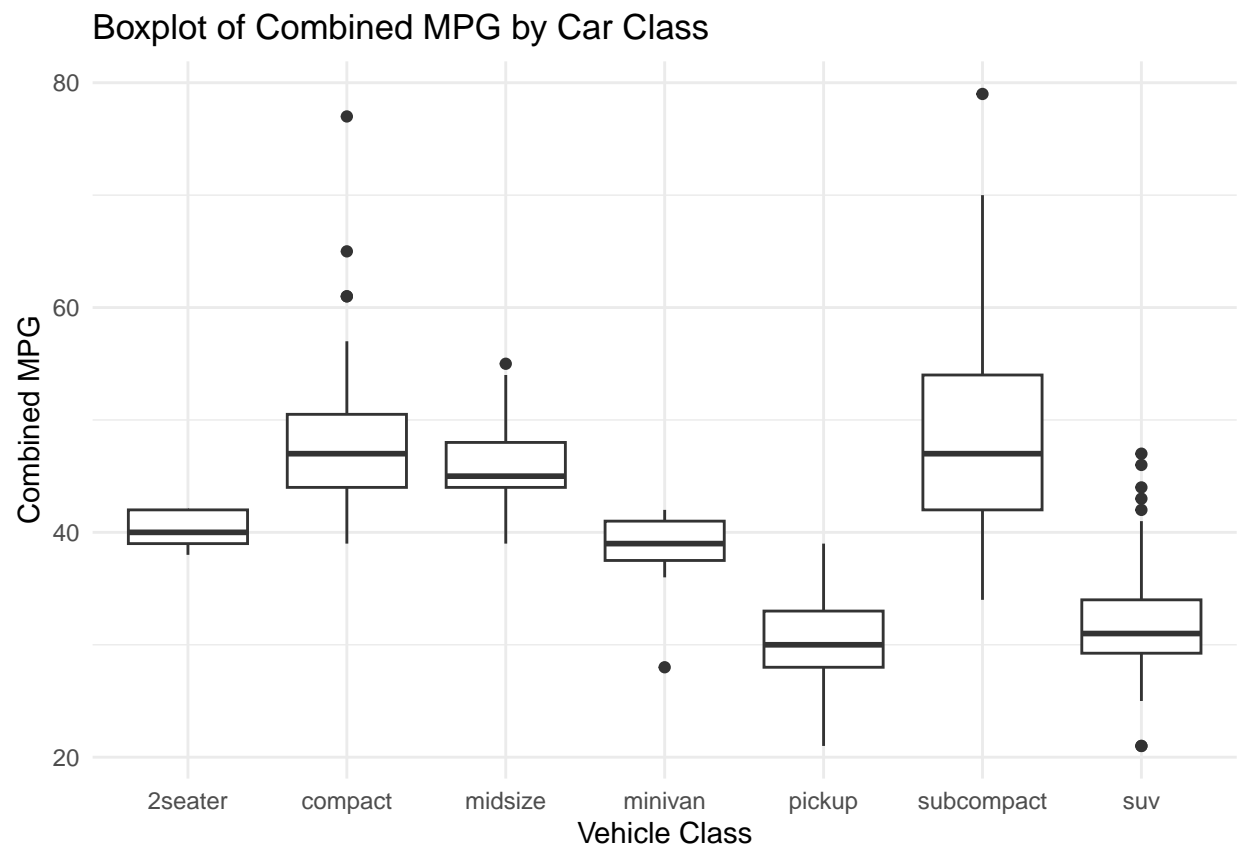
1. Number of Cars count By Each Manufacturer / Each Car Class



2. Show data range for City MPG, Highway MPG, displacement

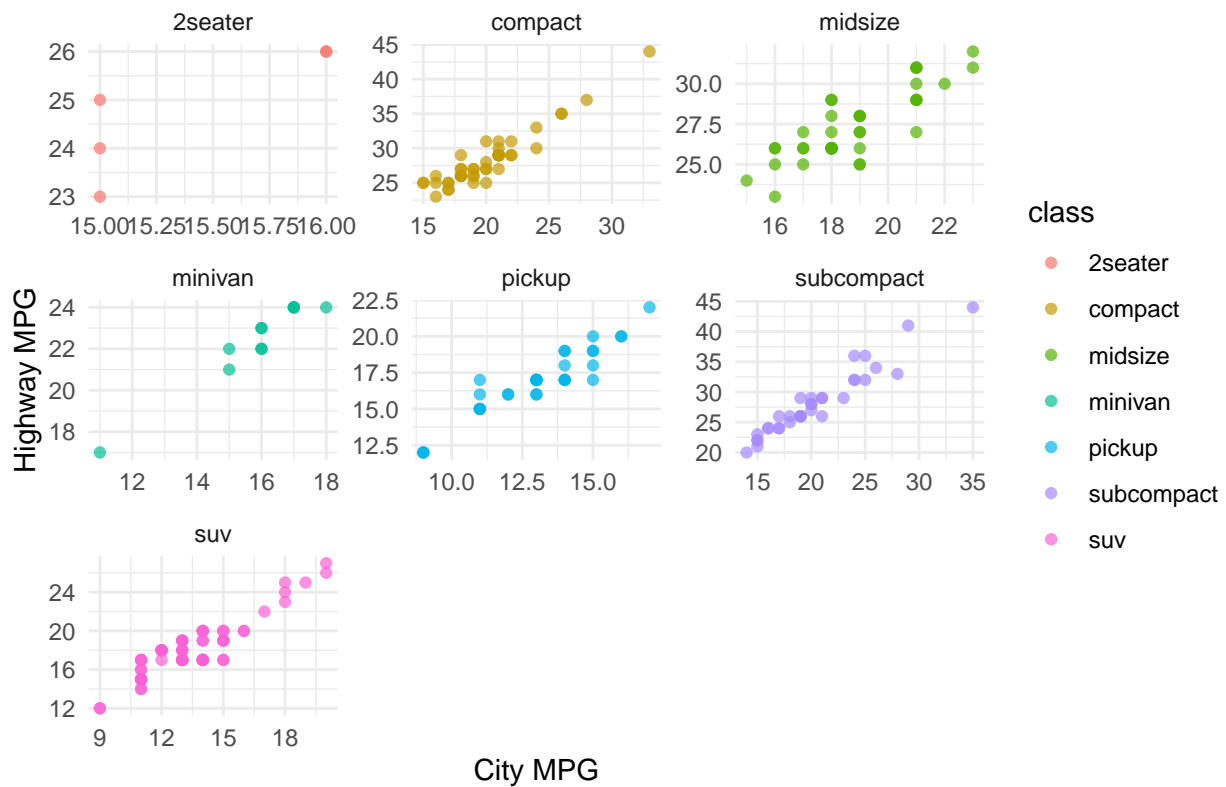


3. Show Combined MPG by Car Class



4. How do City MPG and Highway MPG relate in each Car class?

Scatter Plot of City MPG vs Highway MPG by Car Class



5. Show the relation of Highway MPG vs. Engine Displacement by Car Class

