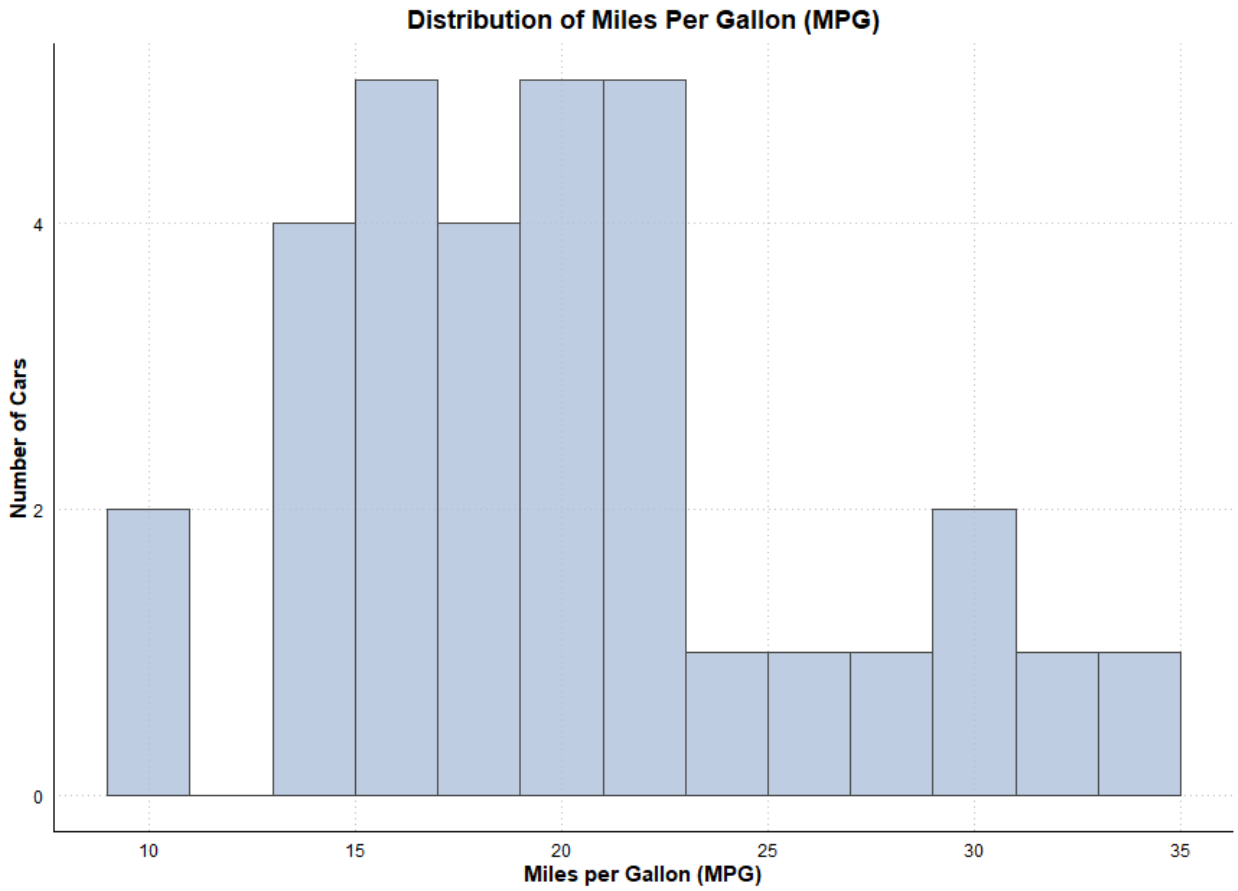
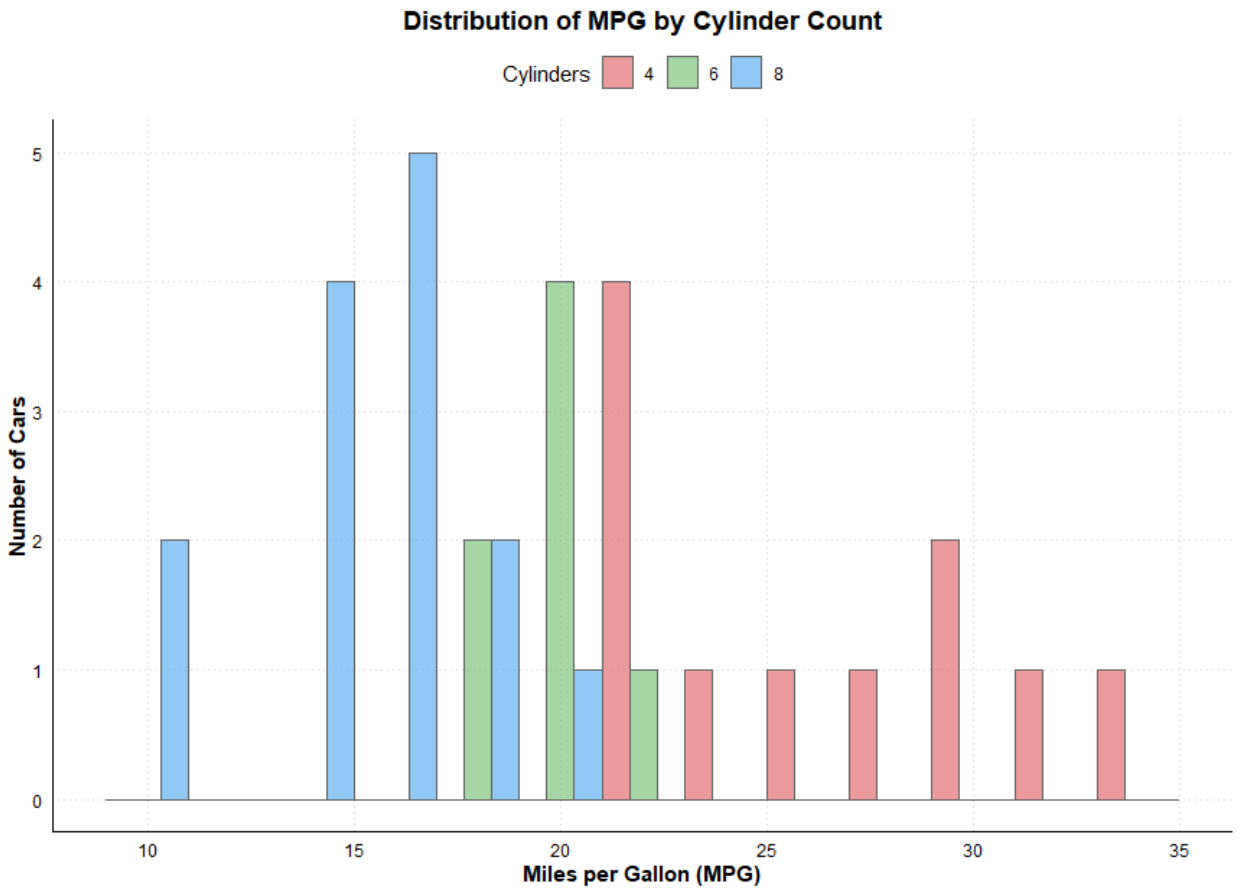
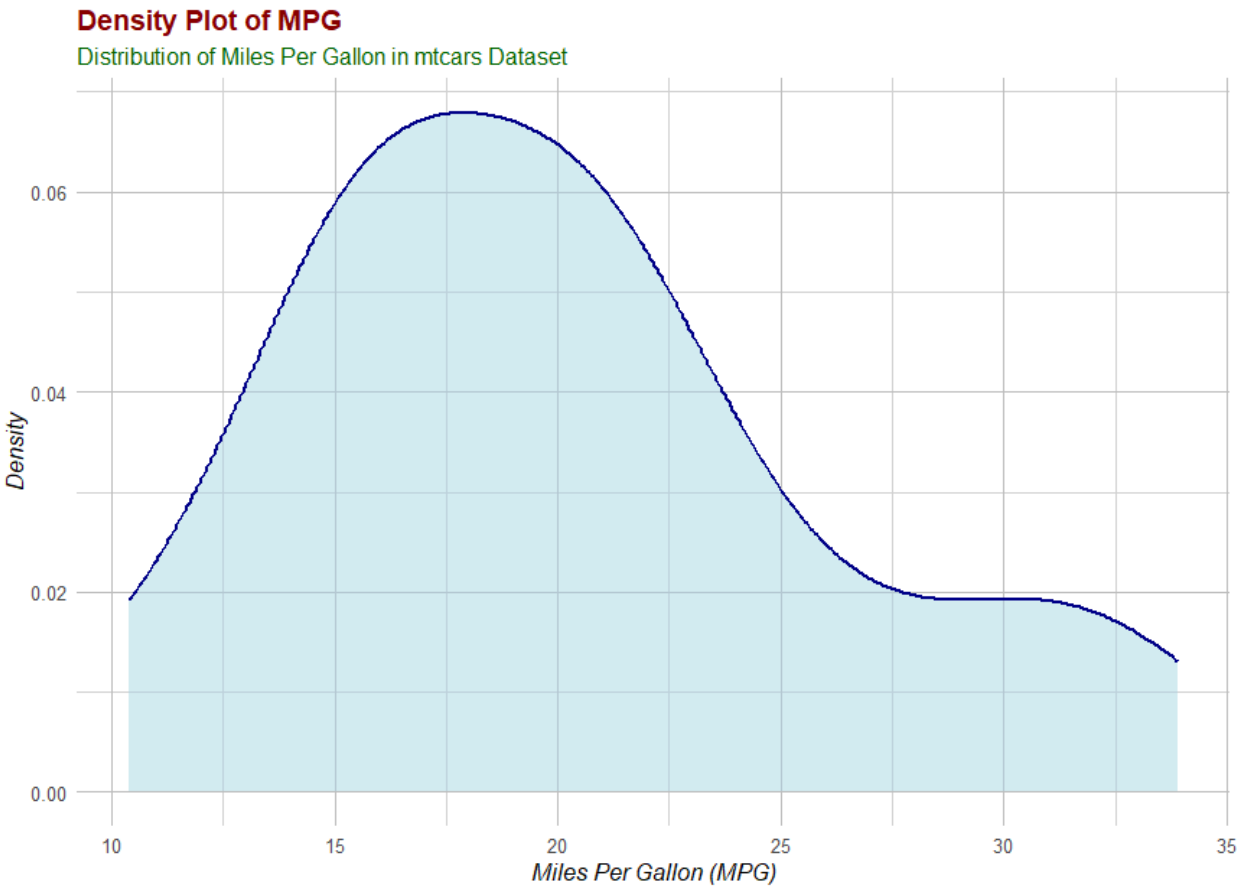
BSc (Hons) in Information Technology
Data Visualization Assignment 1
BSIT 211007

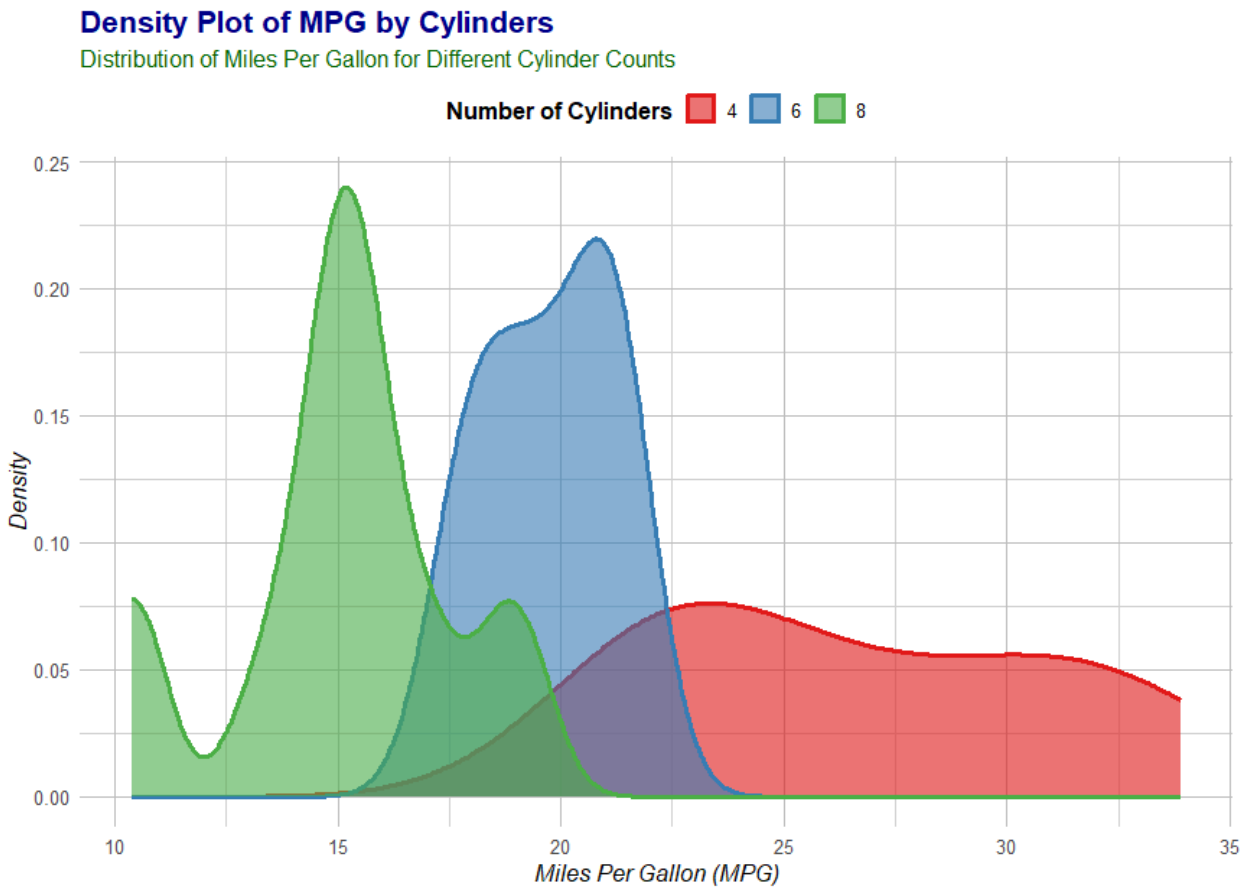
Histograms


Distribution of Miles Per Gallon (MPG)
Number of Cars
0
2
4
10
15
20
25
30
35
Miles per Gallon (MPG)

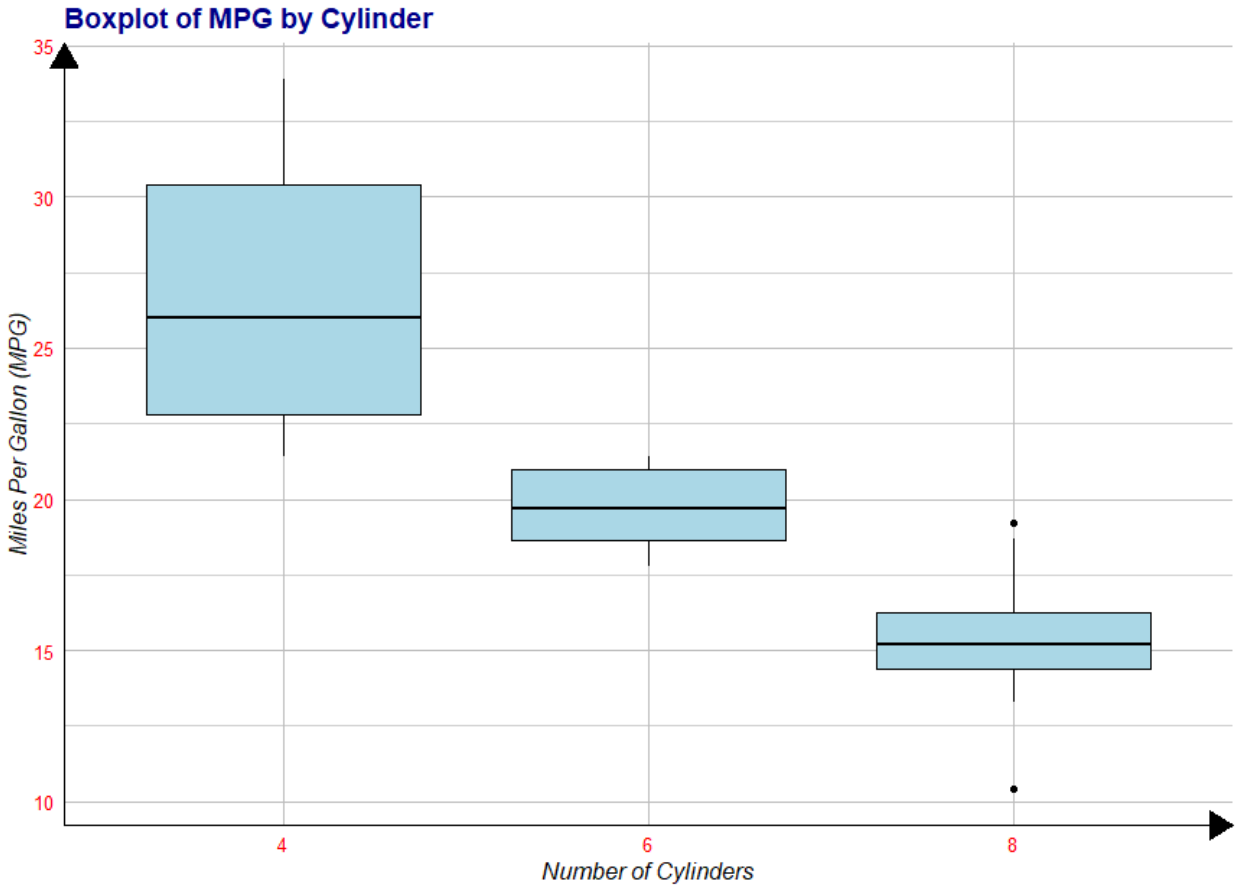

Distribution of MPG by Cylinder Count
Cylinders
4
6
8
Number of Cars
0
1
2
3
4
5
10
15
20
25
30
35
Miles per Gallon (MPG)

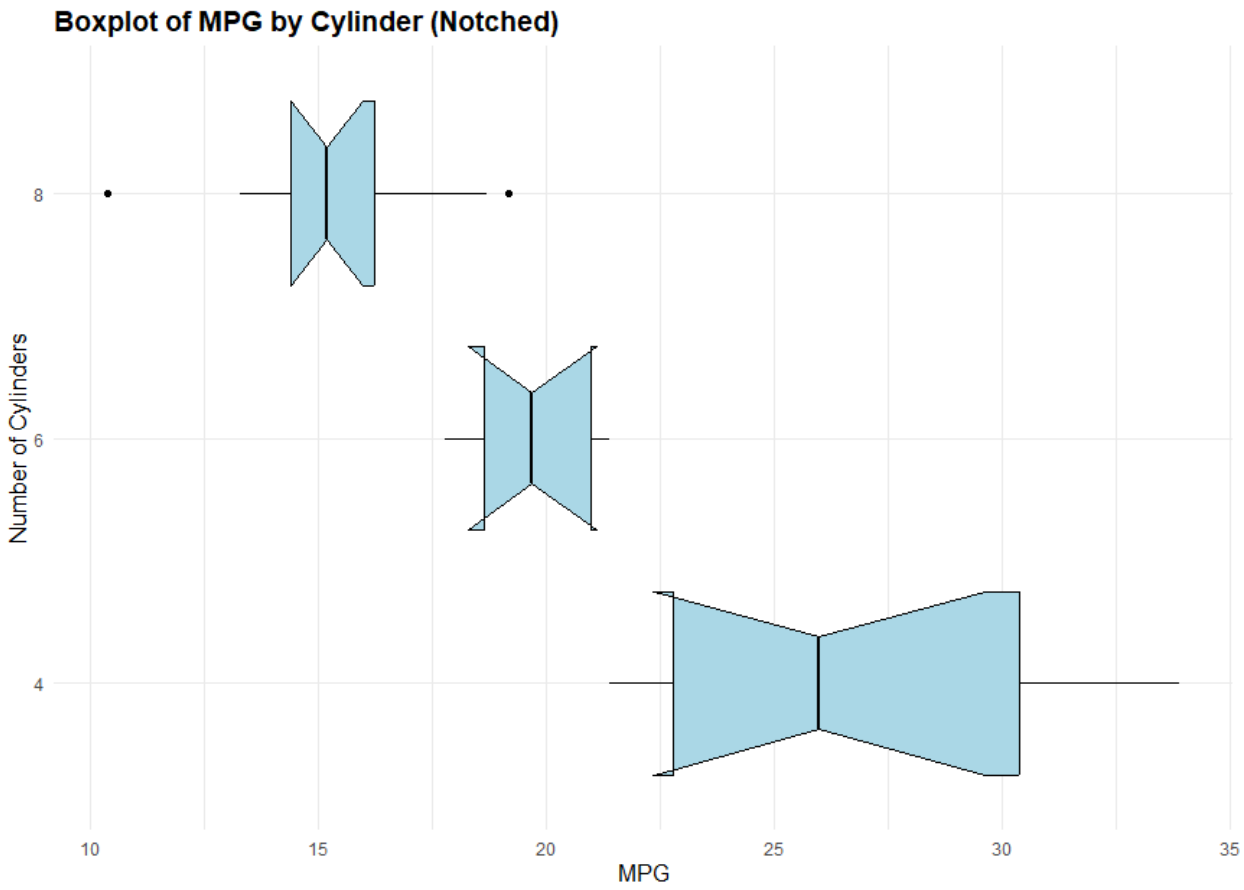
Density Plots



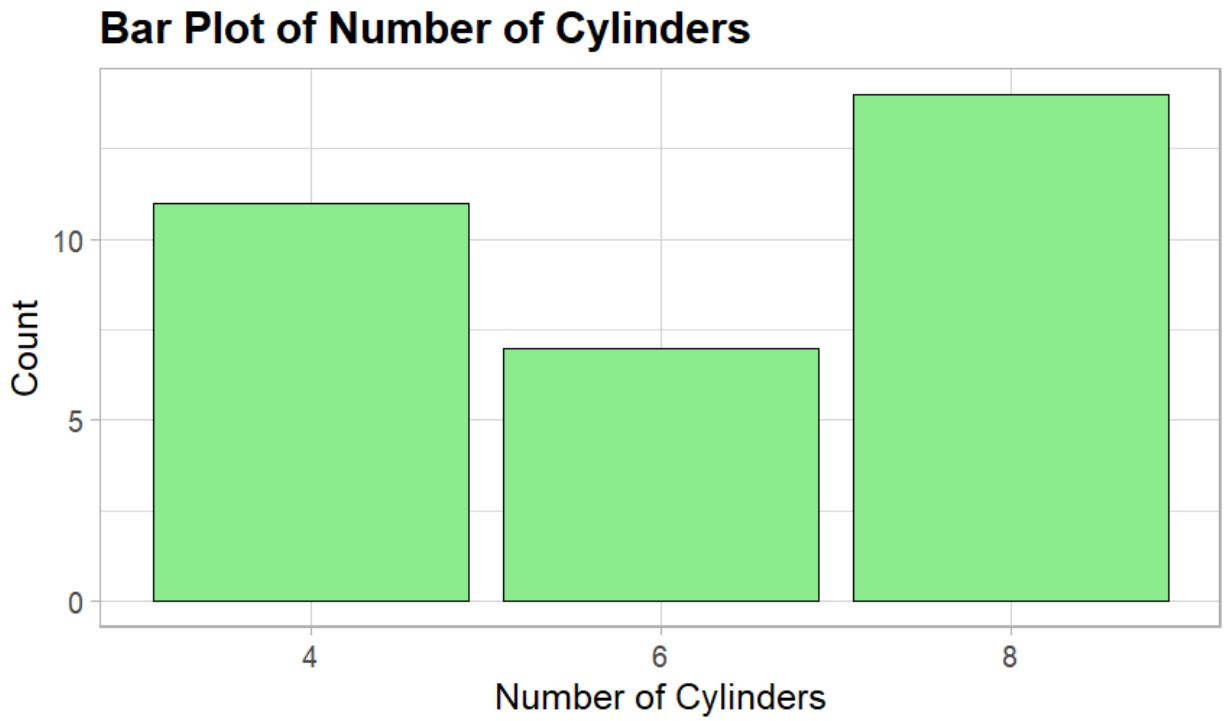

Density Plot of MPG by Cylinders
Distribution of Miles Per Gallon for Different Cylinder Counts
Number of Cylinders
4
6
8
0.25
0.20
0.15
0.10
0.05
0.00
Density
10
15
20
25
30
35
Miles Per Gallon (MPG)

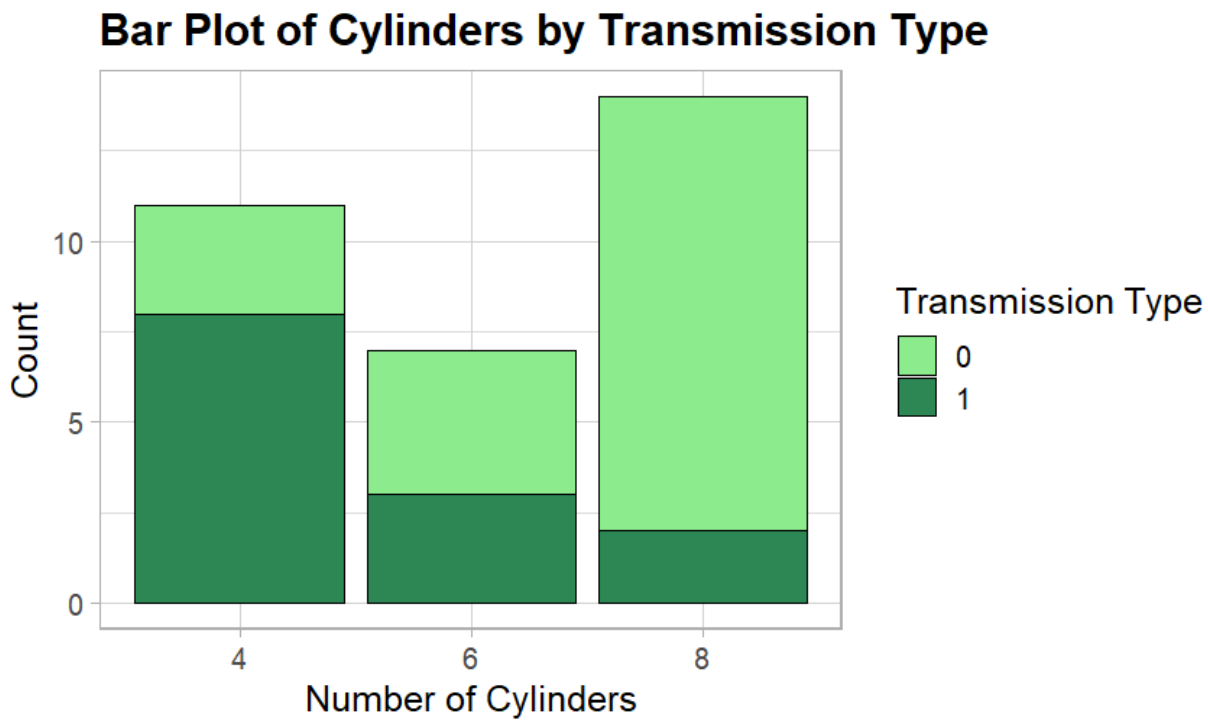
Boxplots


Boxplot of MPG by Cylinder
35
30
25
20
15
10
Miles Per Gallon (MPG)
4
6
8
Number of Cylinders

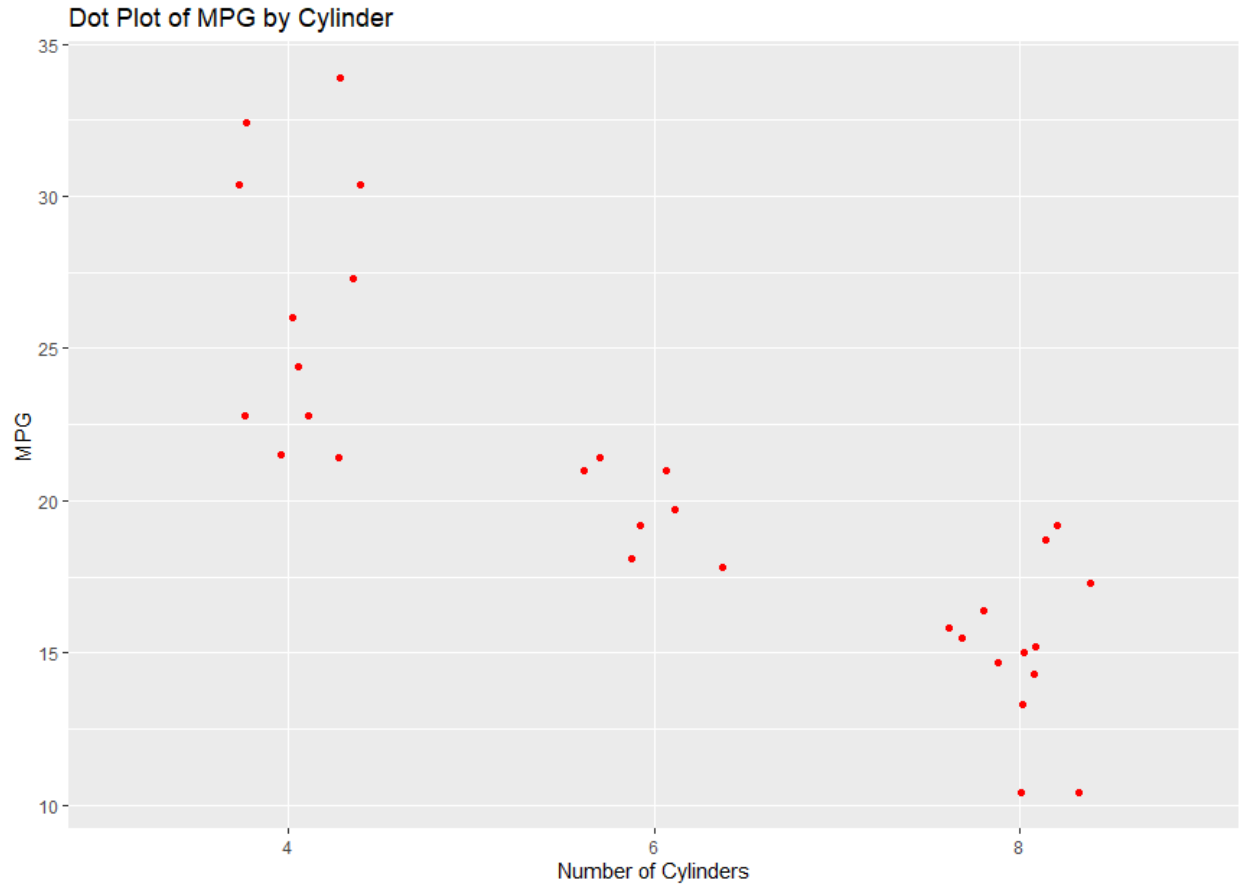

Boxplot of MPG by Cylinder (Notched)
Number of Cylinders
8
6
4
10
15
20
25
30
35
MPG

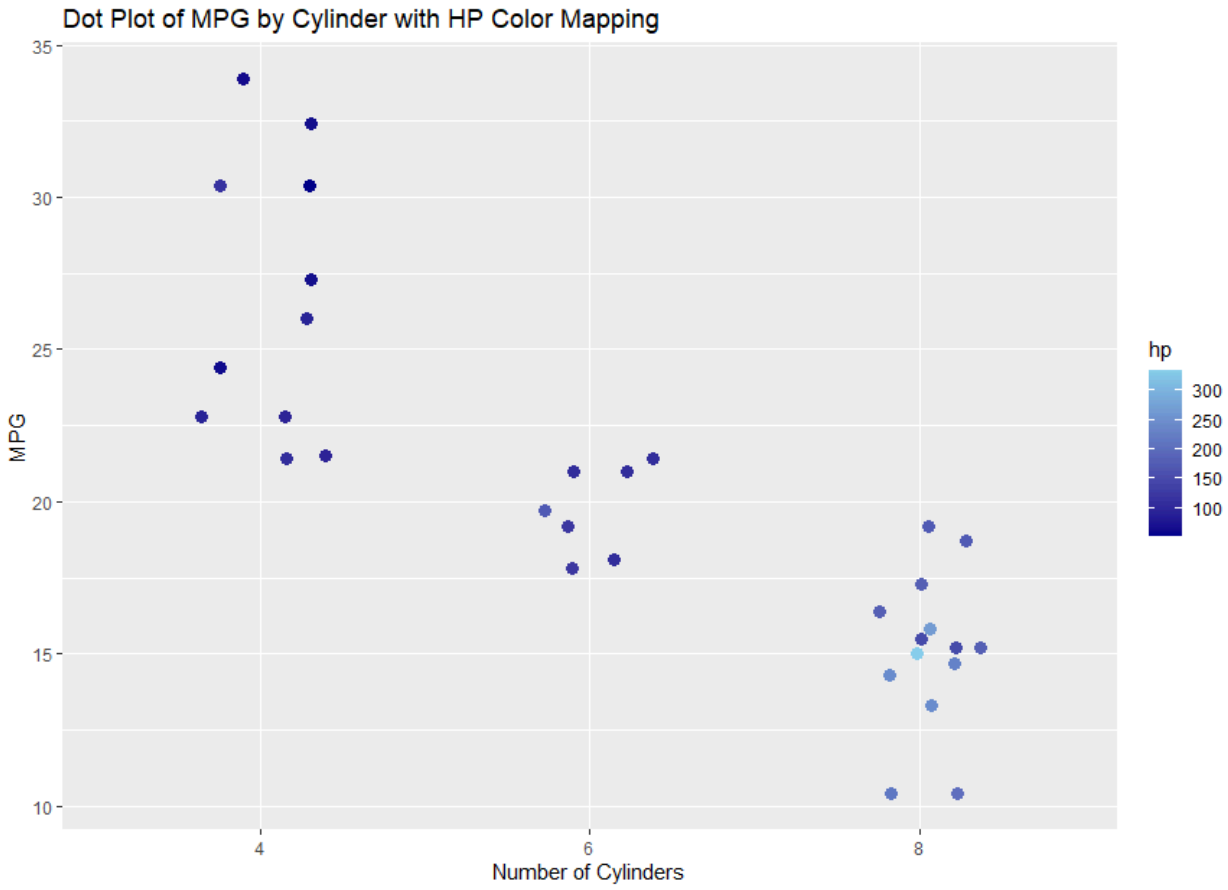
Bar Plots


Bar Plot of Number of Cylinders
Count
10
5
0
4
6
8
Number of Cylinders

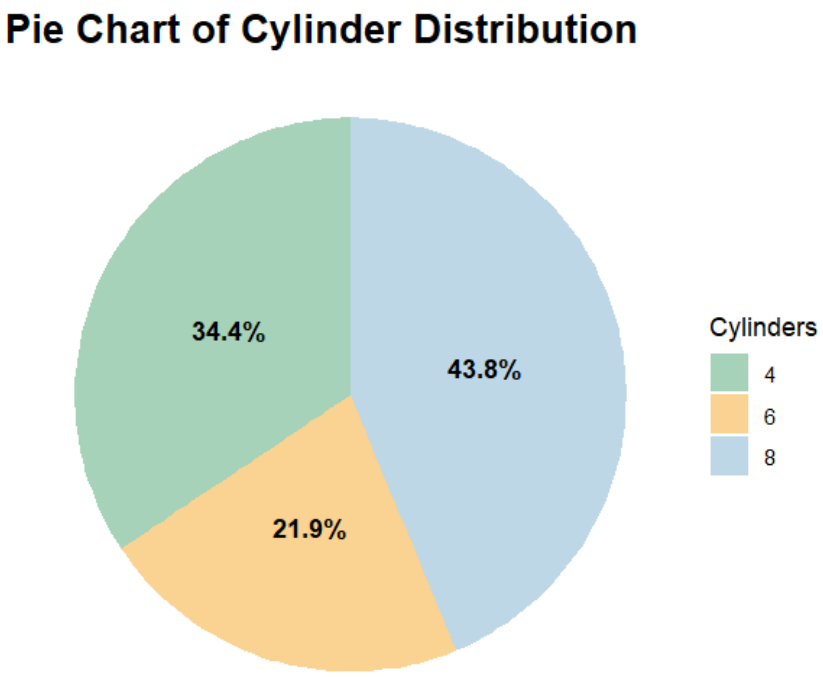

Bar Plot of Cylinders by Transmission Type
Count
10
5
0
4
6
8
Number of Cylinders
Transmission Type
0
1

Dot Plots

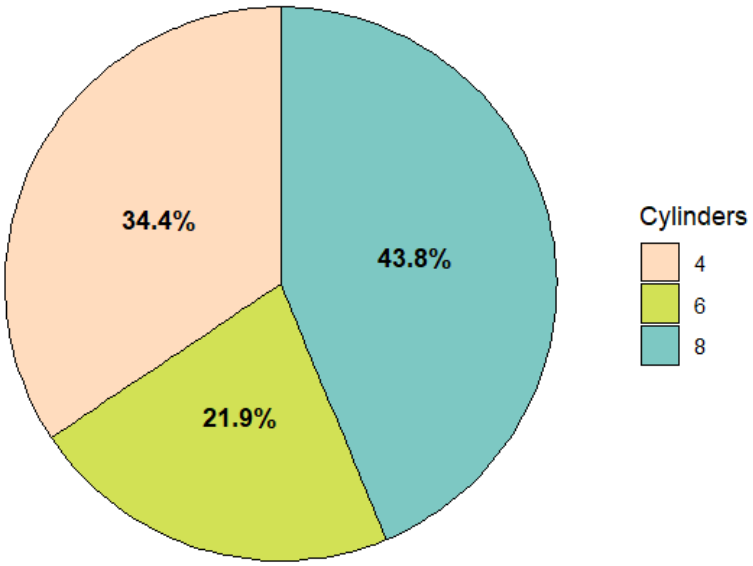

Dot Plot of MPG by Cylinder
MPG
35
30
25
20
15
10
4
6
8
Number of Cylinders


Dot Plot of MPG by Cylinder with HP Color Mapping
MPG
35
30
25
20
15
10
4
6
8
Number of Cylinders
hp
300
250
200
150
100

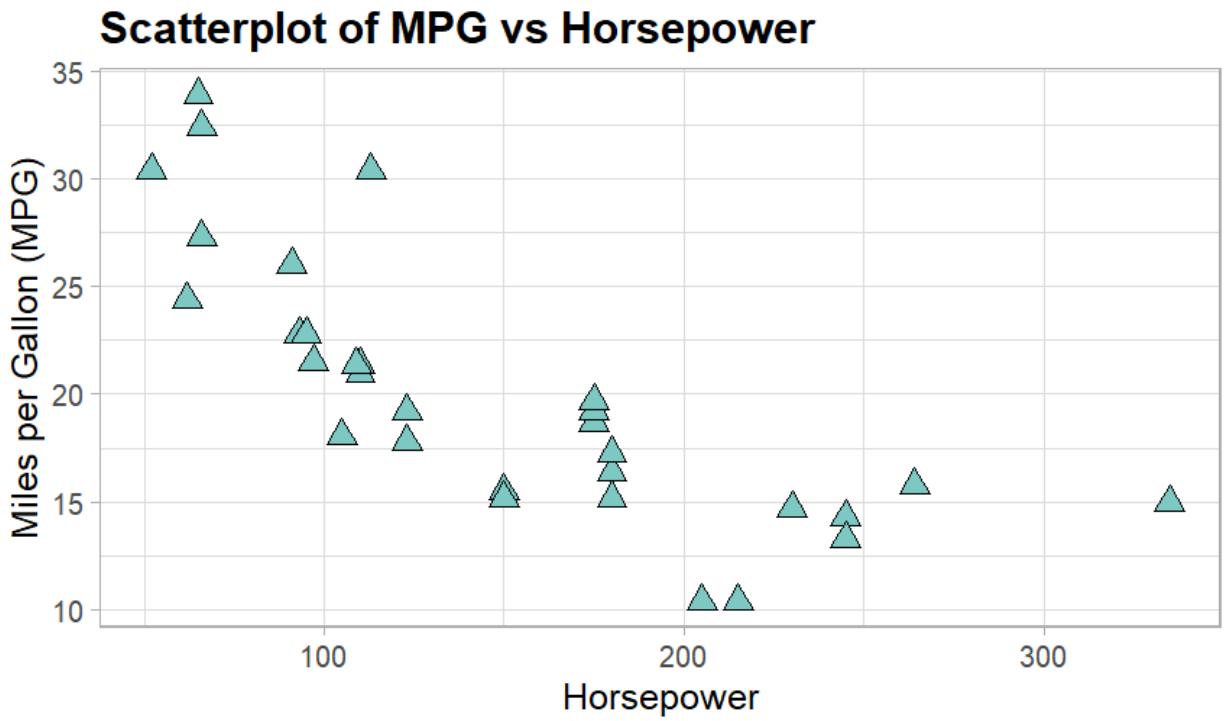
Pie and Donut Charts

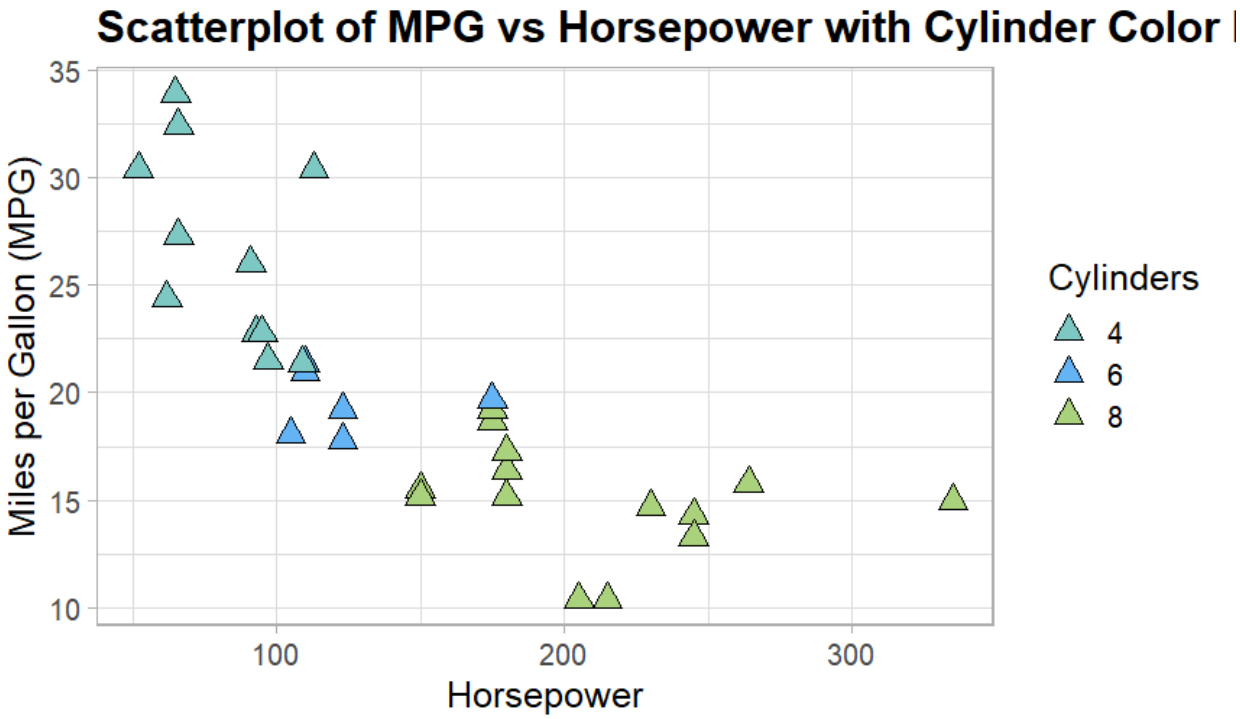
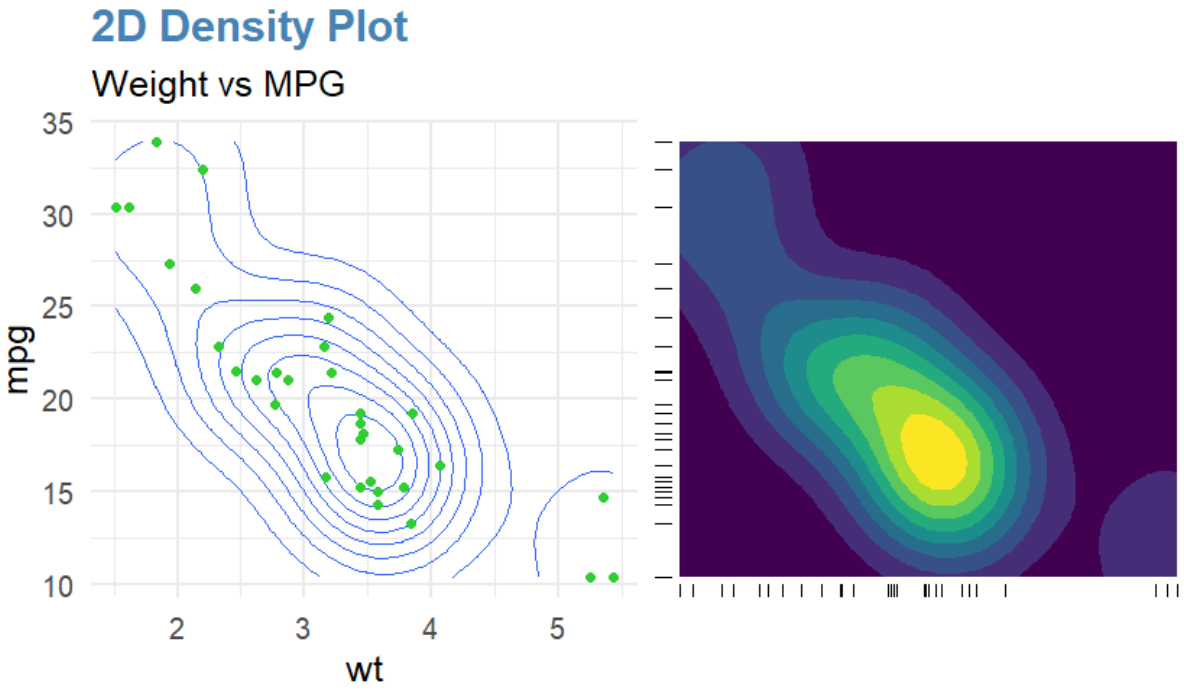


Cylinder Distribution (Pie Chart)



Scatterplots




Scatterplot of MPG vs Horsepower with Cylinder Color
Miles per Gallon (MPG)
35
30
25
20
15
10
100
200
300
Horsepower
Cylinders
4
6
8

Heatmap