

# first\_script.R

rstudio

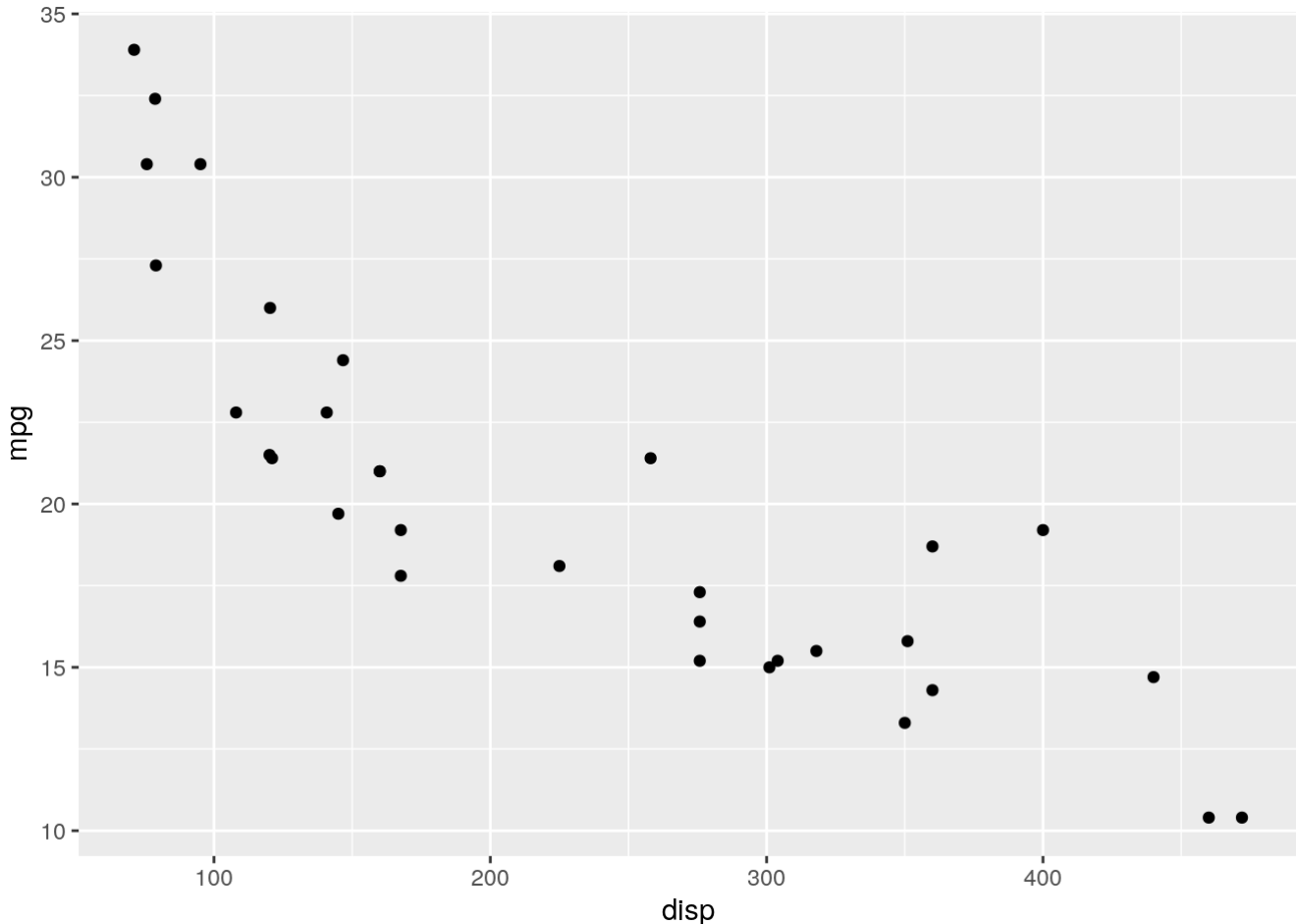
2023-04-21

```
library(datasets)
# Load Data
data(mtcars)
# View first 5 rows
head(mtcars, 5)
```

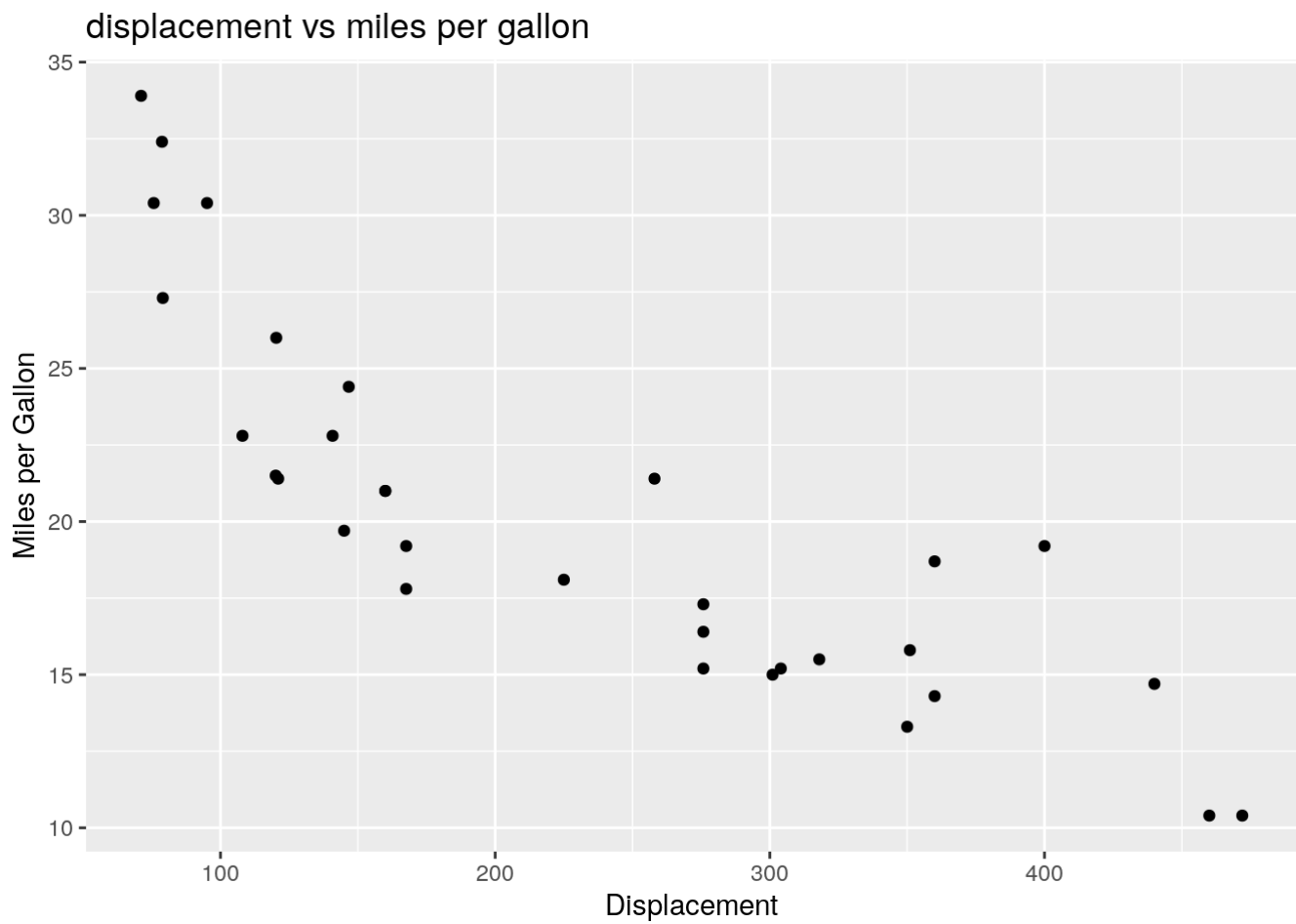
```
##           mpg cyl  disp  hp  drat    wt  qsec vs  am  gear  carb
## Mazda RX4      21.0   6  160  110 3.90  2.620 16.46  0   1    4    4
## Mazda RX4 Wag  21.0   6  160  110 3.90  2.875 17.02  0   1    4    4
## Datsun 710     22.8   4  108   93 3.85  2.320 18.61  1   1    4    1
## Hornet 4 Drive  21.4   6  258  110 3.08  3.215 19.44  1   0    3    1
## Hornet Sportabout 18.7   8  360  175 3.15  3.440 17.02  0   0    3    2
```

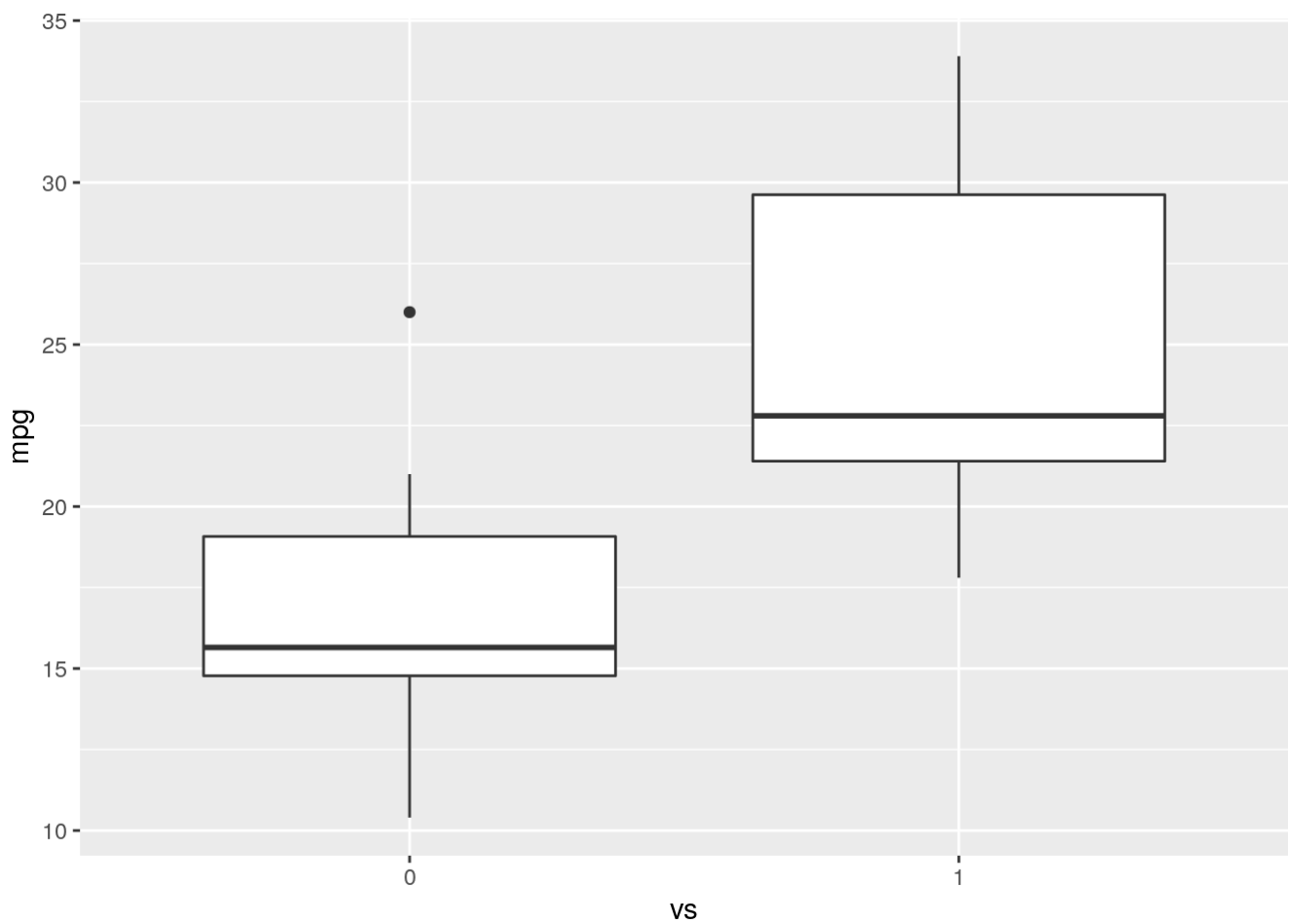
```
#Load ggplot package
library(ggplot2)

# create a scatterplot of displacement (disp) and miles per gallon (mpg)
ggplot(aes(x=disp,y=mpg,),data=mtcars)+geom_point()
```

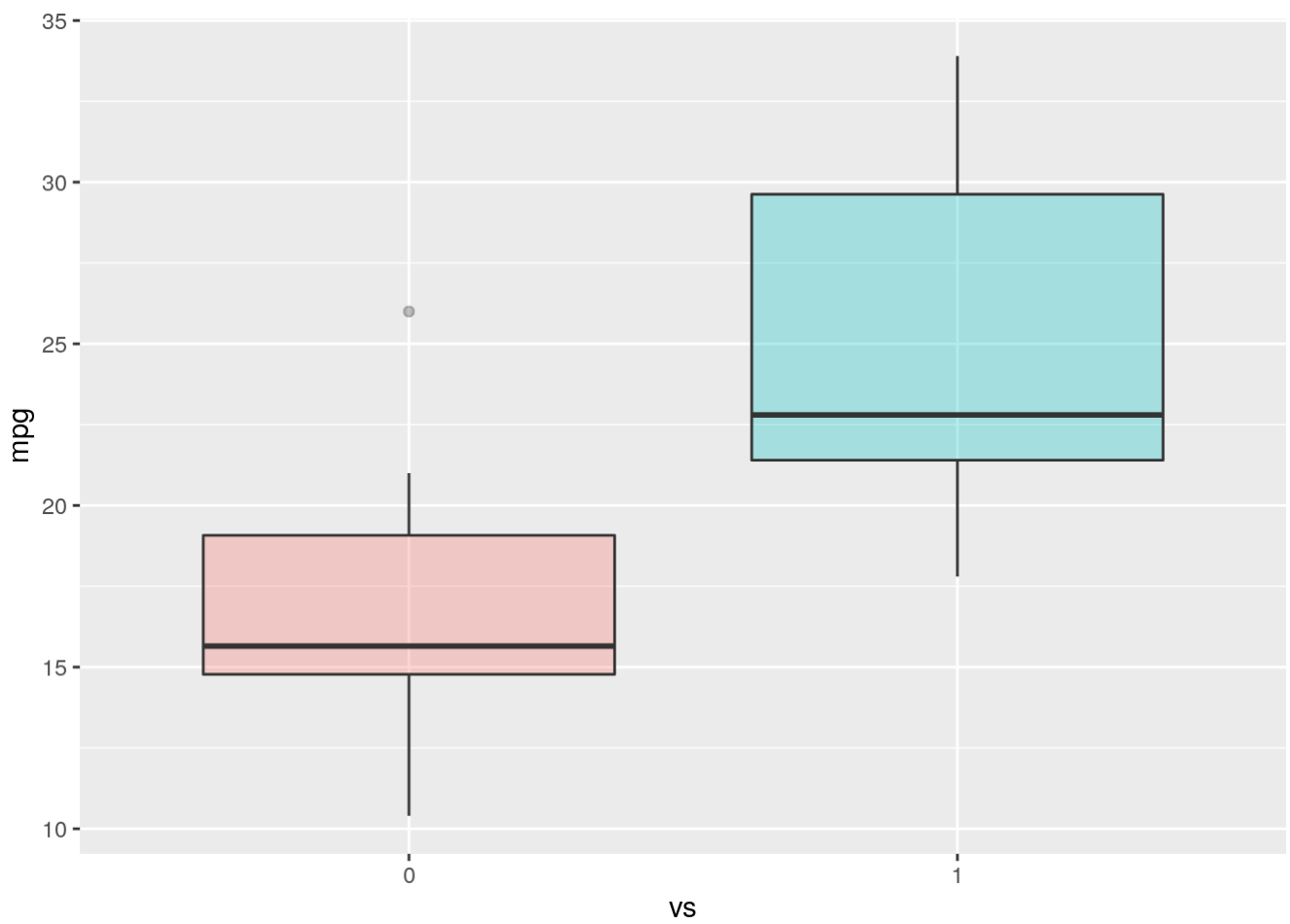


```
# change axis name
ggplot(aes(x=disp,y=mpg,),data=mtcars)+geom_point()+ggtitle("displacement vs miles per gallon") + labs(x = "Displacement", y = "Miles per Gallon")
```





```
#Add color to the boxplots to help differentiate:  
ggplot(aes(x=vs, y=mpg, fill = vs), data = mtcars) +  
  geom_boxplot(alpha=0.3) +  
  theme(legend.position="none")
```



*#Finally, let us create the histogram of weight wt.*  
`ggplot(aes(x=wt),data=mtcars) + geom_histogram(binwidth=0.5)`

