

# DASC-5301-ASSIGNMENT

NIVAS

2024-01-23

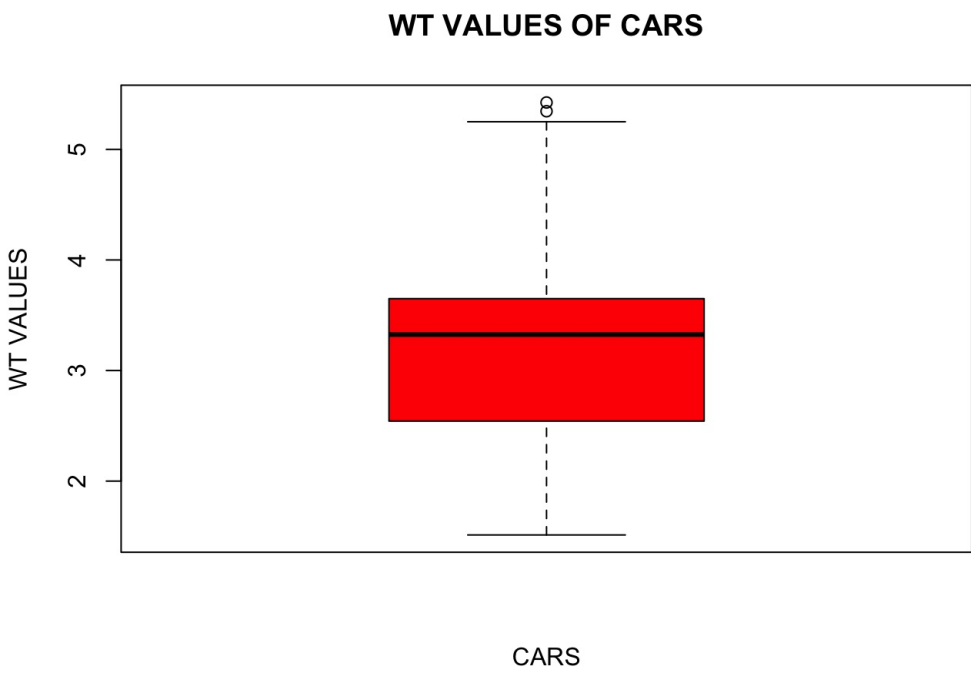
```
library(datasets)
data(mtcars)
head(mtcars)
```

##	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
## Valiant	18.1	6	225	105	2.76	3.460	20.22	1	0	3	1

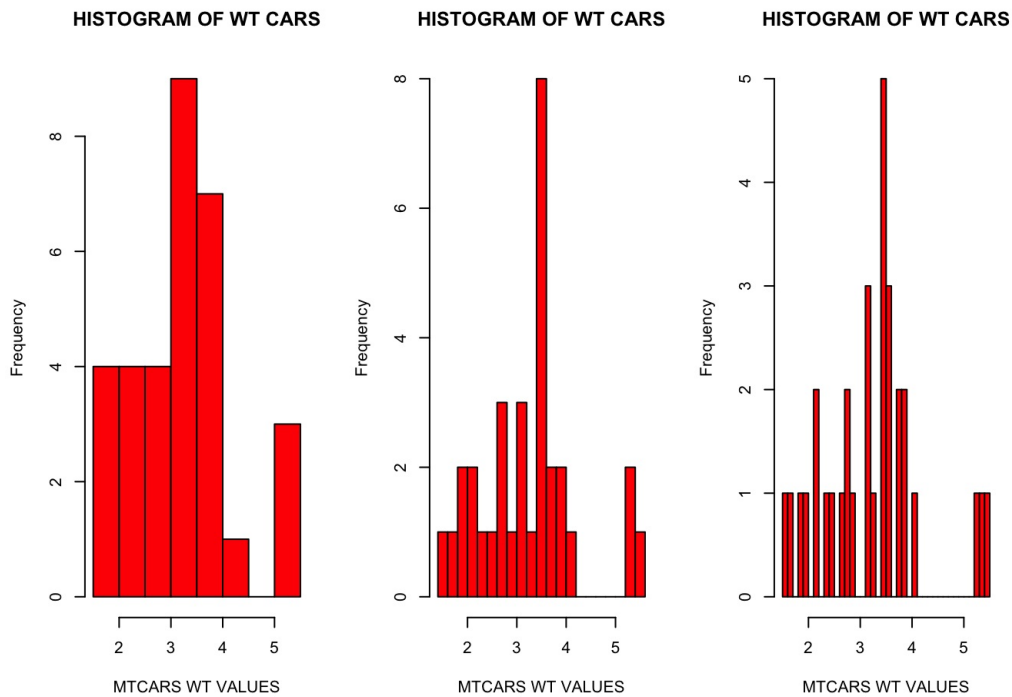
```
summary(mtcars)
```

##	mpg	cyl	disp	hp
## Min.	:10.40	Min. :4.000	Min. : 71.1	Min. : 52.0
## 1st Qu.:	15.43	1st Qu.:4.000	1st Qu.:120.8	1st Qu.: 96.5
## Median :	19.20	Median :6.000	Median :196.3	Median :123.0
## Mean :	20.09	Mean :6.188	Mean :230.7	Mean :146.7
## 3rd Qu.:	22.80	3rd Qu.:8.000	3rd Qu.:326.0	3rd Qu.:180.0
## Max.	:33.90	Max. :8.000	Max. :472.0	Max. :335.0
##	drat	wt	qsec	vs
## Min.	:2.760	Min. :1.513	Min. :14.50	Min. :0.0000
## 1st Qu.:	3.080	1st Qu.:2.581	1st Qu.:16.89	1st Qu.:0.0000
## Median :	3.695	Median :3.325	Median :17.71	Median :0.0000
## Mean :	3.597	Mean :3.217	Mean :17.85	Mean :0.4375
## 3rd Qu.:	3.920	3rd Qu.:3.610	3rd Qu.:18.90	3rd Qu.:1.0000
## Max.	:4.930	Max. :5.424	Max. :22.90	Max. :1.0000
##	am	gear	carb	
## Min.	:0.0000	Min. :3.000	Min. :1.000	
## 1st Qu.:	0.0000	1st Qu.:3.000	1st Qu.:2.000	
## Median :	0.0000	Median :4.000	Median :2.000	
## Mean :	0.4062	Mean :3.688	Mean :2.812	
## 3rd Qu.:	1.0000	3rd Qu.:4.000	3rd Qu.:4.000	
## Max.	:1.0000	Max. :5.000	Max. :8.000	

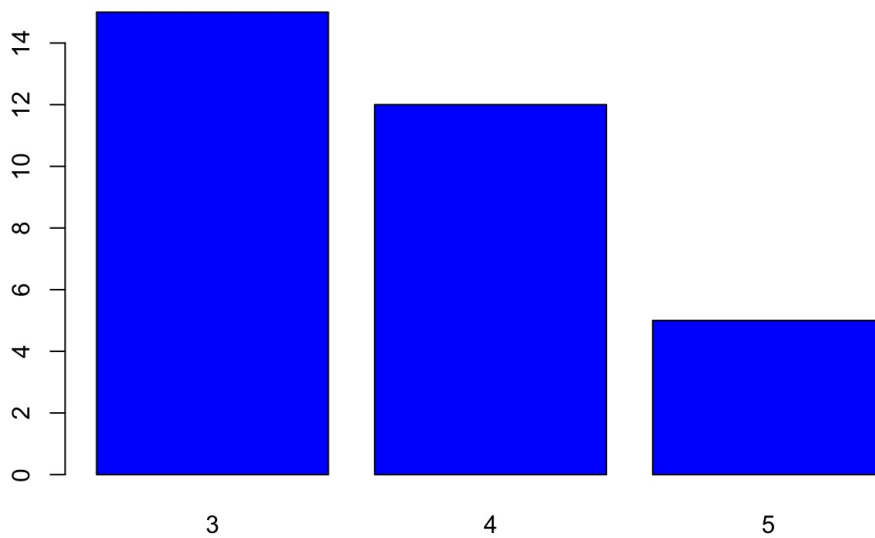
```
boxplot(mtcars$wt, col="red", main="WT VALUES OF CARS", xlab = "CARS", ylab = "WT VALUES")
```



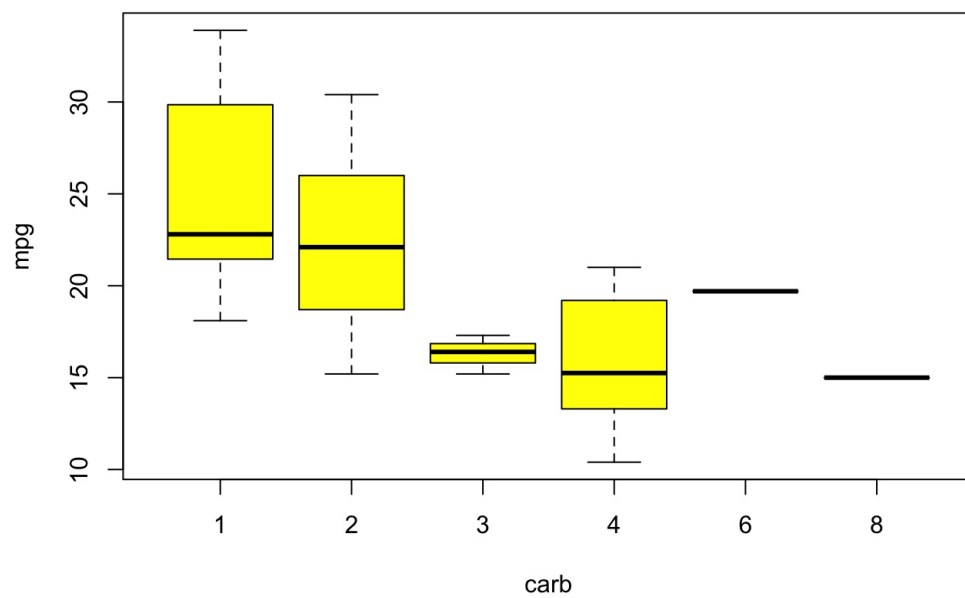
```
par(mfrow=c(1,3))
hist(mtcars$wt, col = "red", main="HISTOGRAM OF WT CARS", xlab = "MTCARS WT VALUES")
hist(mtcars$wt, col = "red", main="HISTOGRAM OF WT CARS", xlab = "MTCARS WT VALUES", breaks = 15)
hist(mtcars$wt, col = "red", main="HISTOGRAM OF WT CARS", xlab = "MTCARS WT VALUES", breaks = 39)
```



```
par(mfrow=c(1,1))
barplot(table(mtcars$gear), col="blue")
```



```
boxplot(mpg~carb, data=mtcars, col = "yellow")
```



```
with(mtcars, plot(mpg, drat, col = "orange" , pch = 16))
```

