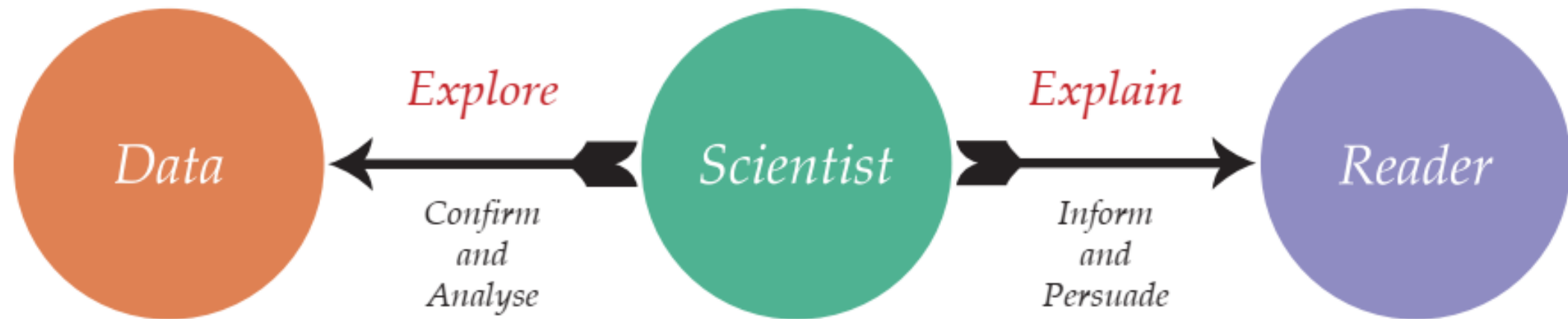




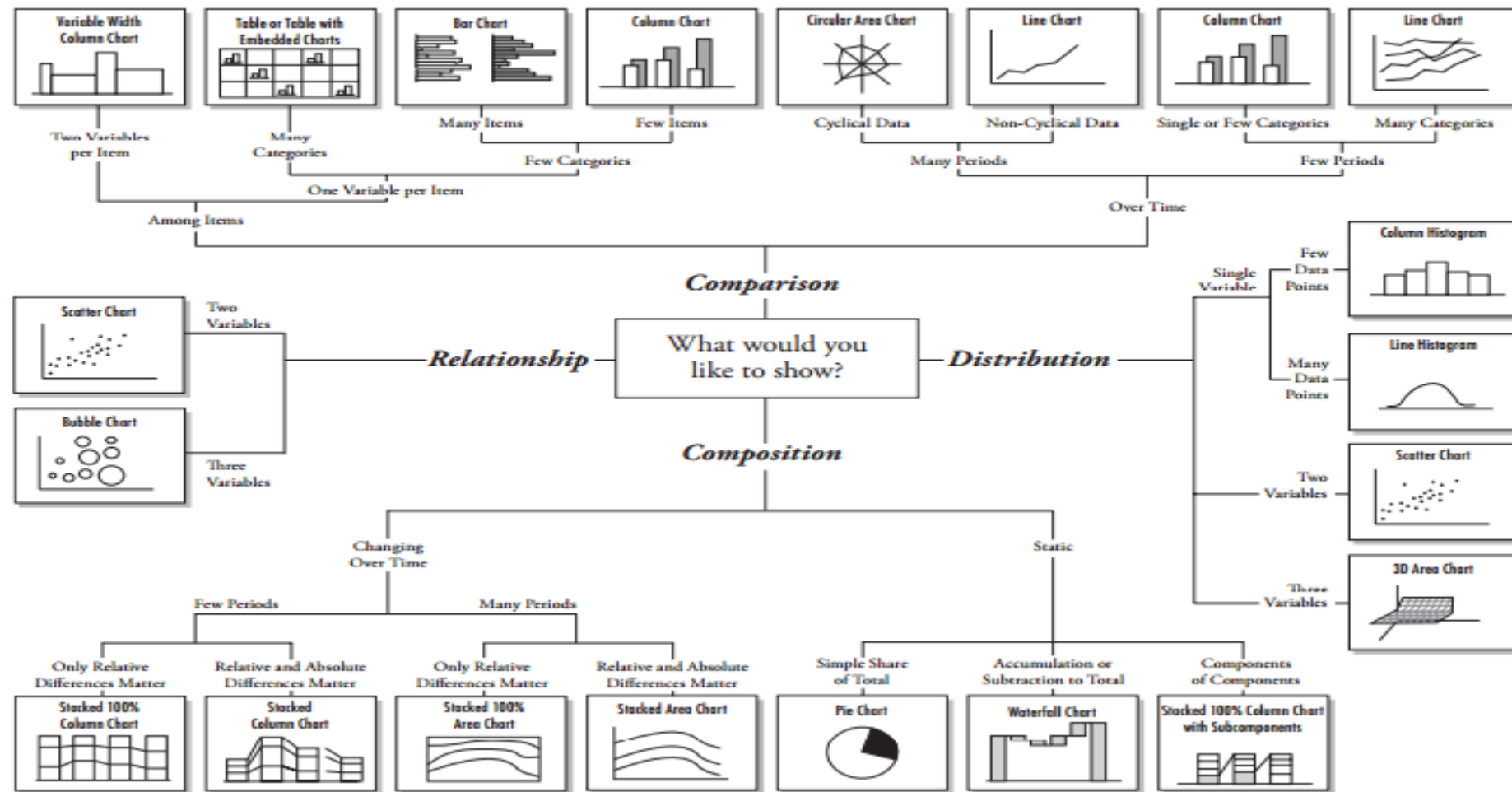
# Data Visualization II

Universitas Airlangga, 4 September 2018

Achmad Wildan Al Aziz



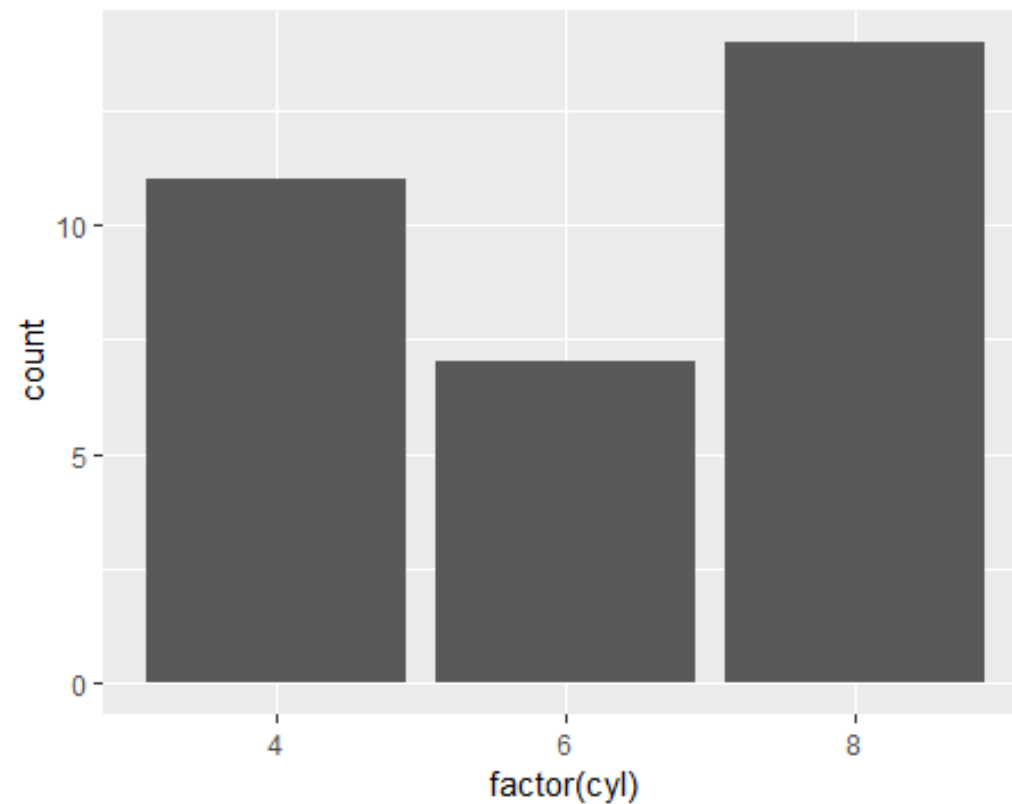
## Chart Suggestions—A Thought-Starter



# Bar Plot



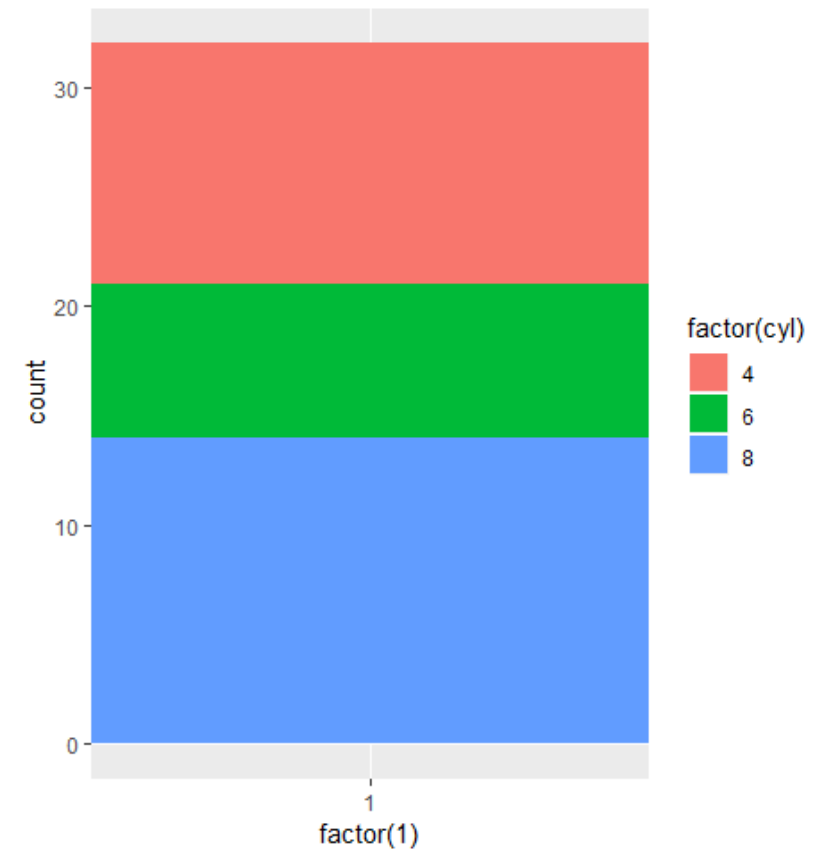
```
> ggplot(mtcars, aes(factor(cyl))) +  
  geom_bar()
```



# Stacked bar chart



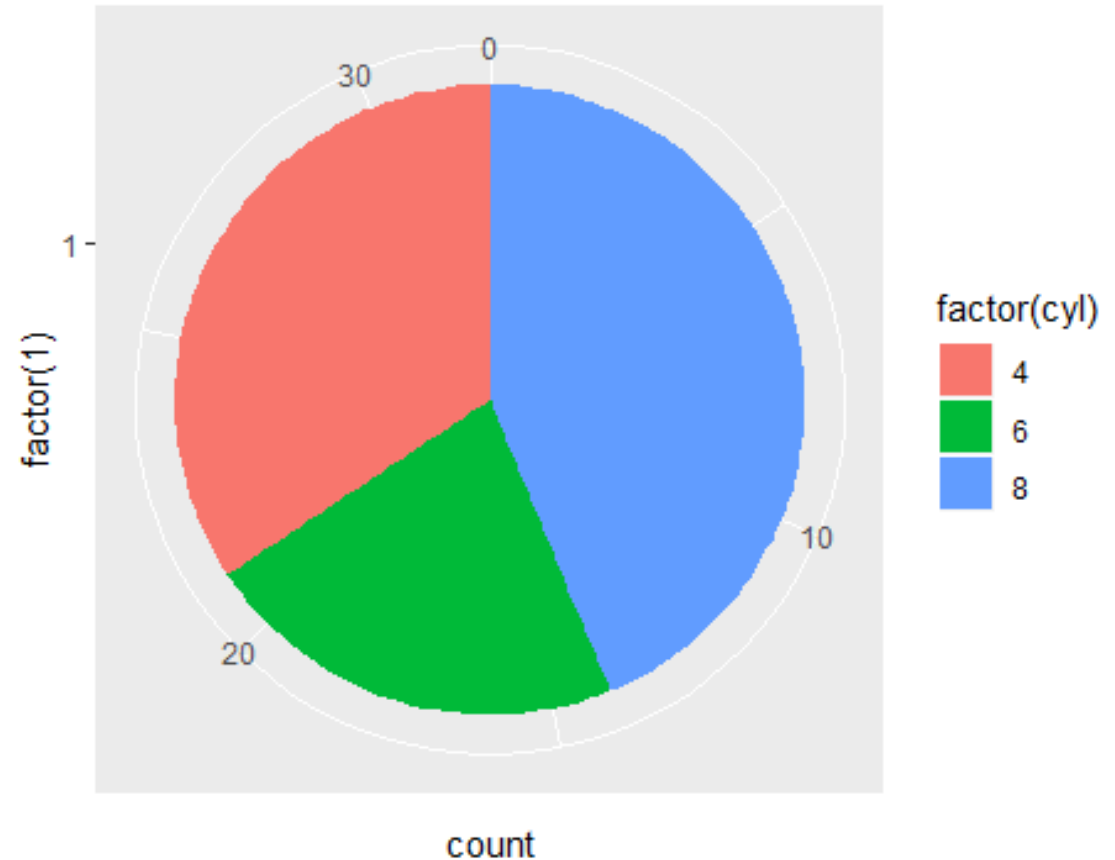
```
> ggplot(mtcars, aes(x = factor(1), fill = factor(cyl))) +  
  geom_bar(width = 1)
```



# Pie Chart



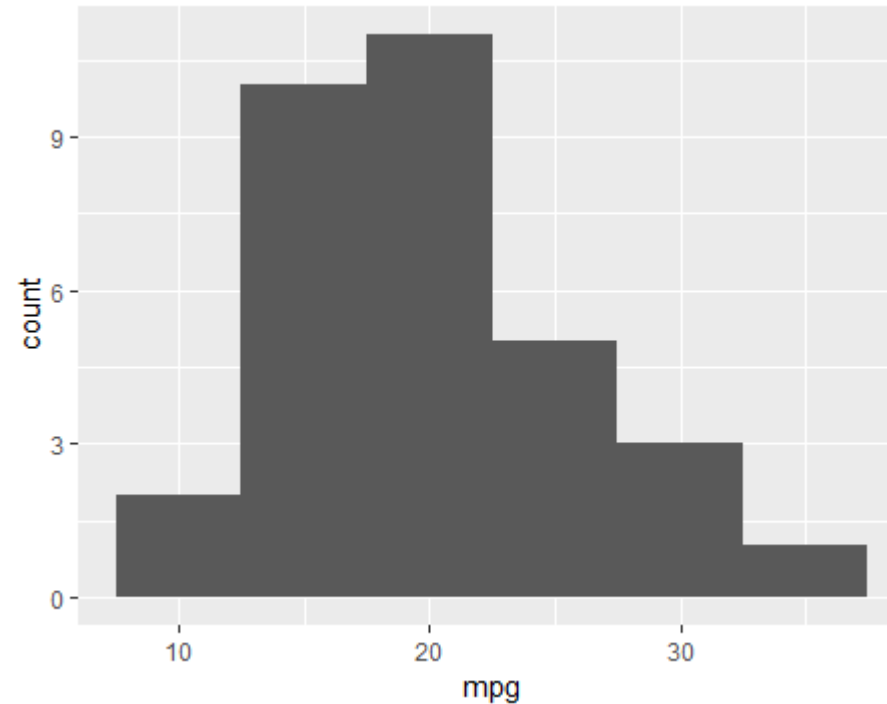
```
> ggplot(mtcars, aes(x = factor(1), fill = factor(cyl))) +  
  geom_bar(width = 1) +  
  coord_polar(theta = "y")
```



# Histogram



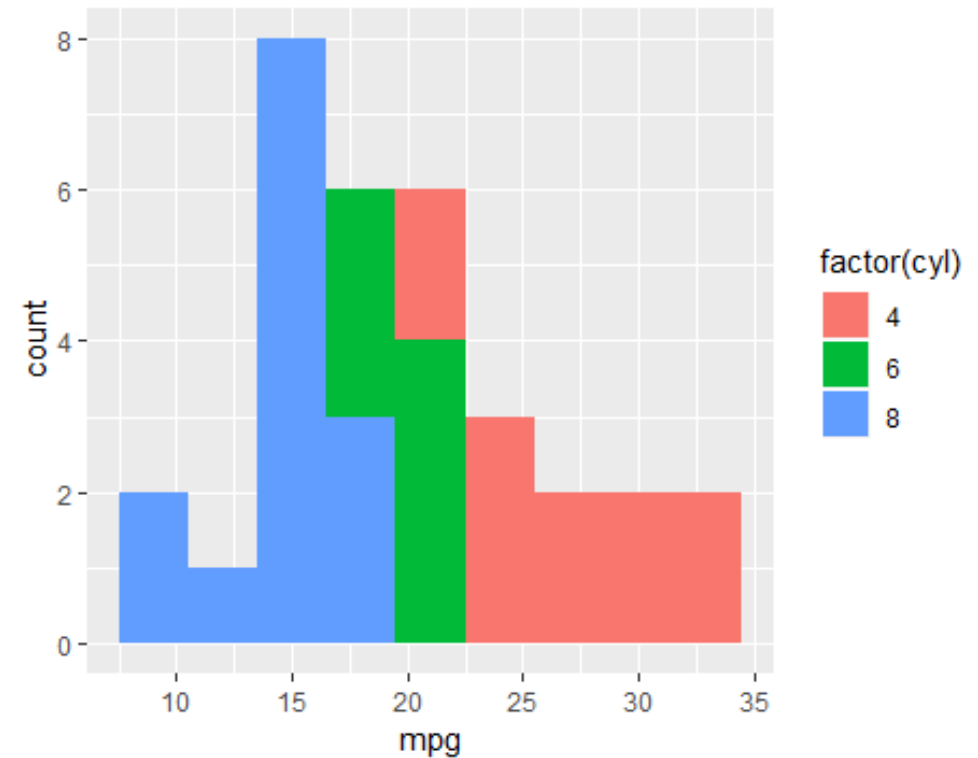
```
> ggplot(mtcars, aes(x = mpg)) +  
  geom_histogram(binwidth = 5)
```



# Histogram II



```
> ggplot(mtcars, aes (x = mpg, fill= factor(cyl))) +  
  geom_histogram(binwidth =3)
```

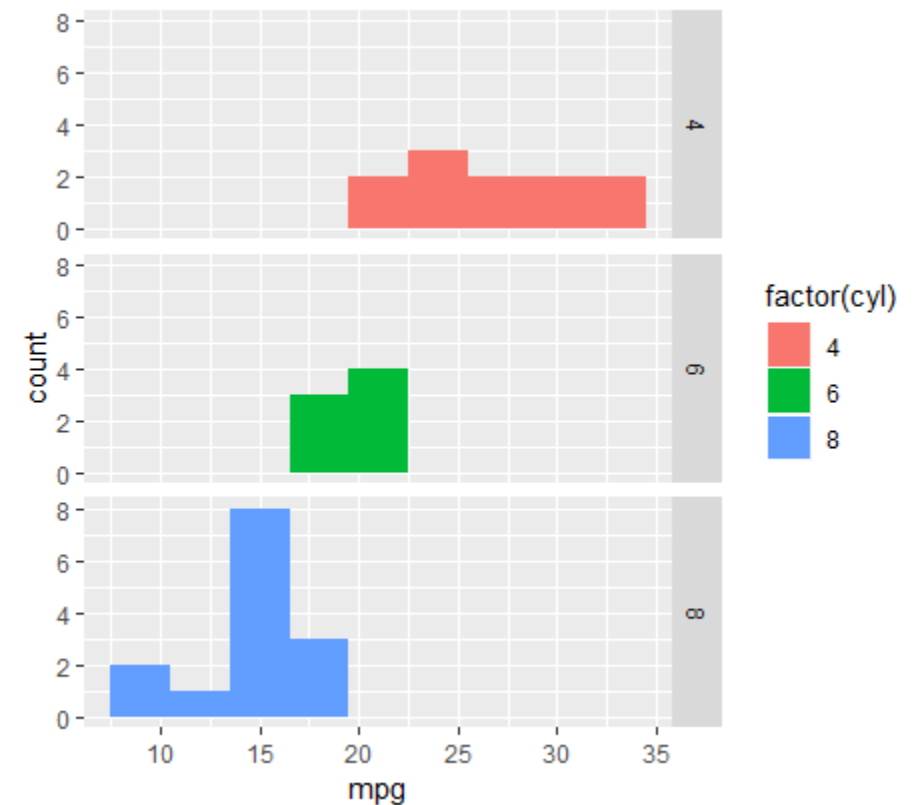




# Histogram III



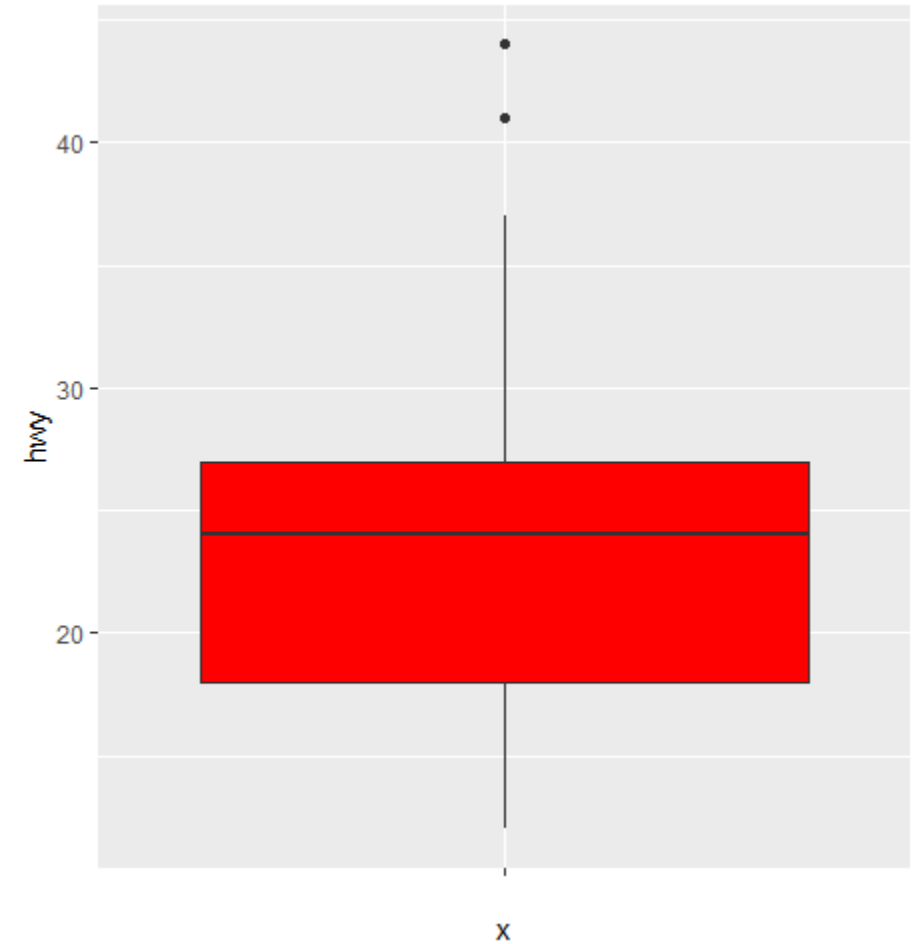
```
> ggplot(mtcars, aes (x = mpg, fill= factor(cyl))) +  
  geom_histogram(binwidth =3) +  
  facet_grid(factor(cyl) ~ .)
```



# Box Plot



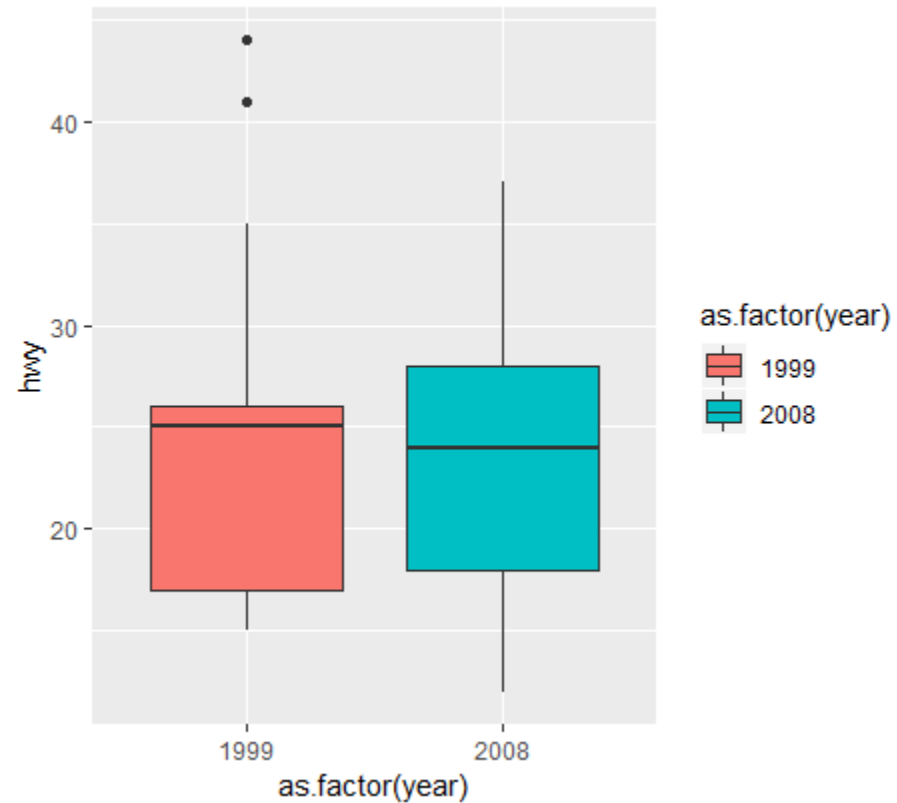
```
> ggplot(mpg, aes(x="", y=hwy)) +  
  geom_boxplot(fill="red")
```



# Box Plot II



```
> ggplot(mpg, aes(x=as.factor(year), y=hwy, fill=as.factor(year))) +  
  geom_boxplot()
```



# Let's Get Your Hands Dirty

Data = `txhousing`

Information about the housing market in Texas

A data frame with 8602 observations and 9 variables:

city	year	month	sales	volume	median	listings	inventory	date
Abilene	2000	1	72	5380000	71400	701	6.3	2000.000
Abilene	2000	2	98	6505000	58700	746	6.6	2000.083
Abilene	2000	3	130	9285000	58100	784	6.8	2000.167
Abilene	2000	4	98	9730000	68600	785	6.9	2000.250
Abilene	2000	5	141	10590000	67300	794	6.8	2000.333