### Home Work Data Viz Live 01

tamakuku

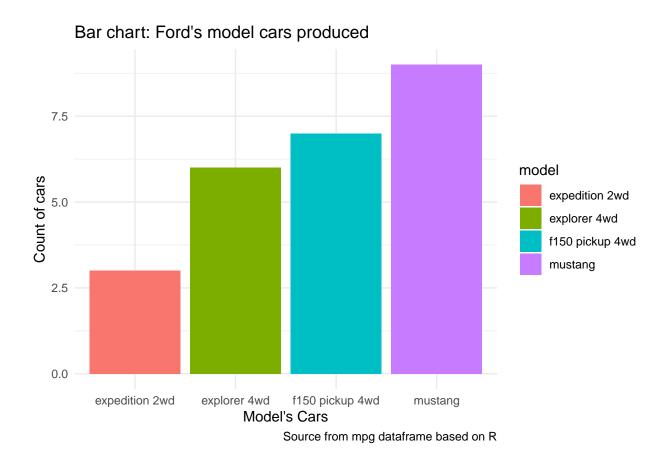
2024-01-09

#### install packages and call library must using

```
install.packages("ggplot2")
install.packages("tidyverse")

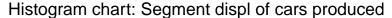
library(ggplot2)
library(tidyverse)
```

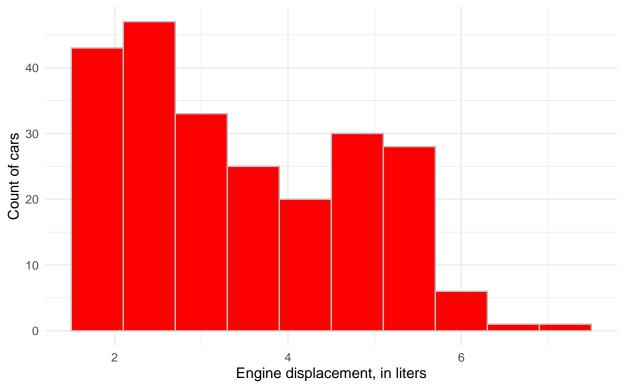
## Chart 1. Bar plot $\gg$ to find the popular model produced by Ford's cars.



insight Chart 1. : The Mustang is the most popular model car produced by Ford's manufacturer.

Chart 2. Histogram plot »> to Segment 'displ' (or engine displacement, in liters) of cars was produced.





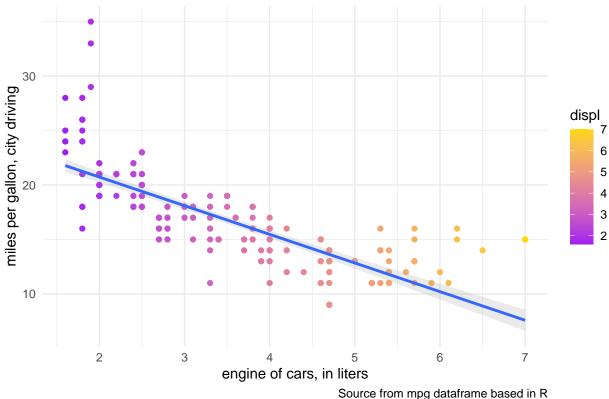
Source from mpg dataframe based on R

insight Chart 2. : If a car's have 'displ'(or engine displacement) more than 6 liters, it is less was produced.

Chart 3. Scatter plot »> to find a relationship between 'displ'(or engine displacement, in liters) and 'cty'(or city distance, in miles per gallon).

## Warning: The following aesthetics were dropped during statistical transformation: colour
## i This can happen when ggplot fails to infer the correct grouping structure in
## the data.
## i Did you forget to specify a `group` aesthetic or to convert a numerical
## variable into a factor?

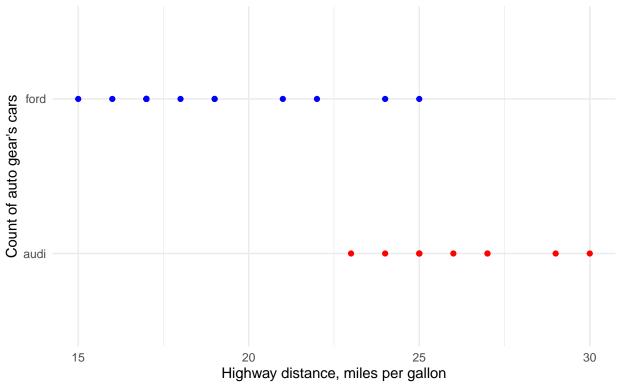
### Scatter chart: Relationship displ & cty



insight Chart 3. : If a car's 'displ'(or engine displacement) has more liters, it can drive less distance in the city.

# Chart 4. Scatter plot by 2 data.frame »> to compare Ford and Audi by auto gear, which one can drive long distances on highways?

#### Scatter chart Auto Gear's cars Ford vs Audi

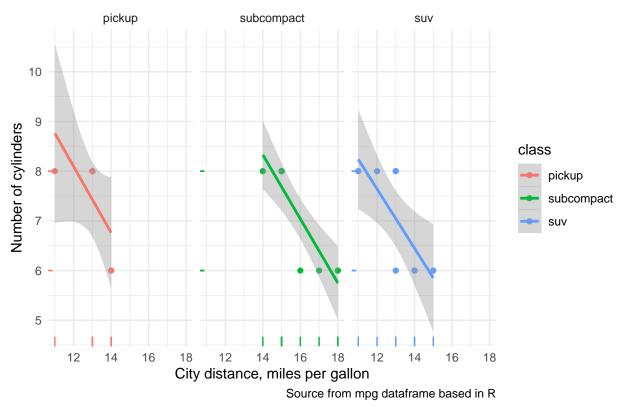


Source from mpg dataframe based in R

insight Chart 4.: When comparing two manufacturer's cars with auto gear, Audi can drive on the highway for more distance than Ford.

Chart 5. Scatter plot with Mapping + Facet »> to find the relationship between 'cyl' (or number of cylinders) and 'cty' (or city distance, in miles per gallon), in each class of cars.

### Multi Scatter chart: Relationship cyl & cty in each class



insight Chart 5. : The subcompact class of Ford has six cylinders; it's the best Eco's car.