



# EDA Used Cars Dataset



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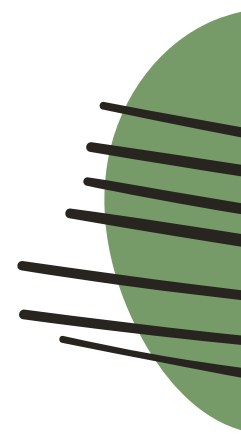
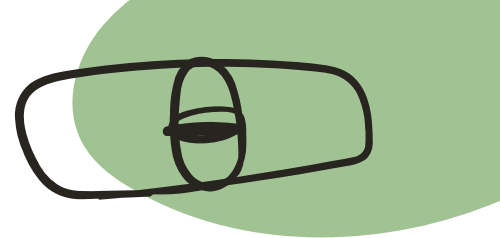
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# Introduction

When purchasing a car, there are many factors that go into making that decision. It's important that the car fits into the customer's budget as well as their lifestyle.

While purchasing a pre-owned vehicle is often a more economical option, the buyer may also consider the car's mileage, condition, manufacturer, etc. Using a dataset containing information about vehicles listed on Craigslist.

# Dataset Description

Feature	Description
<b>id</b>	Vehicle Identification Number
<b>region_url</b>	Link to region page
<b>region</b>	Craigslist region in which this listing was posted
<b>url</b>	Link to listing
<b>price</b>	Price of vehicle
<b>year</b>	Year of vehicle
<b>manufacturer</b>	Manufacturer of vehicle
<b>model</b>	Model of vehicle

# Dataset Description

Feature	Description
<b>cylinders</b>	Number of cylinders of vehicle
<b>size</b>	Size of vehicle
<b>type</b>	Vehicle type
<b>paint_color</b>	Color of vehicle
<b>image_url</b>	Link to image of vehicle
<b>description</b>	Listing description provided by owner
<b>county</b>	County of Vehicle
<b>state</b>	State of Vehicle
<b>lat</b>	Latitude of vehicle (not precise but very close)

# Dataset Description

Feature	Description
<b>drive</b>	Drive of vehicle
<b>condition</b>	Condition of vehicle
<b>fuel</b>	taken by vehicle
<b>VIN</b>	Vehicle Identification Number
<b>odometer</b>	Vehicle type
<b>paint_color</b>	Color of vehicle
<b>image_url</b>	Link to image of vehicle
<b>long</b>	Longitude of vehicle (not precise but very close)
<b>posting_date</b>	Date posting of Vehicle

- The dataset contains 26 features, 426880 observation.

# Preprocessing

01

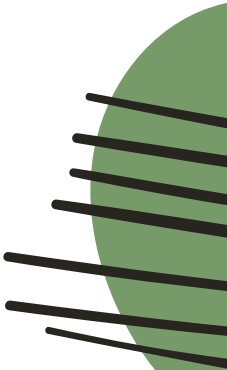
Read Data

02

Check if there is  
missing values

03

Check if there is  
outliers





# Clean Data

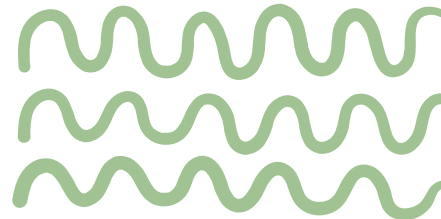


After reading Data then check missing values, and outliers.

Handling missing data by :

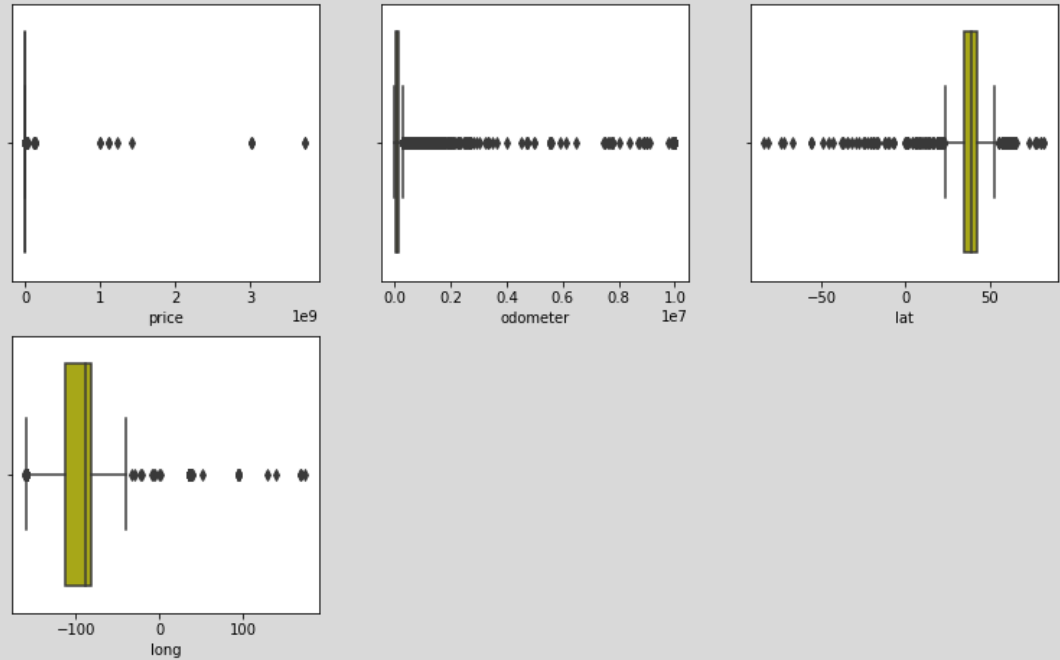
- drop 5 columns we didn't need it at all.
- separate data to Numerical and Categorical.

fill value in numerical with mean , fill value in categorical with mode

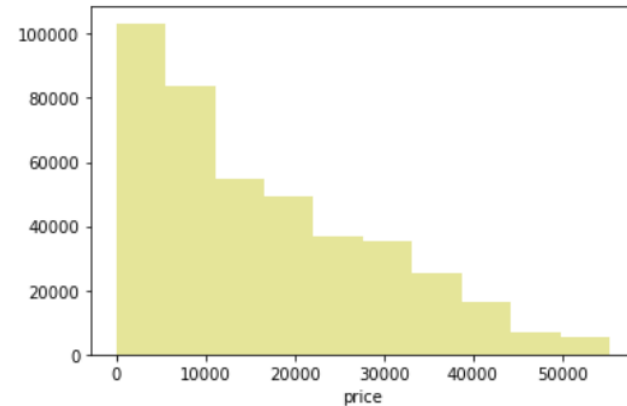
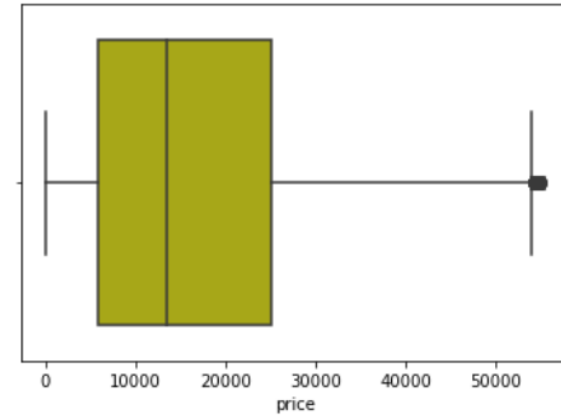




# outlier detection in numerical



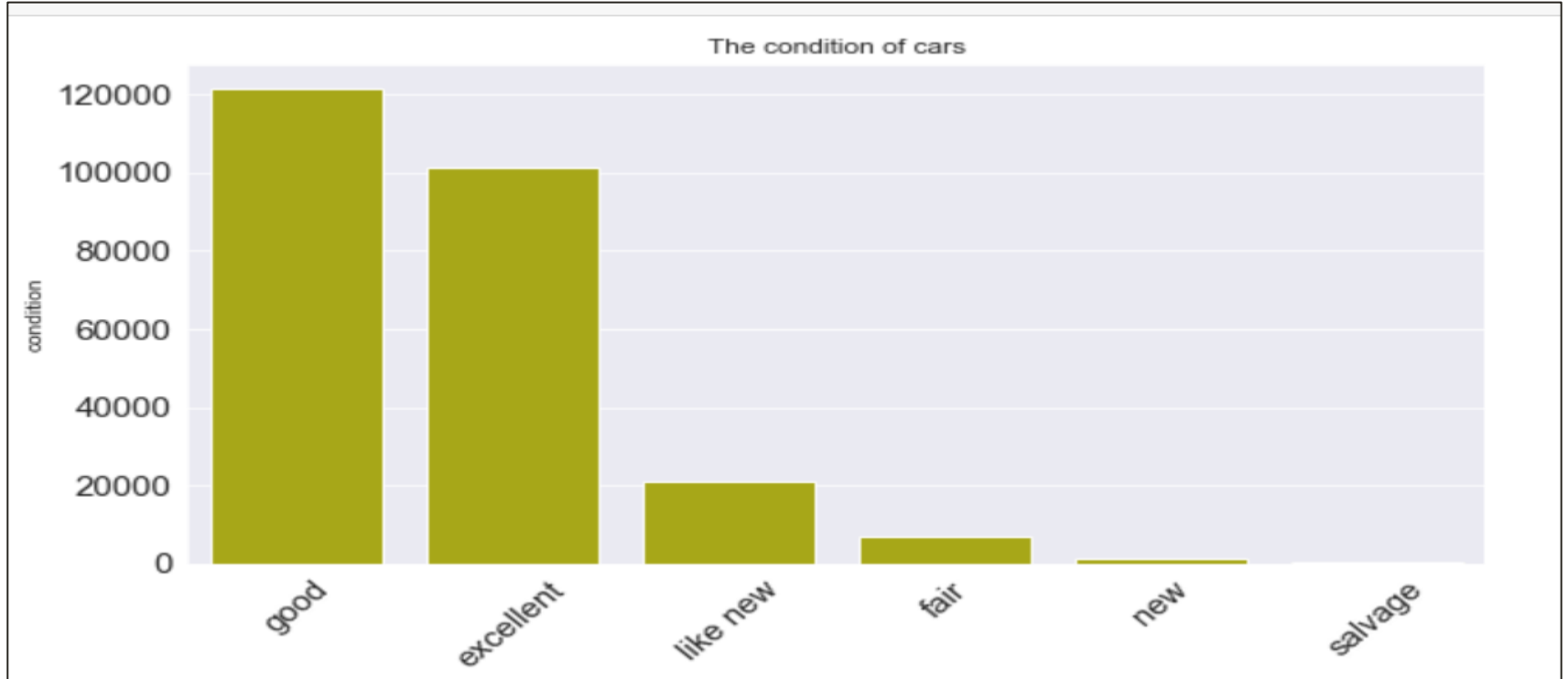
After dropping outliers,  
let's check the boxplot and  
histogram of our data.



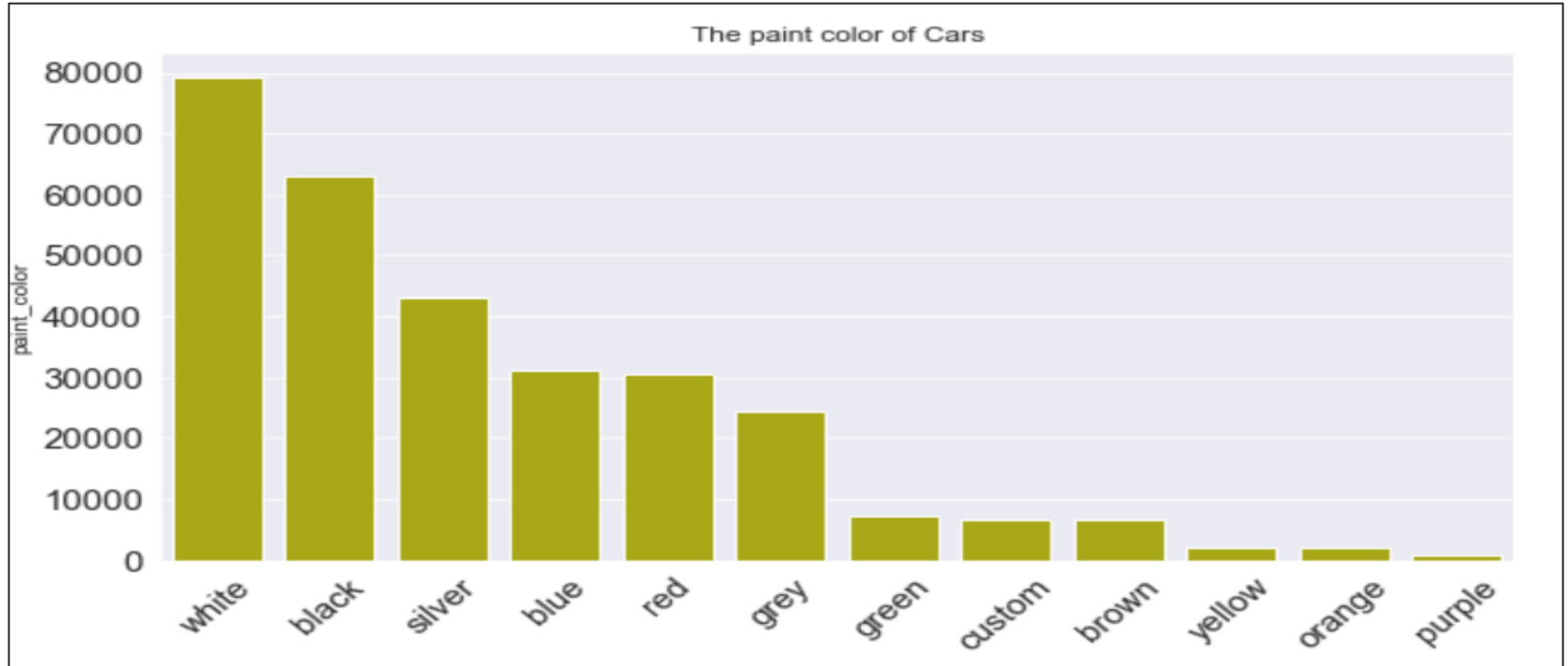
# Results

For Categorical:

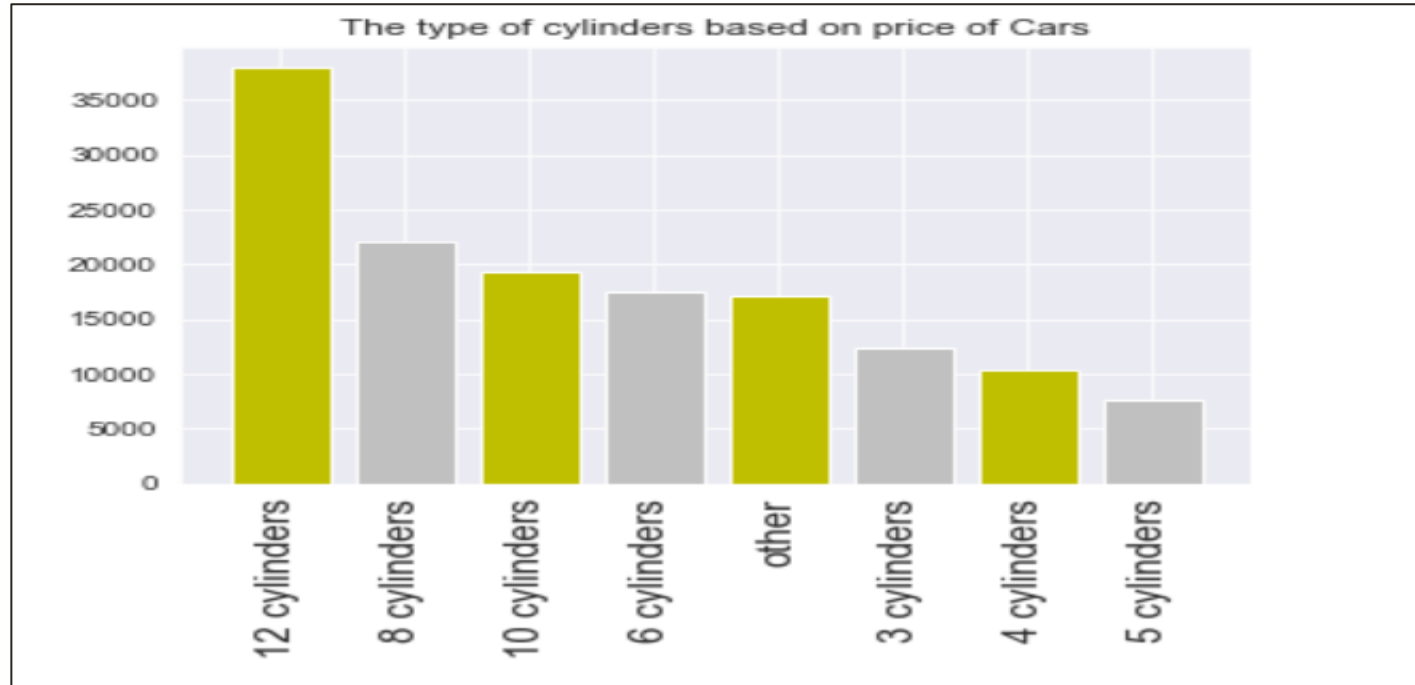
1- The condition of cars.



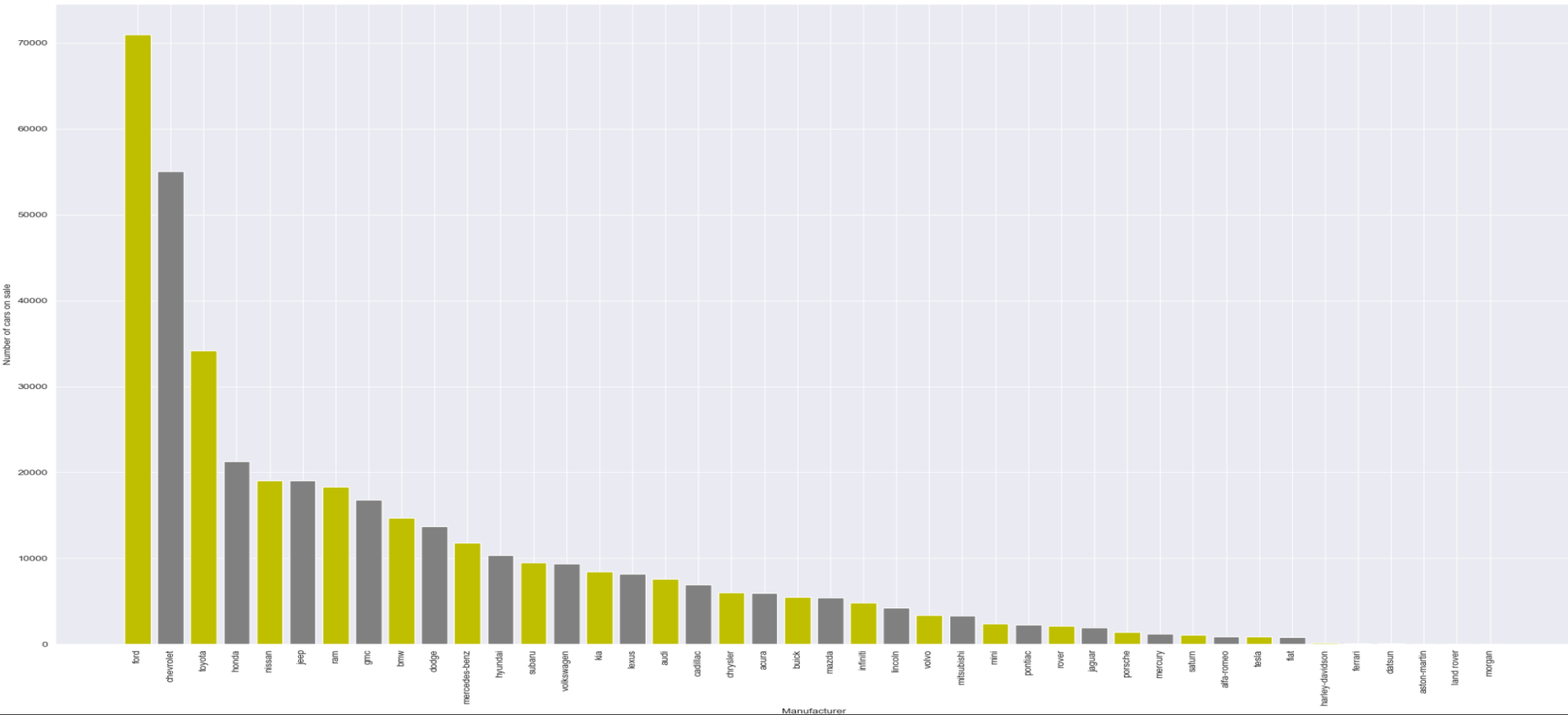
## 2- The paint color of cars.



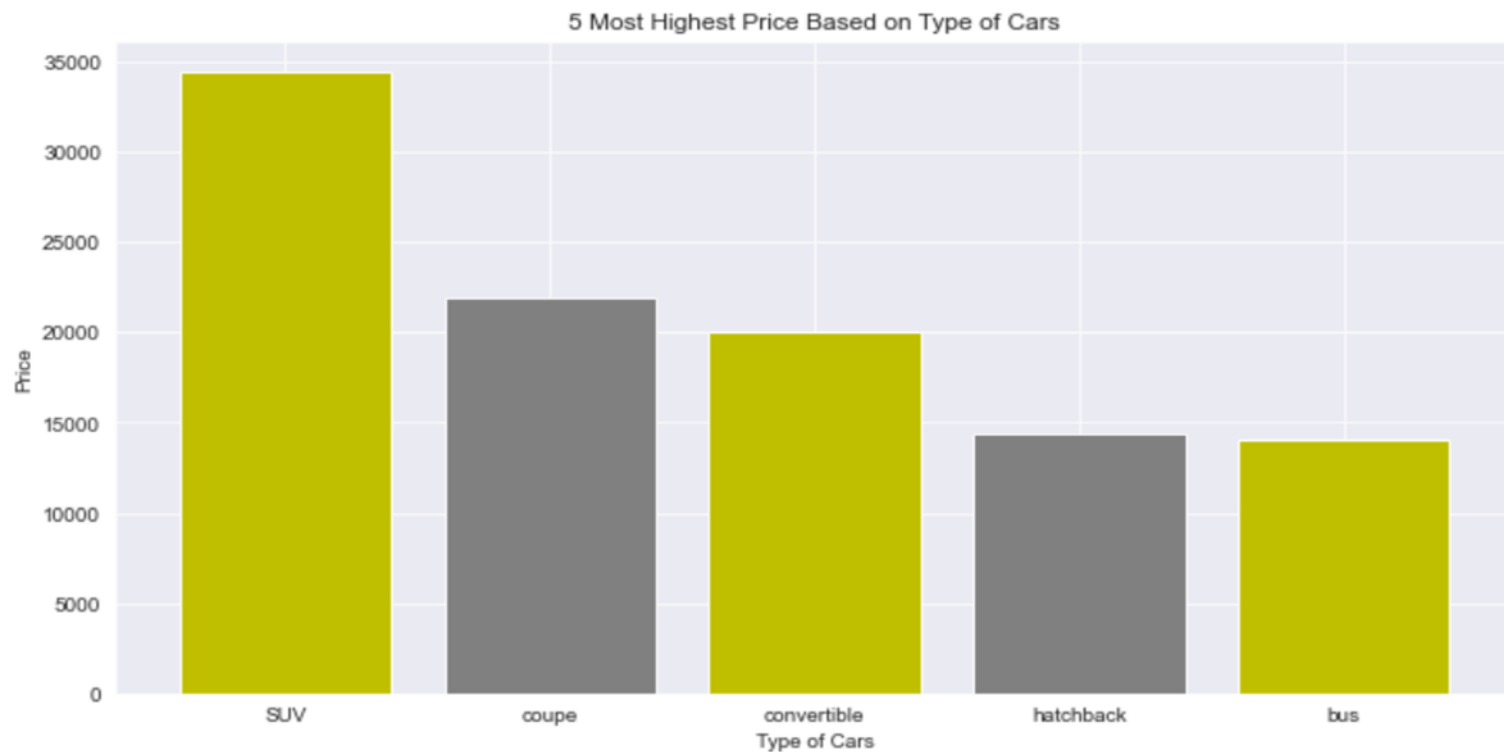
### 3- The cylinders of cars.



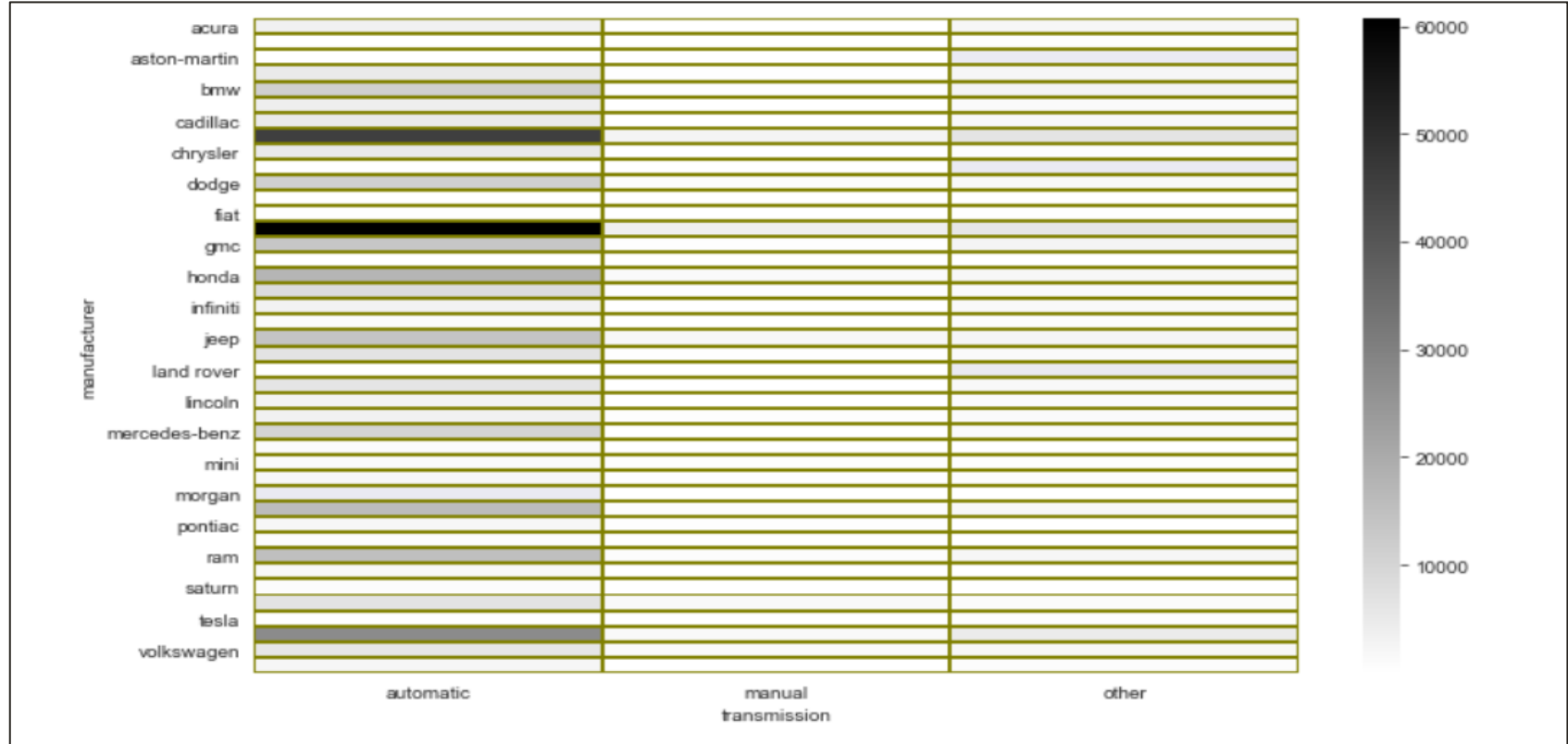
# 1- The most common manufacturers in dataset based on number of cars?



## 2-The Highest Price Based on Type Car?



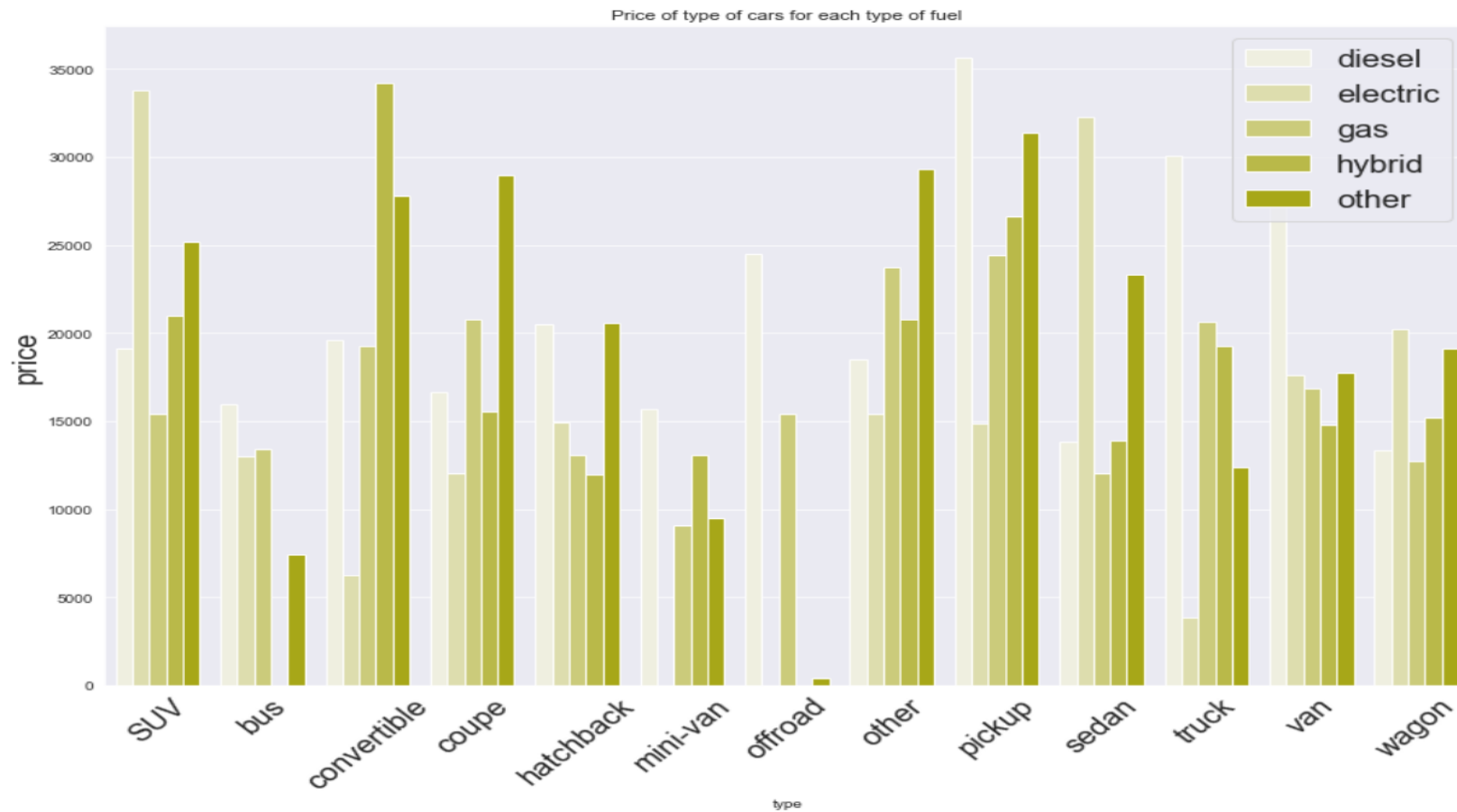
### 3-The most transmission type used based on manufacturer?



It was no surprise that automatic used cars dominated the used cars market.



## - Price of type of cars for each type of fuel





## CONCLUSIONS

If you want to buy a certain type of used car, chart above could help you to decide what manufacturer to go for or type of cylinders .

So, those are some information we can obtain by doing this EDA.



Thanks...