```
import pandas as pd
import matplotlib.pyplot as plt


# Downloading Data from website
!wget https://raw.githubusercontent.com/asukul/DS201/master/datasets/Automobile_price
```

```
--2022-10-23 19:03:27--  https://raw.githubusercontent.com/asukul/DS201/master/da
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.108.1
Connecting to raw.githubusercontent.com (raw.githubusercontent.com)|185.199.108.
HTTP request sent, awaiting response... 200 OK
Length: 24412 (24K) [text/plain]
Saving to: 'Automobile_price_data_Cleaned.csv'

Automobile_price_da 100%[===================>]  23.84K  --.-KB/s    in 0s

2022-10-23 19:03:27 (129 MB/s) - 'Automobile_price_data_Cleaned.csv' saved [2441
```

```
#Preview first 5 rows
df = pd.read_csv('Automobile_price_data_Cleaned.csv')
df.head()
```

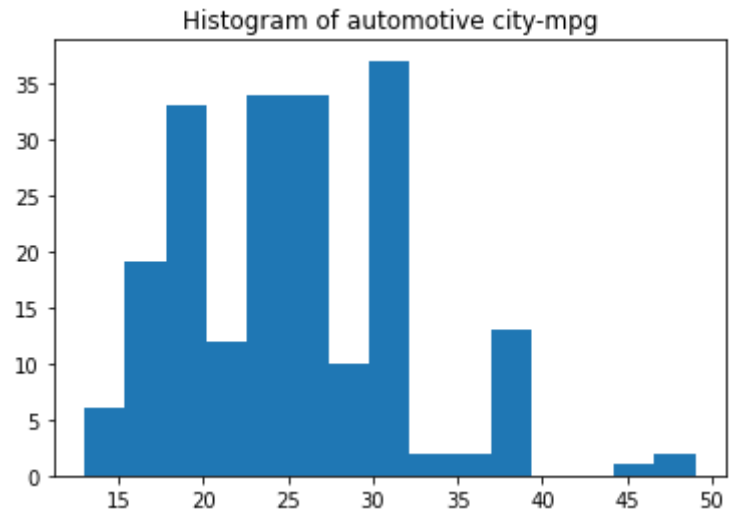
	symboling	make	fuel-type	aspiration	num-of-doors	body-style	drive-wheels	engine-location	wheel-base
0	3	alfa-romero	gas	std	two	convertible	rwd	front	88.6
1	3	alfa-romero	gas	std	two	convertible	rwd	front	88.6
2	1	alfa-romero	gas	std	two	hatchback	rwd	front	94.5
3	2	audi	gas	std	four	sedan	fwd	front	99.8
4	2	audi	gas	std	four	sedan	4wd	front	99.4

5 rows × 25 columns

```
df.describe()
```

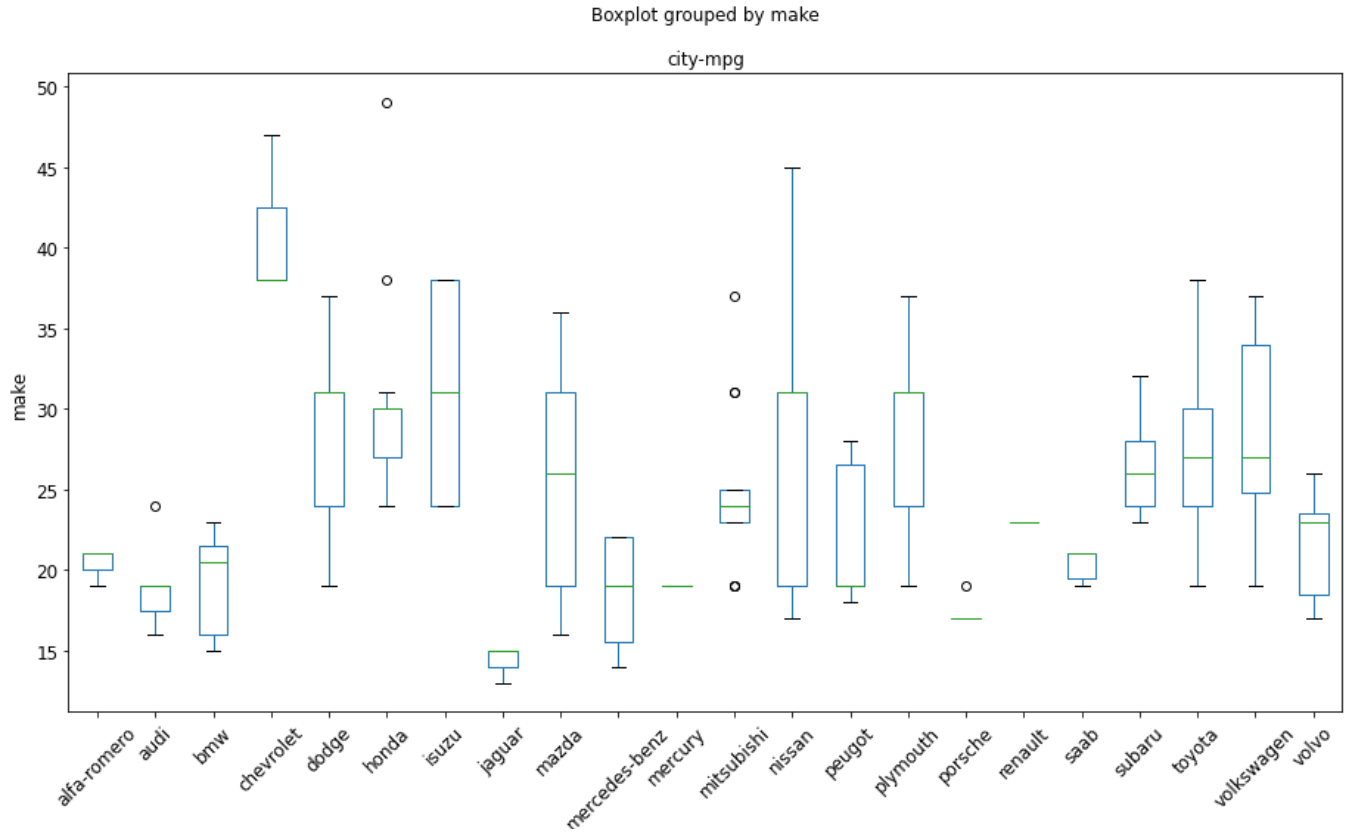
	symboling	wheel-base	length	width	height	curb-weight	engine-size
count	205.000000	205.000000	205.000000	205.000000	205.000000	205.000000	205.000000
mean	0.834146	98.756585	174.049268	65.907805	53.724878	2555.565854	126.907317
std	1.245307	6.021776	12.337289	2.145204	2.443522	520.680204	41.642693
min	-2.000000	86.600000	141.100000	60.300000	47.800000	1488.000000	61.000000
25%	0.000000	94.500000	166.300000	64.100000	52.000000	2145.000000	97.000000
50%	1.000000	97.000000	173.200000	65.500000	54.100000	2414.000000	120.000000
75%	2.000000	102.400000	183.100000	66.900000	55.500000	2935.000000	141.000000
max	3.000000	120.900000	208.100000	72.300000	59.800000	4066.000000	326.000000

```
plt.hist(df['city-mpg'],bins=15)
plt.title('Histogram of automotive city-mpg')
plt.show()
```



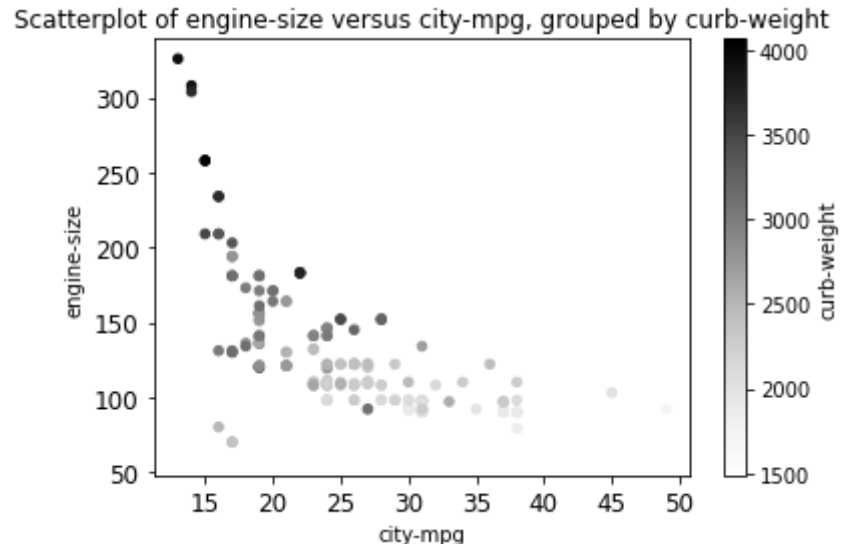

```
df1 = df.boxplot(column='city-mpg', by = 'make', rot=45, figsize = (15,8),fontsize= 12
df1.set_xlabel('city-mpg', fontsize=12)
df1.set_ylabel ('make', fontsize = 12)
plt.show()
```

```
/usr/local/lib/python3.7/dist-packages/matplotlib/cbook/__init__.py:1376: Visibl
  X = np.atleast_1d(X.T if isinstance(X, np.ndarray) else np.asarray(X))
```




```
chart2 = df.plot.scatter(x = 'city-mpg', y = 'engine-size', c= 'curb-weight', fontsize
chart2.set_title('Scatterplot of engine-size versus city-mpg, grouped by curb-weight')
```

```
Text(0.5, 1.0, 'Scatterplot of engine-size versus city-mpg, grouped by curb-
weight')
```



Colab paid products - Cancel contracts here

✓ 0s completed at 14:16