exploring_visuals

October 23, 2017

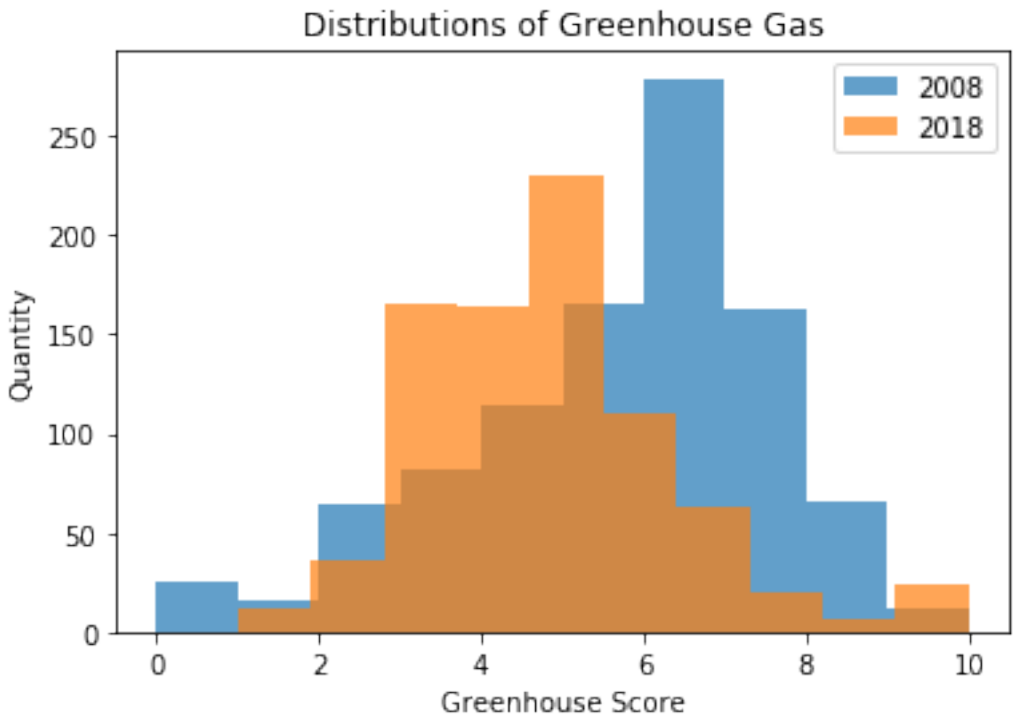
1 Exploring with Visuals

Use `clean_08.csv` and `clean_18.csv`

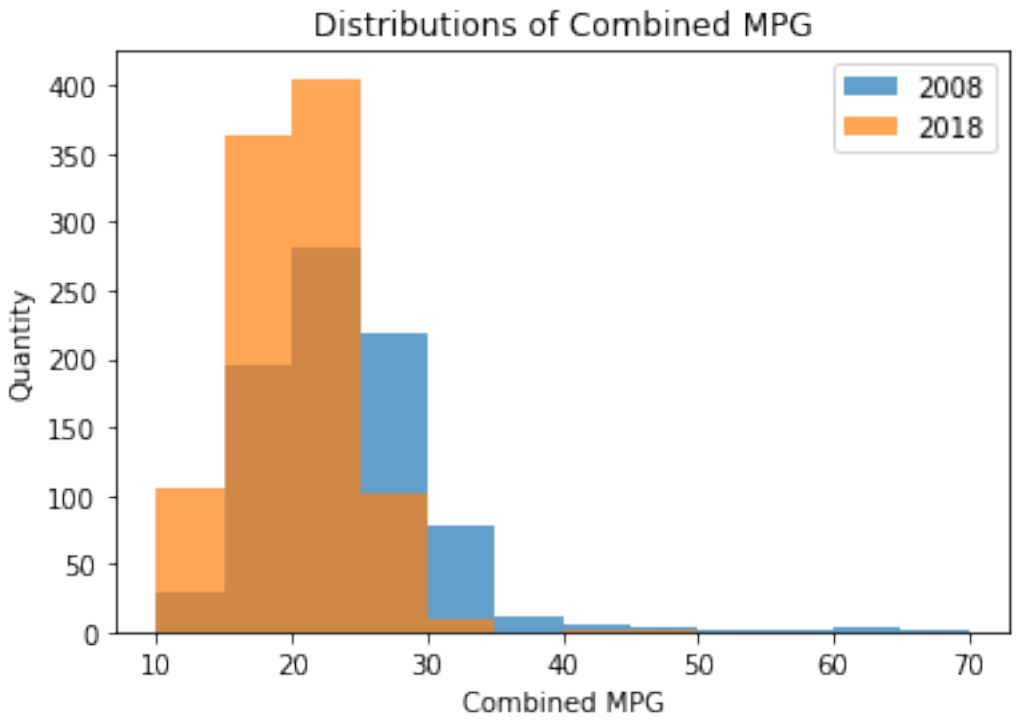
In [3]:
```
# load datasets
import pandas as pd
import matplotlib.pyplot as plt
% matplotlib inline
df_08 = pd.read_csv('clean_08.csv')
df_18 = pd.read_csv('clean_18.csv')
```

In [21]:
```
#df_18.info()
```

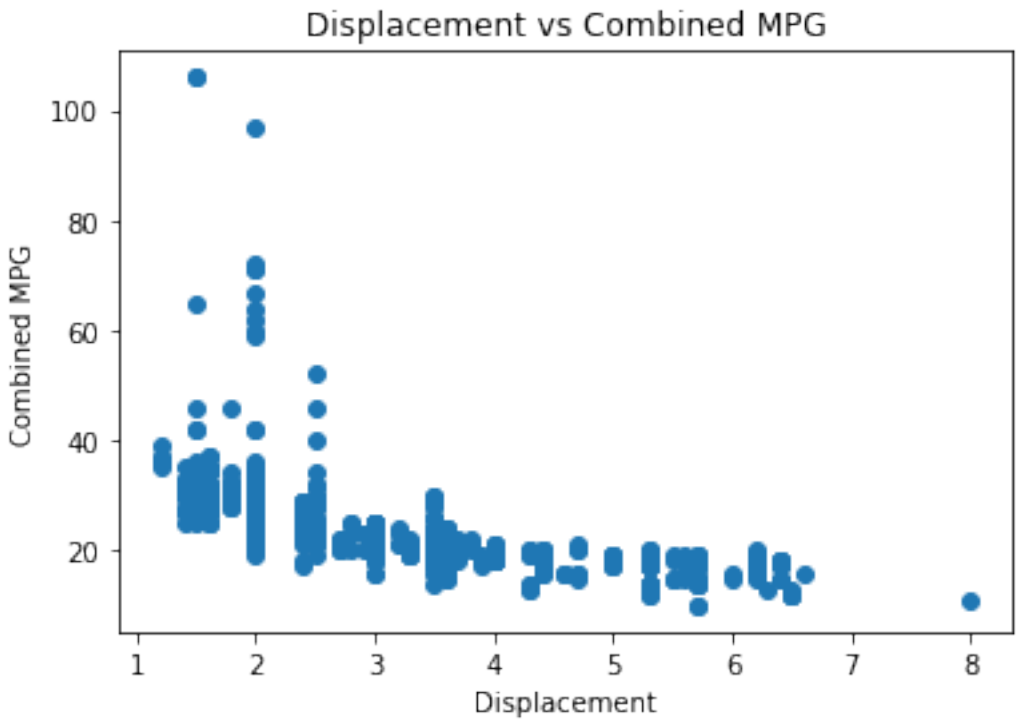
In [4]:
```
plt.hist(df_08['greenhouse_gas_score'], alpha=0.7)
plt.hist(df_18['greenhouse_gas_score'], alpha=0.7)
plt.title('Distributions of Greenhouse Gas')
plt.xlabel('Greenhouse Score')
plt.ylabel('Quantity')
plt.legend(['2008', '2018']);
```



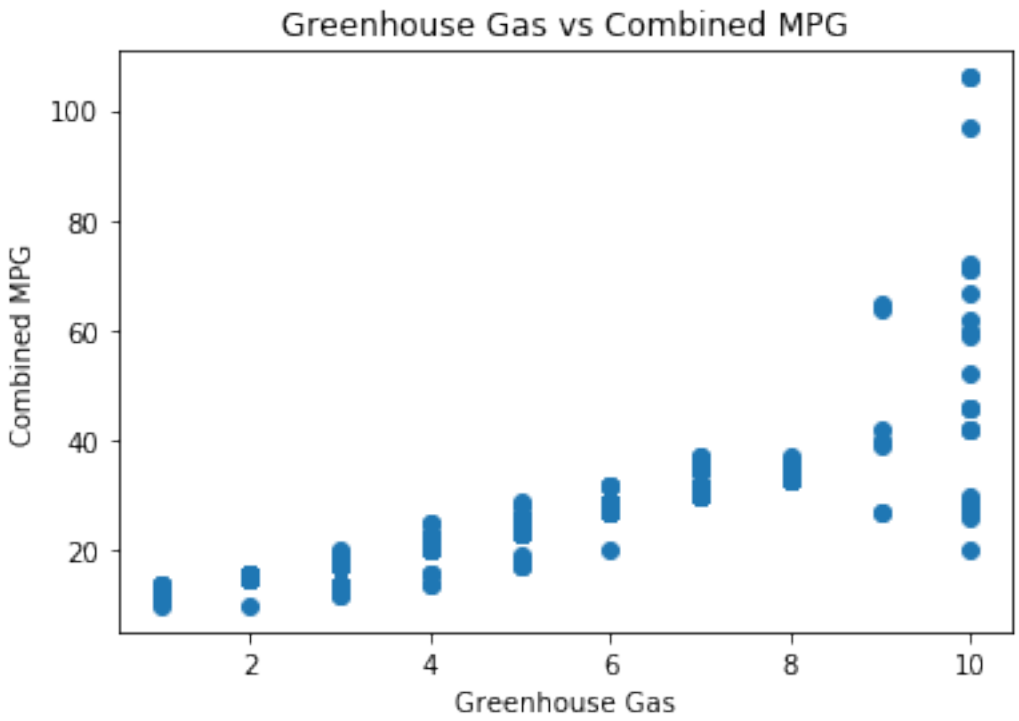
In [5]:
```
#plt.hist(df_08['cmb_mpg'], alpha=0.7)
#plt.hist(df_18['cmb_mpg'], alpha=0.7)
plt.hist(df_18['cmb_mpg'], range=[10, 70], bins=12, alpha=0.7)
plt.hist(df_08['cmb_mpg'], range=[10, 70], bins=12, alpha=0.7)
plt.title('Distributions of Combined MPG')
plt.xlabel('Combined MPG')
plt.ylabel('Quantity');
plt.legend(['2008', '2018']);
```




```
In [14]: x = df_18['displ']
         y = df_18['cmb_mpg']
         plt.scatter(x, y)
         plt.title('Displacement vs Combined MPG')
         plt.xlabel('Displacement')
         plt.ylabel('Combined MPG');
```




```
In [22]: x = df_18['greenhouse_gas_score']
         y = df_18['cmb_mpg']
         plt.scatter(x, y)
         plt.title('Greenhouse Gas vs Combined MPG')
         plt.xlabel('Greenhouse Gas')
         plt.ylabel('Combined MPG');
```


Greenhouse Gas vs Combined MPG
Combined MPG
100
80
60
40
20
2
4
6
8
10
Greenhouse Gas

In [ ]: