exploring_visuals

October 26, 2017

1 Exploring with Visuals

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

```
In [6]: # load datasets
        import pandas as pd
        % matplotlib inline

In [3]: df_08 = pd.read_csv('clean_08.csv')
        df_08.head(1)
```

Out[3]:

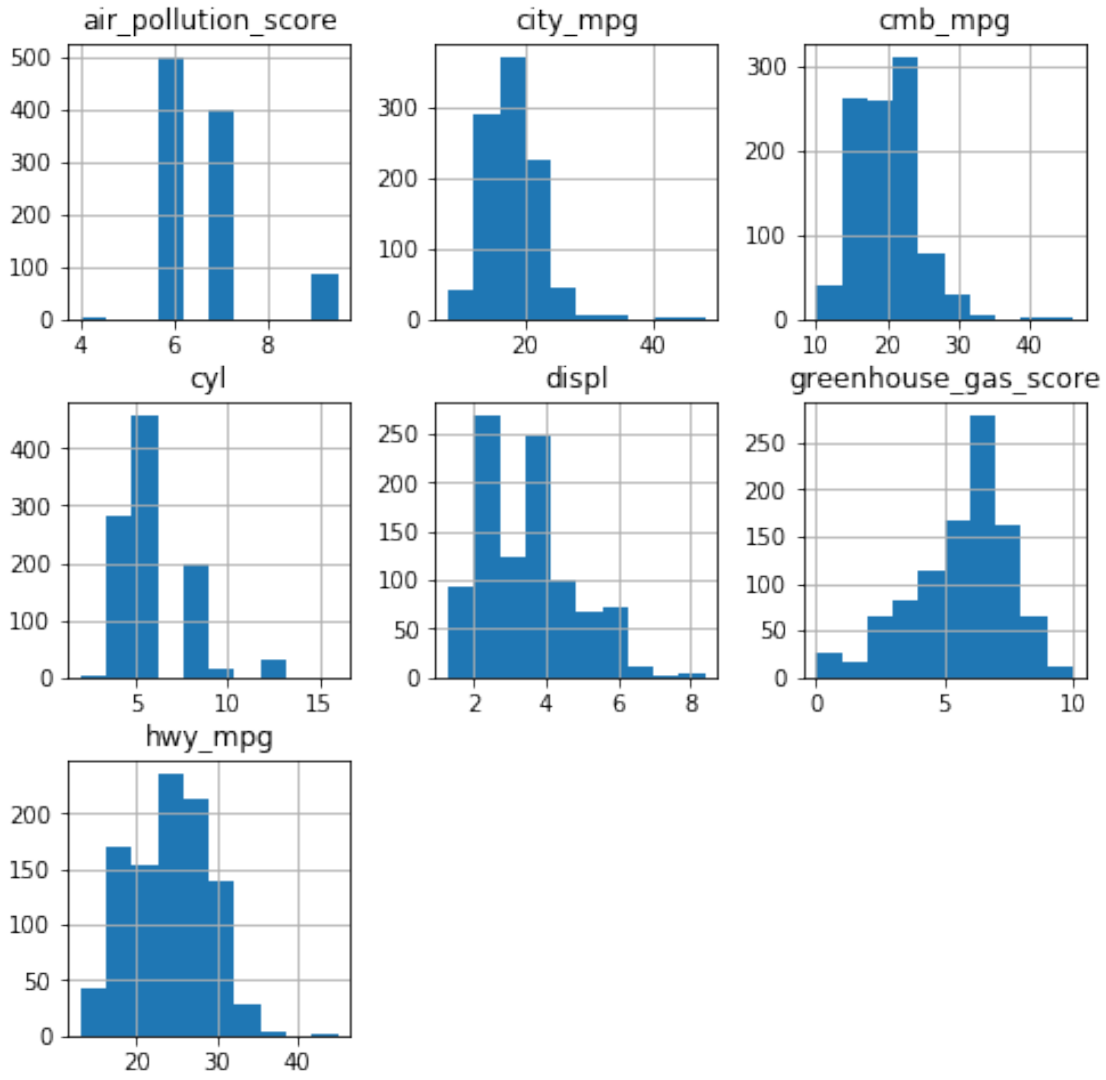
	model	displ	cyl	trans	drive	fuel	veh_class	air_pollution_score	city_mpg	hwy_mpg	cmb_mpg	greenhouse_gas_score	smartway
0	ACURA MDX	3.7	6	Auto-S5	4WD	Gasoline	SUV	7.0	15.0	20.0	17.0	4	no

```
In [4]: df_18 = pd.read_csv('clean_18.csv')
        df_18.head(1)
```

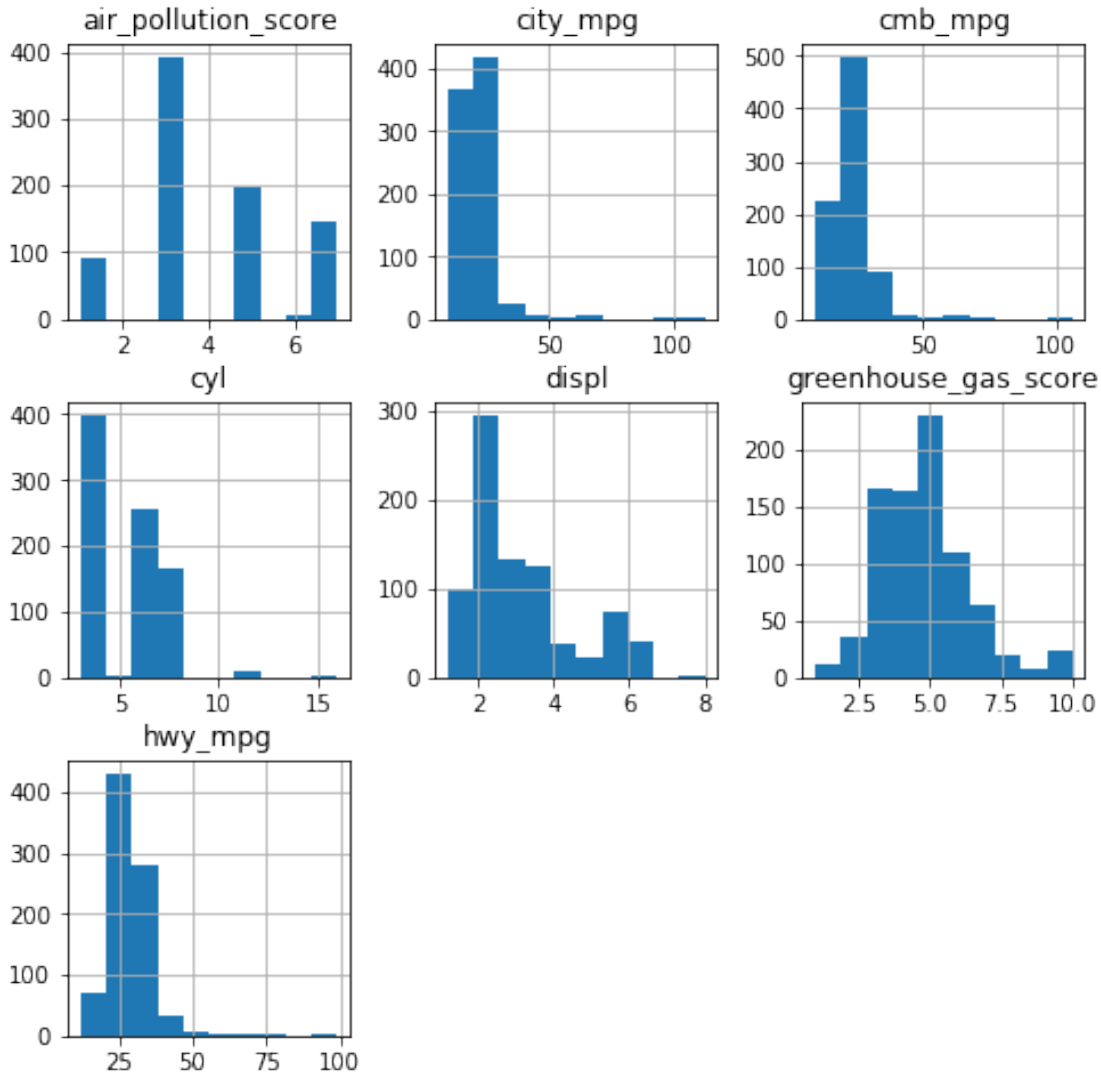
Out[4]:

	model	displ	cyl	trans	drive	fuel	veh_class	air_pollution_score	city_mpg	hwy_mpg	cmb_mpg	greenhouse_gas_score	smartway
0	ACURA RDX	3.5	6	SemiAuto-6	2WD	Gasoline	small SUV	3.0	20.0	28.0	23.0	5	No

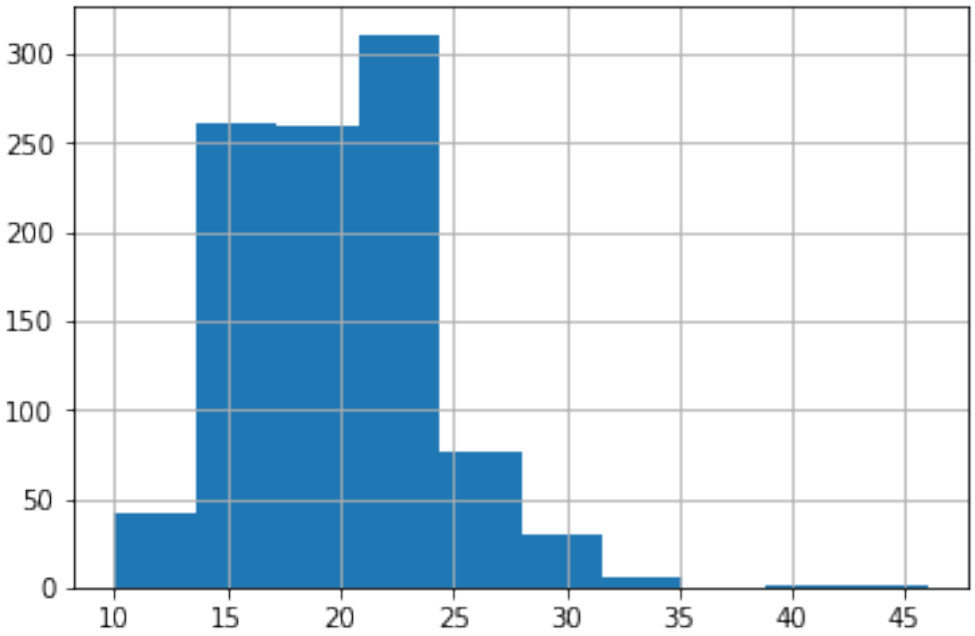
```
In [10]: df_08.hist(figsize=(8,8));
```



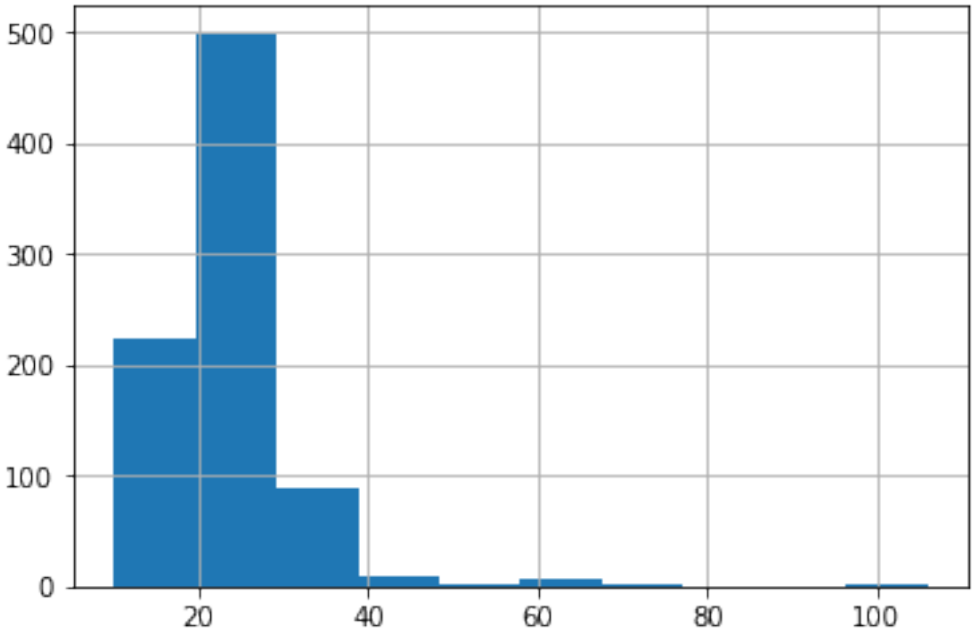

```
In [9]: df_18.hist(figsize=(8,8));
```



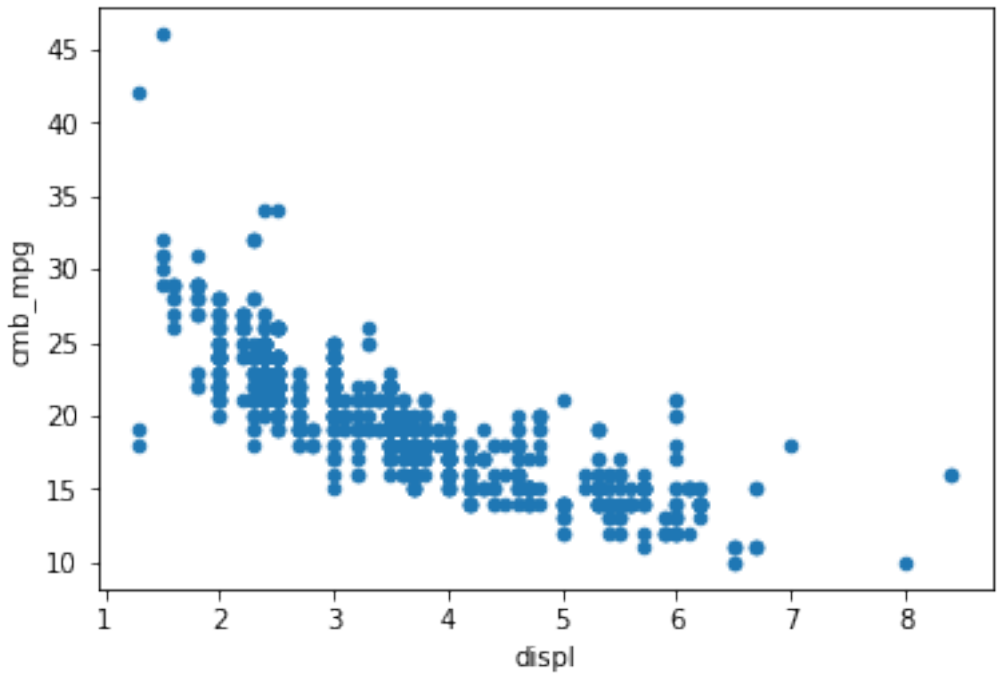

```
In [12]: df_08['cmb_mpg'].hist();
```



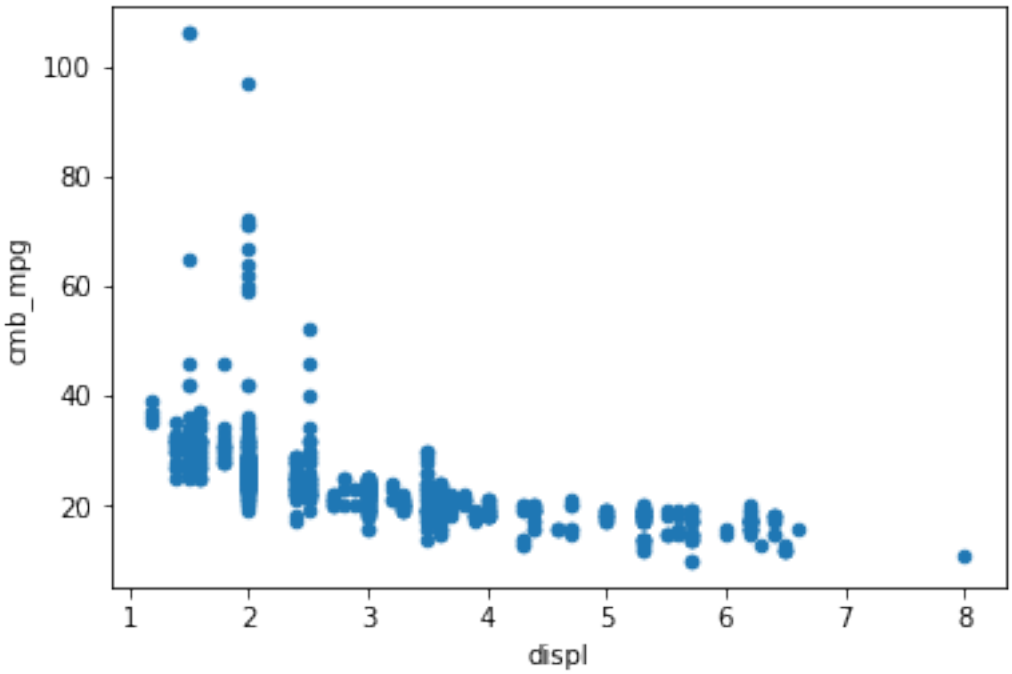
In [13]: df_18['cmb_mpg'].hist();



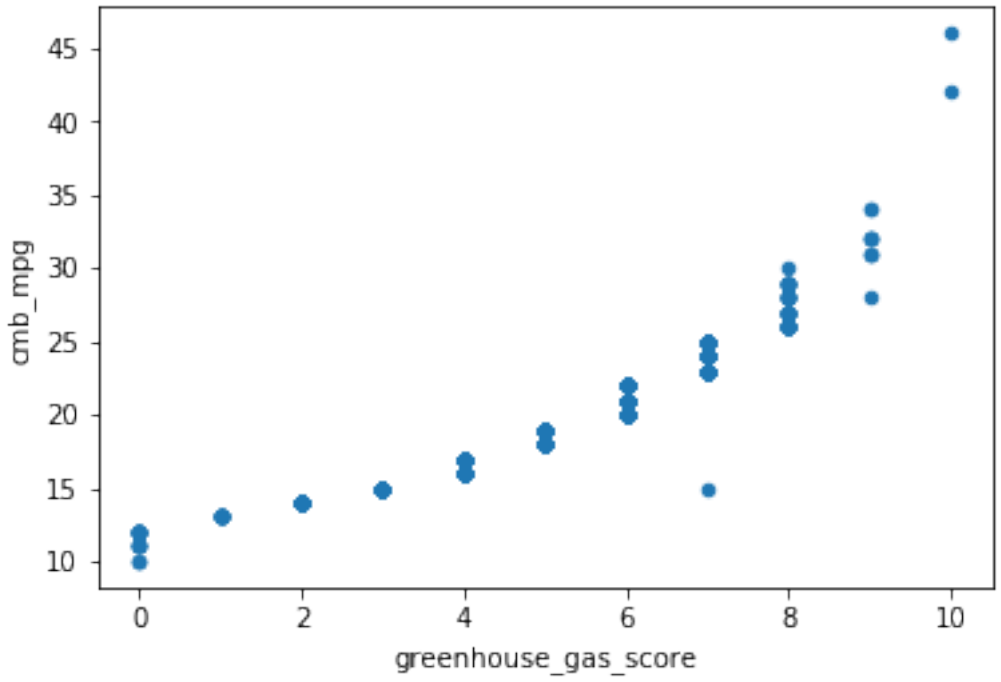
In [15]: df_08.plot(x='displ', y='cmb_mpg', kind='scatter');



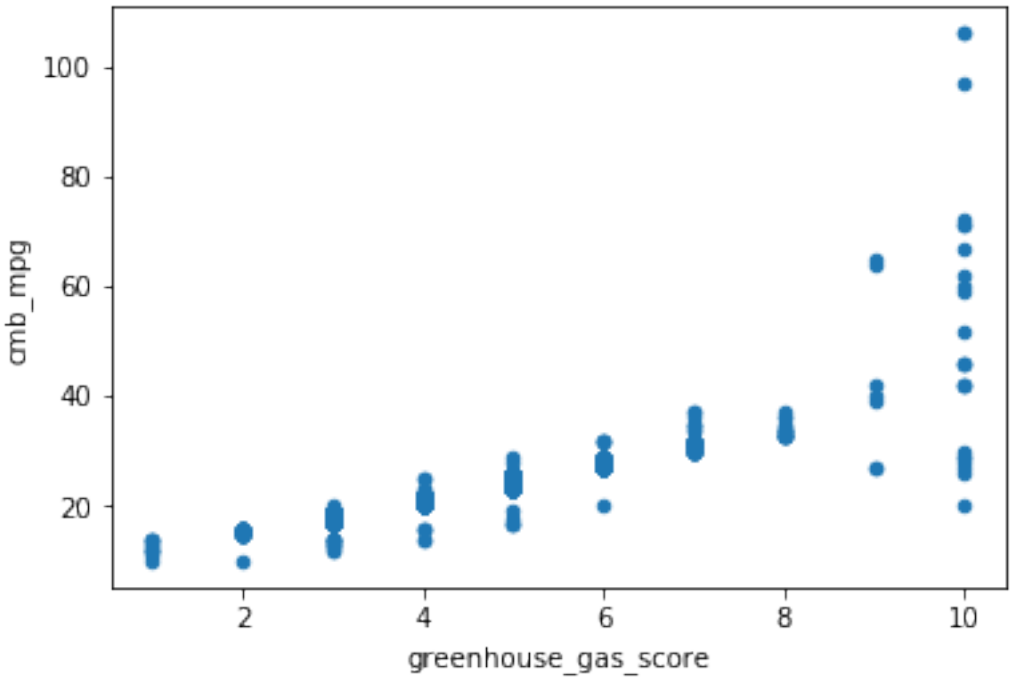
In [18]: df_18.plot(x='displ', y='cmb_mpg', kind='scatter');



In [19]:
```
df_08.plot(x='greenhouse_gas_score', y='cmb_mpg', kind='scatter');
```



In [20]:
```
df_18.plot(x='greenhouse_gas_score', y='cmb_mpg', kind='scatter');
```



In [ ]: