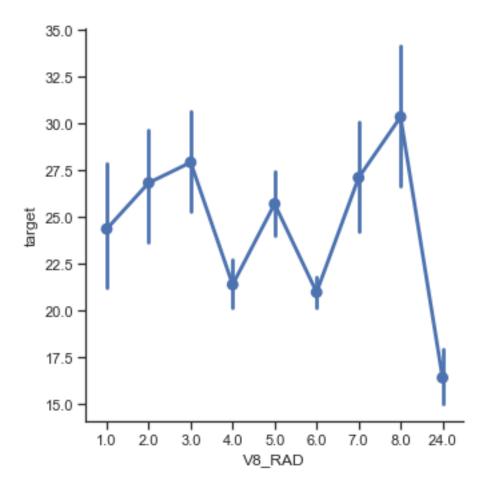
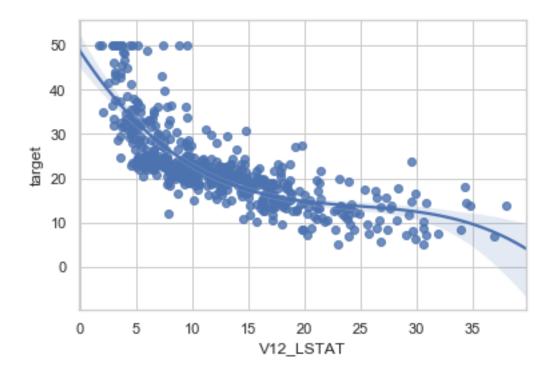
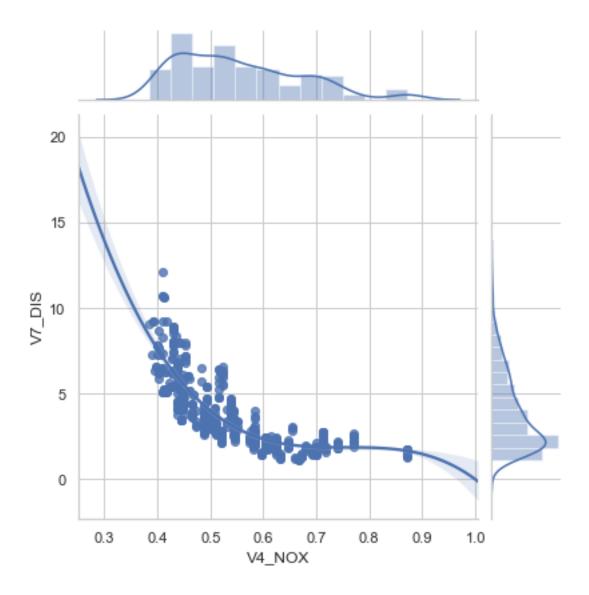
seaborn_dataexploration

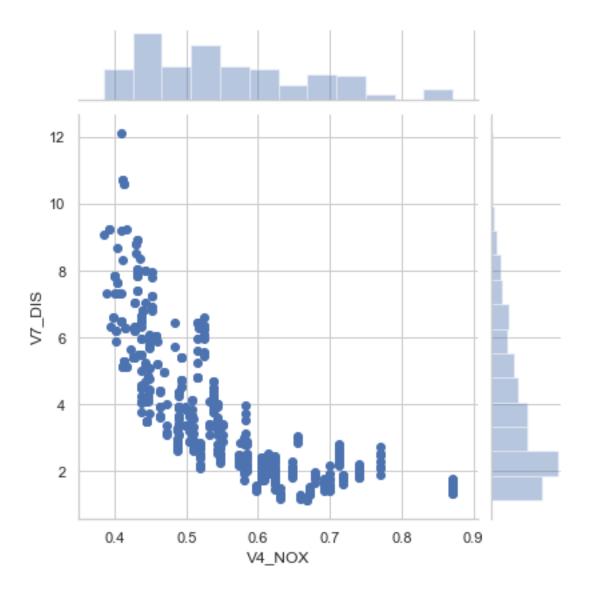
April 19, 2019

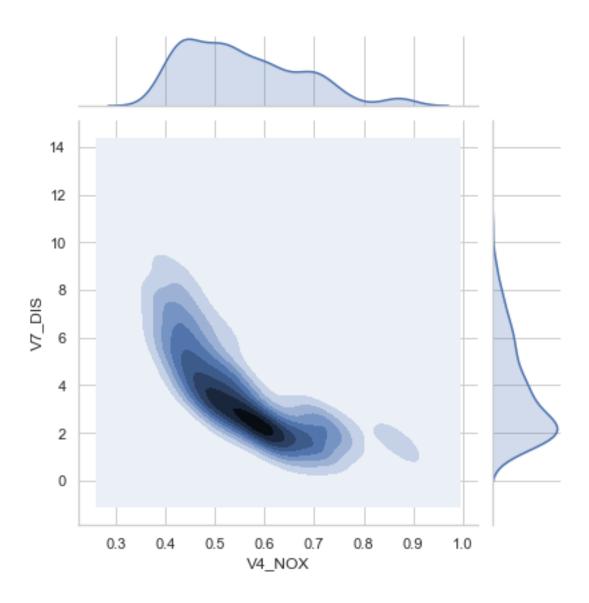
```
In [5]: import seaborn as sns
        import pandas as pd
        import numpy as np
        sns.set()
        from sklearn.datasets import load_iris
        iris = load_iris()
       X_iris, Y_iris = iris.data, iris.target
        features_iris = [a[:-5].replace(" ","_") for a in iris.feature_names]
        target_labels = {j: flower for j, flower in enumerate(iris.target_names)}
        df_iris = pd.DataFrame(X_iris, columns=features_iris)
        df_iris['target'] = [target_labels[y] for y in Y_iris]
        from sklearn.datasets import load_boston
        boston = load_boston()
        X_boston, Y_boston = boston.data, boston.target
       features_boston = np.array(['V'+'_'.join([str(b),a])for a,b in zip(boston.feature_name)
        df_boston = pd.DataFrame(X_boston, columns=features_boston)
        df_boston['target'] = Y_boston
        df_boston['target_level'] = pd.qcut(Y_boston, 3)
In [7]: with sns.axes_style("ticks"):
            sns.factorplot(data=df_boston, x='V8_RAD', y="target")
```



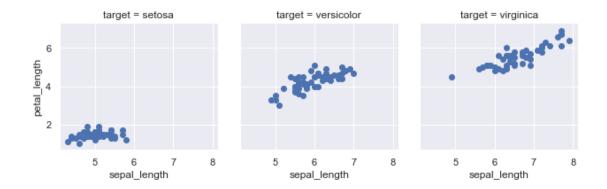




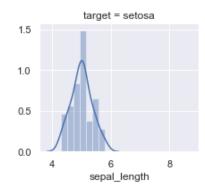


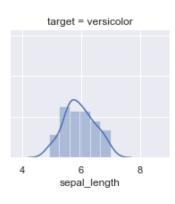


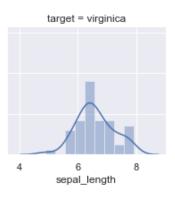
```
In [17]: import matplotlib.pyplot as plt
    with sns.axes_style("darkgrid"):
        chart = sns.FacetGrid(df_iris, col='target')
        chart.map(plt.scatter, 'sepal_length', 'petal_length')
```



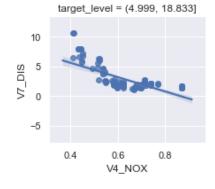
In [18]: import matplotlib.pyplot as plt
 with sns.axes_style("darkgrid"):
 chart = sns.FacetGrid(df_iris, col='target')
 chart.map(sns.distplot, 'sepal_length')

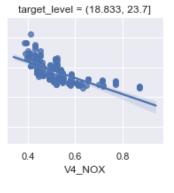


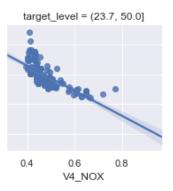


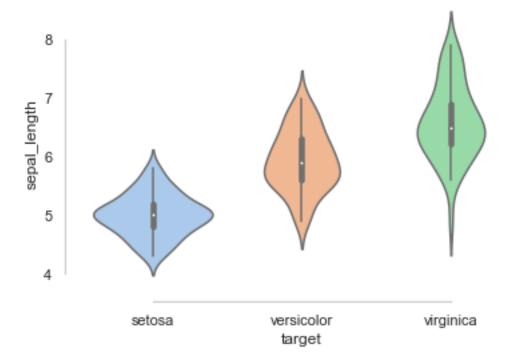


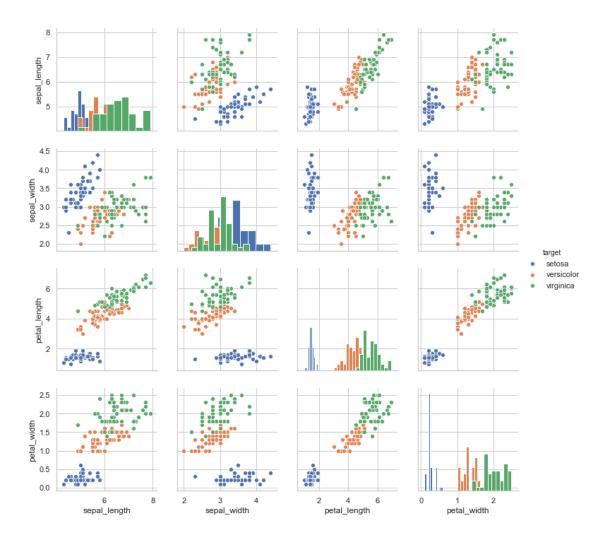
In [19]: import matplotlib.pyplot as plt
 with sns.axes_style("darkgrid"):
 chart = sns.FacetGrid(df_boston, col='target_level')
 chart.map(sns.regplot, 'V4_NOX', 'V7_DIS')











In []: