eda_visuals

October 17, 2017

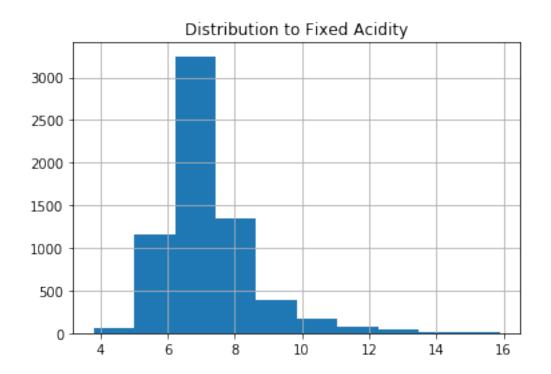
1 EDA with Visuals

Create visualizations to answer the quiz questions below this notebook.

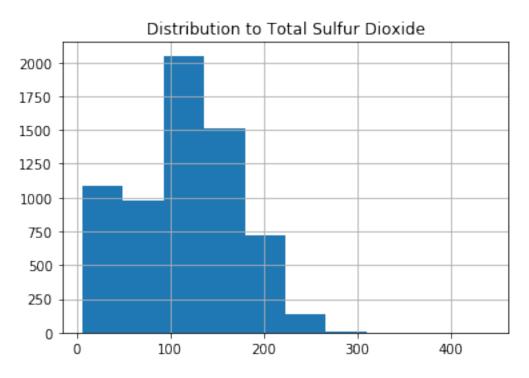
```
In [6]: # Load dataset
        import pandas as pd
        % matplotlib inline
        wines_df = pd.read_csv('winequality_edited.csv')
        wines_df.head()
Out[6]:
           fixed_acidity volatile_acidity citric_acid residual_sugar chlorides \
                                                                    20.7
       0
                     7.0
                                      0.27
                                                   0.36
                                                                              0.045
                     6.3
       1
                                      0.30
                                                   0.34
                                                                     1.6
                                                                              0.049
        2
                     8.1
                                      0.28
                                                   0.40
                                                                     6.9
                                                                              0.050
        3
                     7.2
                                      0.23
                                                   0.32
                                                                     8.5
                                                                              0.058
        4
                     7.2
                                      0.23
                                                   0.32
                                                                     8.5
                                                                              0.058
                                                                  pH sulphates \
           free_sulfur_dioxide total_sulfur_dioxide density
       0
                          45.0
                                               170.0
                                                       1.0010 3.00
                                                                           0.45
                          14.0
                                                       0.9940 3.30
       1
                                               132.0
                                                                           0.49
        2
                          30.0
                                                97.0
                                                       0.9951 3.26
                                                                           0.44
                          47.0
                                               186.0
                                                       0.9956 3.19
        3
                                                                           0.40
        4
                          47.0
                                               186.0
                                                       0.9956 3.19
                                                                           0.40
           alcohol quality color
       0
               8.8
                          6 white
               9.5
        1
                          6 white
        2
              10.1
                          6 white
        3
               9.9
                          6 white
               9.9
                          6 white
```

1.0.1 Histograms for Various Features

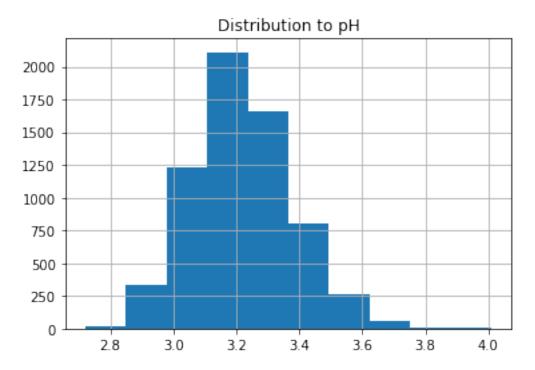
```
In [43]: wines_df['fixed_acidity'].hist().set_title('Distribution to Fixed Acidity');
```



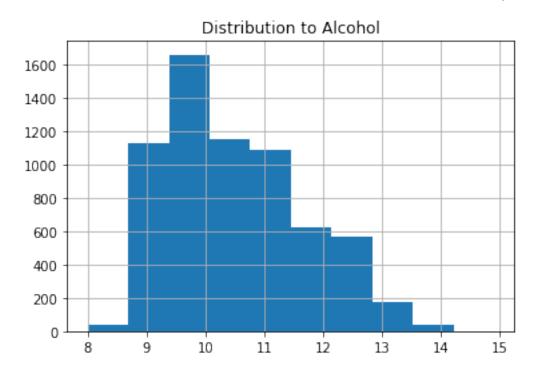
 $In \ [44]: \ wines_df['total_sulfur_dioxide']. hist().set_title('Distribution \ to \ Total \ Sulfur \ Dioxide'). In the context of the cont$



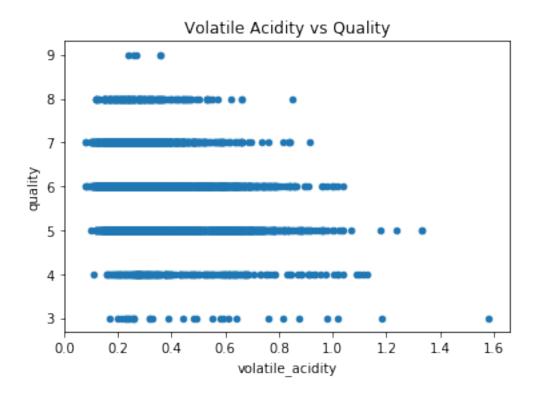
In [45]: wines_df['pH'].hist().set_title('Distribution to pH');

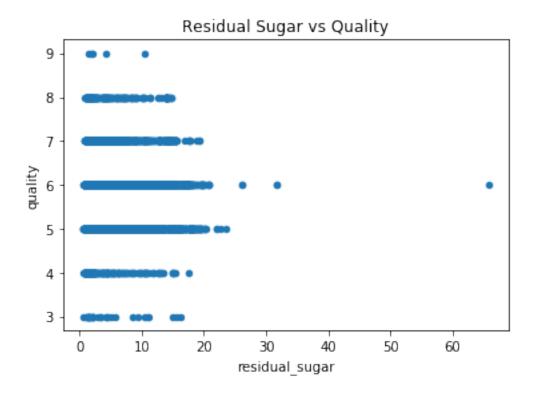


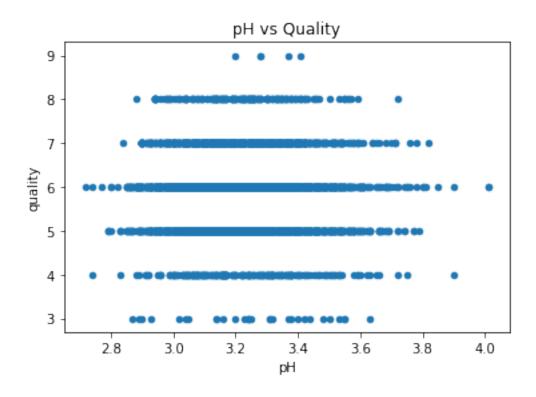
In [46]: wines_df['alcohol'].hist().set_title('Distribution to Alcohol');

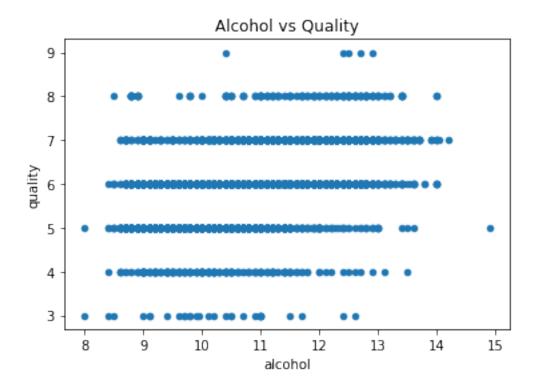


1.0.2 Scatterplots of Quality Against Various Features









In []: