TITLE by YOUR NAME HERE

Univariate Plots Section

```
## [1] 4898
## [1] 12
## 'data.frame':
                   4898 obs. of 12 variables:
## $ fixed.acidity
                        : num 7 6.3 8.1 7.2 7.2 8.1 6.2 7 6.3 8.1 ...
## $ volatile.acidity
                         : num 0.27 0.3 0.28 0.23 0.23 0.28 0.32 0.27 0.3 0.22 ...
## $ citric.acid
                         : num
                               0.36 0.34 0.4 0.32 0.32 0.4 0.16 0.36 0.34 0.43 ...
## $ residual.sugar
                               20.7 1.6 6.9 8.5 8.5 6.9 7 20.7 1.6 1.5 ...
                         : num
## $ chlorides
                               0.045 0.049 0.05 0.058 0.058 0.05 0.045 0.045 0.049 0.044 ...
                         : num
                               45 14 30 47 47 30 30 45 14 28 ...
## $ free.sulfur.dioxide : num
## $ total.sulfur.dioxide: num
                               170 132 97 186 186 97 136 170 132 129 ...
## $ density
                               1.001 0.994 0.995 0.996 0.996 ...
                        : num
## $ pH
                               3 3.3 3.26 3.19 3.19 3.26 3.18 3 3.3 3.22 ...
                         : num
                               0.45 0.49 0.44 0.4 0.4 0.44 0.47 0.45 0.49 0.45 ...
## $ sulphates
                         : num
                         : num 8.8 9.5 10.1 9.9 9.9 10.1 9.6 8.8 9.5 11 ...
## $ alcohol
## $ quality
                         : int 6666666666...
  fixed.acidity
                    volatile.acidity citric.acid
                                                    residual.sugar
## Min. : 3.800
                          :0.0800 Min.
                                          :0.0000
                                                           : 0.600
                   Min.
                                                    Min.
  1st Qu.: 6.300
                    1st Qu.:0.2100
                                   1st Qu.:0.2700
                                                     1st Qu.: 1.700
## Median: 6.800
                   Median :0.2600
                                  Median :0.3200
                                                    Median : 5.200
## Mean : 6.855
                   Mean :0.2782
                                  Mean :0.3342
                                                    Mean : 6.391
##
   3rd Qu.: 7.300
                    3rd Qu.:0.3200
                                    3rd Qu.:0.3900
                                                     3rd Qu.: 9.900
##
  Max.
          :14.200
                          :1.1000
                                           :1.6600
                   Max.
                                    Max.
                                                    Max.
                                                           :65.800
##
     chlorides
                    free.sulfur.dioxide total.sulfur.dioxide
## Min. :0.00900
                   Min. : 2.00
                                        Min. : 9.0
                                        1st Qu.:108.0
## 1st Qu.:0.03600
                    1st Qu.: 23.00
## Median :0.04300
                   Median : 34.00
                                        Median :134.0
                    Mean
                                        Mean
## Mean
          :0.04577
                          : 35.31
                                              :138.4
                     3rd Qu.: 46.00
## 3rd Qu.:0.05000
                                        3rd Qu.:167.0
                          :289.00
          :0.34600
                     Max.
                                        Max.
                                               :440.0
##
   Max.
##
      density
                         рΗ
                                     sulphates
                                                      alcohol
## Min.
          :0.9871
                    Min. :2.720
                                   Min. :0.2200
                                                   Min. : 8.00
                    1st Qu.:3.090
                                   1st Qu.:0.4100
##
  1st Qu.:0.9917
                                                   1st Qu.: 9.50
## Median :0.9937
                    Median :3.180
                                   Median :0.4700
                                                   Median :10.40
## Mean
         :0.9940
                    Mean :3.188
                                   Mean :0.4898
                                                   Mean
                                                         :10.51
  3rd Qu.:0.9961
                    3rd Qu.:3.280
                                   3rd Qu.:0.5500
                                                   3rd Qu.:11.40
## Max.
          :1.0390
                    Max. :3.820
                                   Max. :1.0800
                                                   Max.
                                                          :14.20
##
      quality
##
  \mathtt{Min}.
        :3.000
  1st Qu.:5.000
##
## Median :6.000
## Mean
         :5.878
## 3rd Qu.:6.000
## Max.
          :9.000
```

Univariate Analysis

What is the structure of your dataset?

What is/are the main feature(s) of interest in your dataset?

What other features in the dataset do you think will help support your investigation into your feature(s) of interest?

Did you create any new variables from existing variables in the dataset?

Of the features you investigated, were there any unusual distributions? Did you perform any operations on the data to tidy, adjust, or change the form of the data? If so, why did you do this?

Bivariate Plots Section

Bivariate Analysis

Talk about some of the relationships you observed in this part of the investigation. How did the feature(s) of interest vary with other features in the dataset?

Did you observe any interesting relationships between the other features (not the main feature(s) of interest)?

What was the strongest relationship you found?

Multivariate Plots Section

Multivariate Analysis

Talk about some of the relationships you observed in this part of the investigation. Were there features that strengthened each other in terms of looking at your feature(s) of interest?

Were there any interesting or surprising interactions between features?

OPTIONAL: Did you create any models with your dataset? Discuss the strengths and limitations of your model.

Final Plots and Summary

Plot One		
Description One		
Plot Two		
Description Two		
Plot Three		
Description Three		

Reflection