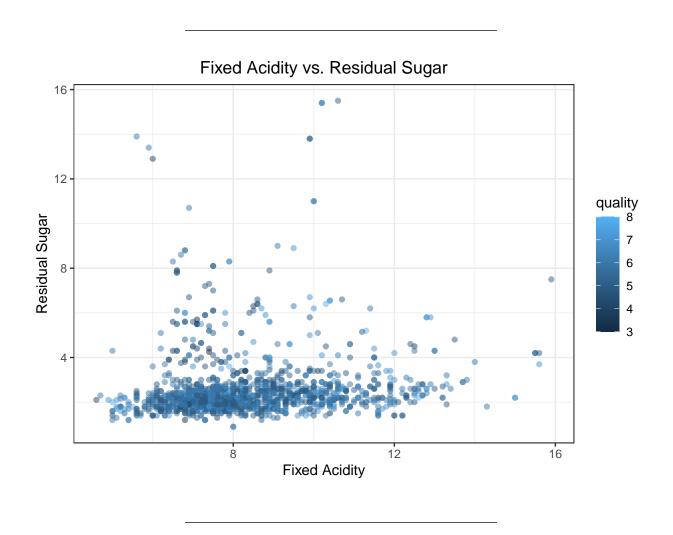
## CM580A3: Plotting Wine Data with ggplot()

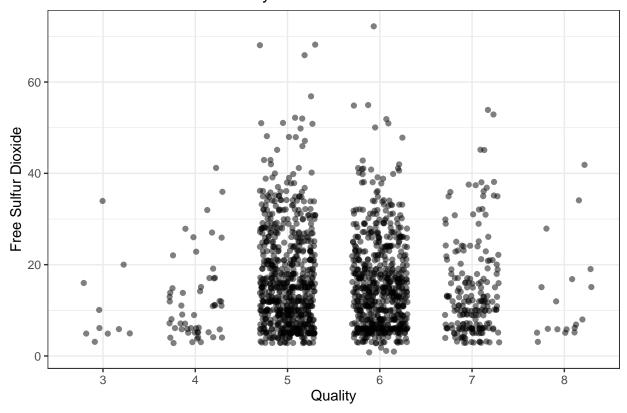
# Plot Two Continuous Variables Against Each Other Using Wine Data



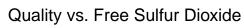
Plot Wine Quality on the X-axis and Any Continuous Variable on the Y-axis

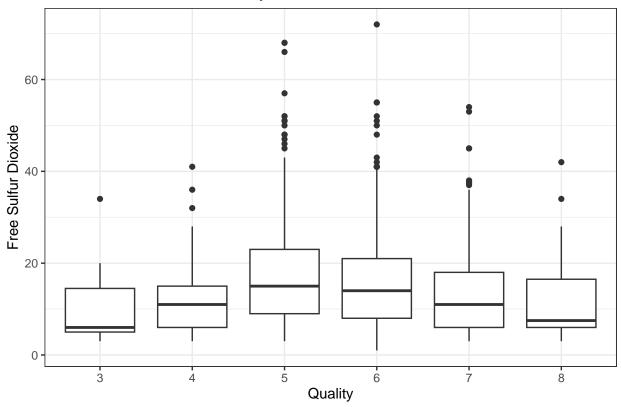
#### As a Scatter Plot

# Quality vs. Free Sulfur Dioxide

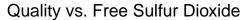


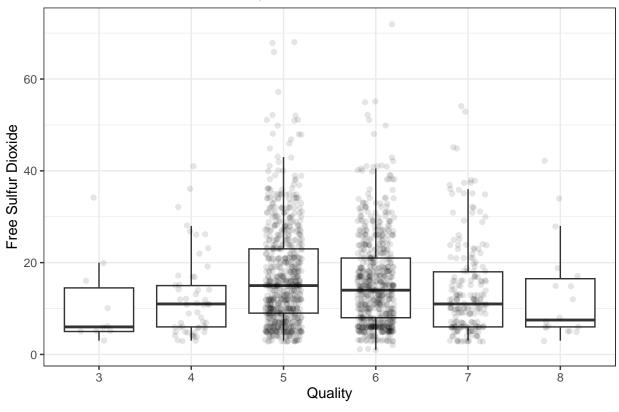
#### As a Boxplot





#### As a Scatterplot and Boxplot





### Appendix

```
theme_bw() +
  theme(plot.title = element_text(hjust = 0.5))
####
#02#
####
wine %>%
 rename(free sulfur dioxide = "free sulfur dioxide") %>%
 ggplot() +
 geom_jitter(aes(x = as.factor(quality), y = free_sulfur_dioxide),
              width = .3, alpha = .5) +
 labs(x = "Quality", y = "Free Sulfur Dioxide",
       title = "Quality vs. Free Sulfur Dioxide") +
 theme_bw() +
 theme(plot.title = element_text(hjust = 0.5))
#03#
####
 rename(free_sulfur_dioxide = "free sulfur dioxide") %>%
 ggplot() +
 geom_boxplot(aes(x = as.factor(quality), y = free_sulfur_dioxide)) +
 labs(x = "Quality", y = "Free Sulfur Dioxide",
       title = "Quality vs. Free Sulfur Dioxide") +
 theme bw() +
 theme(plot.title = element_text(hjust = 0.5))
####
#04#
####
wine %>%
 rename(free_sulfur_dioxide = "free sulfur dioxide") %>%
 ggplot() +
 geom_boxplot(aes(x = as.factor(quality), y = free_sulfur_dioxide),
               outlier.shape = NA) +
  geom_jitter(aes(x = as.factor(quality), y = free_sulfur_dioxide),
              width = .2, alpha = .1) +
 labs(x = "Quality", y = "Free Sulfur Dioxide",
       title = "Quality vs. Free Sulfur Dioxide") +
  theme bw() +
  theme(plot.title = element_text(hjust = 0.5))
```