## STAT 217: $R^2$ and Influential Points (in class 10/21 and 10/23)

```
cereal.fit <- lm(calories~sugar, data = cereal)</pre>
summary(cereal.fit)
Call:
lm(formula = calories ~ sugar, data = cereal)
Residuals:
           1Q Median
  Min
-39.65 -9.47
                0.47 10.47
                             38.05
Coefficients:
            Estimate Std. Error t value Pr(>|t|)
                           3.45
                                  26.00 < 2e-16
(Intercept)
               89.65
sugar
                2.48
                           0.42
                                   5.92 9.2e-08
Residual standard error: 16.2 on 75 degrees of freedom
Multiple R-squared: 0.318, Adjusted R-squared: 0.309
F-statistic: 35 on 1 and 75 DF, p-value: 9.17e-08
```

```
par(mfrow=c(2,2))
plot(cereal.fit)
```







