

w11_async

The residual-fitted plot shows a slight increase in variance in the residuals, but the Q-Q plot confirms normality of the response with a few exceptions. This is confirmed by the residuals-leverage plot which shows a few high leverage points.

```
# summary(crime2)

crimes.82 = crime2[crime2$year==82,]
ols.fit1 = lm(crmrte ~ unem, data = crimes.82)
summary(ols.fit1)

##
## Call:
## lm(formula = crmrte ~ unem, data = crimes.82)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -37.693 -17.292  -3.671  16.994  72.854
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   84.569     10.904   7.756 9.07e-10 ***
## unem           1.307       1.027   1.272   0.21
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 23.74 on 44 degrees of freedom
## Multiple R-squared:  0.03549,    Adjusted R-squared:  0.01357
## F-statistic: 1.619 on 1 and 44 DF,  p-value: 0.2099

plot(ols.fit1)
```



