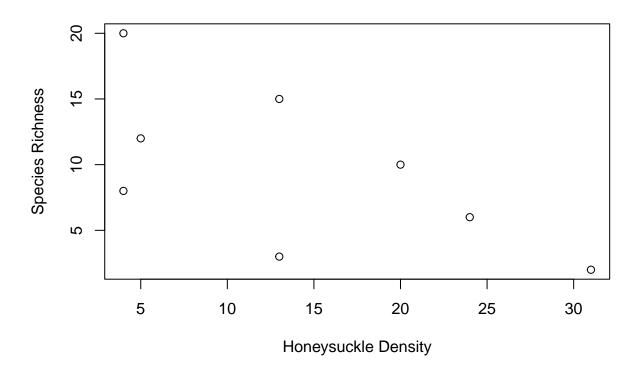
```
dat <- read.csv("data.csv")</pre>
dat
##
     density richness
## 1
           24
           5
## 2
                     12
## 3
           13
                      3
## 4
           31
                      2
## 5
           20
                     10
                      8
## 6
            4
## 7
           13
                     15
                     20
## 8
            4
```

| Honeysuckle Density | Species Richness |
|---------------------|------------------|
| 24 | 6 |
| 5 | 12 |
| 13 | 3 |
| 31 | 2 |
| 20 | 10 |
| 4 | 8 |
| 13 | 15 |
| 4 | 20 |

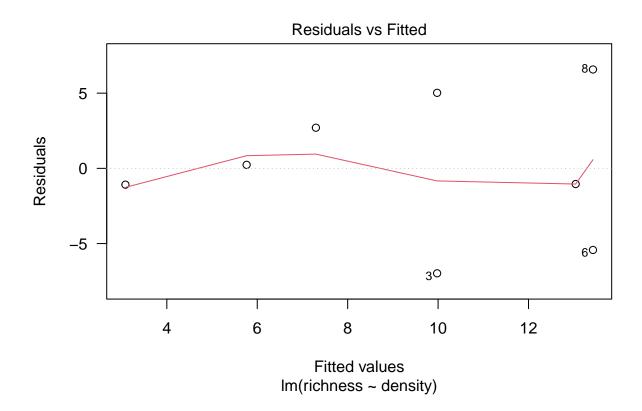
Analyze the data set. Do a linear regression of Species Richness on Honeysuckle Density.

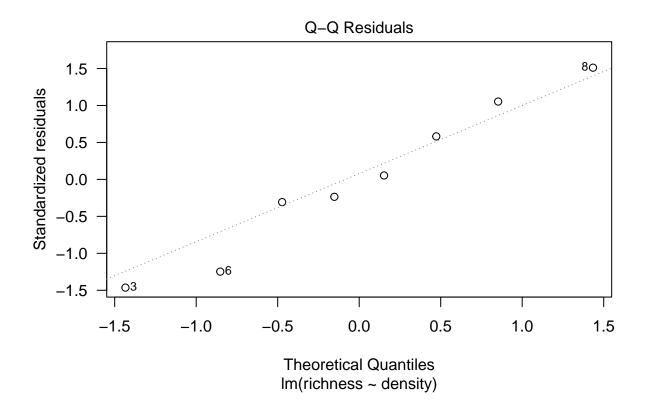
```
library(graphics)
dat$richness ~ dat$density
## dat$richness ~ dat$density
regression <- lm(richness ~ density, data = dat)
anova(regression)
## Analysis of Variance Table
##
## Response: richness
            Df Sum Sq Mean Sq F value Pr(>F)
             1 103.8 103.804 3.9874 0.09283 .
## density
## Residuals 6 156.2 26.033
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
summary(regression)
##
## Call:
## lm(formula = richness ~ density, data = dat)
## Residuals:
##
               1Q Median
                               ЗQ
                                      Max
## -6.9788 -2.1696 -0.4042 3.2822 6.5739
##
## Coefficients:
##
              Estimate Std. Error t value Pr(>|t|)
```

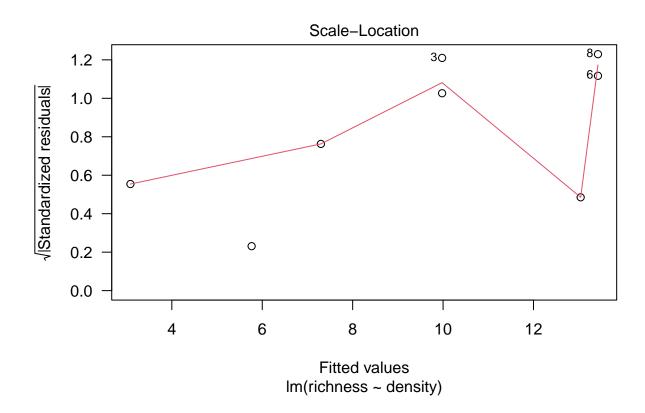
```
## (Intercept) 14.9583
                           3.2750
                                  4.567 0.00382 **
## density
               -0.3830
                           0.1918 -1.997 0.09283 .
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 5.102 on 6 degrees of freedom
## Multiple R-squared: 0.3992, Adjusted R-squared: 0.2991
## F-statistic: 3.987 on 1 and 6 DF, p-value: 0.09283
plot(
 richness ~ density,
 data = dat,
 xlab = "Honeysuckle Density",
 ylab = "Species Richness"
```

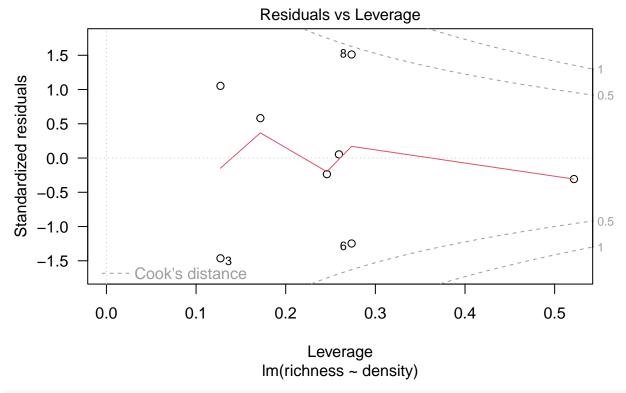


```
plot(regression, las = 1)
```









plot(dat\$richness ~ dat\$density, las = 1)

