```r
l <- lm(stretch ~ treat, data = rubberbands)
summery(l)
```

```
Call:
  lm(formula = stretch ~ treat, data = rubberbands)

Residuals:
  Min     1Q Median     3Q    Max
-27.09  -4.50   0.50    7.91   15.50

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
  (Intercept) 244.09      3.29   74.17   <2e-16
  treatH      9.41       4.77    1.97    0.063

Residual standard error: 10.9 on 19 degrees of freedom
Multiple R-squared:  0.17, Adjusted R-squared:  0.126
F-statistic: 3.89 on 1 and 19 DF,  p-value: 0.0632
```

1. Establishing causal relationships

2. Randomized comparative experiments

3. factors, treatments

4. controls, placebos, blinding

```r
favstats(stretch ~ treat, data = rubberbands)
```

```
 .group  min    Q1 median   Q3  max mean    sd  n missing
1   A  217 239.5 246 253.0 257 244.1 11.734 11     0
2   H  239 249.2 253 258.2 269 253.5  9.925 10     0
```

```r
t.test(stretch ~ treat, data = rubberbands)
```

```
Welch Two Sample t-test

data:  stretch by treat
t = -1.99, df = 18.92, p-value = 0.0613
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
  -19.3109   0.4927
sample estimates:
mean in group A mean in group H
     244.1     253.5
```