

Introducing R

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Plan for today

1. example
2. content
3. another example

An Equation

$$y = mx + b$$

$$\alpha + \beta$$

Some code

```
summary(lm(Sepal.Length ~ Species, data = iris))

##
## Call:
## lm(formula = Sepal.Length ~ Species, data = iris)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.6880 -0.3285 -0.0060  0.3120  1.3120
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)      5.0060     0.0728  68.762 < 2e-16 ***
## Speciesversicolor  0.9300     0.1030   9.033 8.77e-16 ***
## Speciesvirginica   1.5820     0.1030  15.366 < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.5148 on 147 degrees of freedom
## Multiple R-squared:  0.6187,    Adjusted R-squared:  0.6135
## F-statistic: 119.3 on 2 and 147 DF,  p-value: < 2.2e-16
```

Viewing a data.frame

| ## | Sepal.Length | Sepal.Width | Petal.Length | Petal.Width | Species |
|------|--------------|-------------|--------------|-------------|---------|
| ## 1 | 5.1 | 3.5 | 1.4 | 0.2 | setosa |
| ## 2 | 4.9 | 3.0 | 1.4 | 0.2 | setosa |
| ## 3 | 4.7 | 3.2 | 1.3 | 0.2 | setosa |
| ## 4 | 4.6 | 3.1 | 1.5 | 0.2 | setosa |
| ## 5 | 5.0 | 3.6 | 1.4 | 0.2 | setosa |
| ## 6 | 5.4 | 3.9 | 1.7 | 0.4 | setosa |