

# Lab 1

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$$\beta_1 = \frac{\sum_{i=1}^n (x_i - \bar{x})(y_i - \bar{y})}{\sum_{i=1}^n (x_i - \bar{x})^2}$$

## Shortcuts:

- Create new chunk: Cmd + Option + i
1. Basics Addition: + Subtraction: - Multiplication: \* Division: / Exponentiation: ^ Modulo: %% returns the remainder of the division <- assignment Data types: numerics, integers, logical, characters class()
  2. Vectors c() names() sum() vector selection [] sequence operator : mean() Logical operators: <, >, <=, >=, ==, != Matrices matrix() rownames() colnames() rowSums(), colSums() cbind() rbind()