A Gentle Introduction to R EXTRAS

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Matrix math

- R can do matrix math which are uses in many statistical procedures
 - ▶ But the *syntax* is different from the usual math operators
- Using a regular multiplication symbol (*) results in *element*-wise multiplication
 - ▶ each *element* (item) in matrix1 is multiplied by the corresponding *element* in matrix2, etc.

$$c(1, 2, 3) * c(3, 2, 1)$$

• Matrix multiplication is specified by this operator: %*%