A demo document in LaTeX

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October 23, 2013

We will see two equations here. Equation 1 gives the formula for a line of best fit for a linear regression. Equation 2 gives the formula for the mean of a sample. It is not the same as Equation 1.

This is an equation: $\hat{Y} = \beta_0 + \beta_1 X$.

$$\hat{Y} = \beta_0 + \beta_1 X \tag{1}$$

$$\bar{X} = \frac{1}{N} \sum_{i=1}^{N} X_i \tag{2}$$

Note how the equation numbering is handled automatically for you.