

# Simple Linear Regression

## *Gradient descent step*

The size of the step that gradient descent takes is called the *learning rate*. Finding an adequate value for the *learning rate* is key to achieve convergence. If this value is too large the algorithm will never reach the optimum, but if it is too small it will take too much time to achieve the desired value.

## Gradient Descent in Regression

Gradient Descent is an iterative algorithm used to tune the parameters in regression models for minimum loss.

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