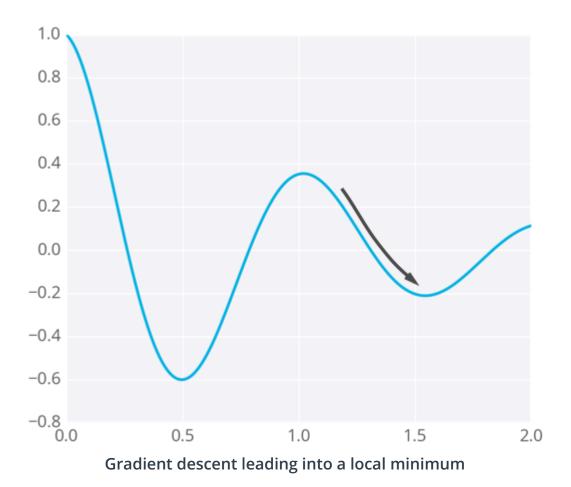


Gradient descent steps to the lowest error

Caveats

Since the weights will just go wherever the gradient takes them, they can end up where the error is low, but not the lowest. These spots are called local minima. If the weights are initialized with the wrong values, gradient descent could lead the weights into a local minimum, illustrated below.



There are methods to avoid this such as using momentum