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# Basics of Neural Network Programming

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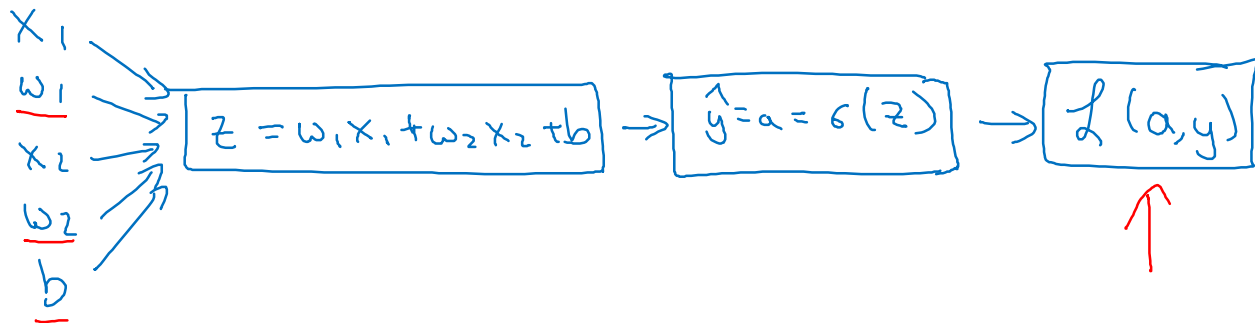
Logistic Regression  
Gradient descent

# Logistic regression recap

$$\rightarrow z = w^T x + b$$

$$\rightarrow \hat{y} = a = \sigma(\underline{z})$$

$$\rightarrow \mathcal{L}(a, y) = -(y \log(a) + (1 - y) \log(1 - a))$$



# Logistic regression derivatives

