



deeplearning.ai

# Deep Neural Networks

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## Parameters vs Hyperparameters

# What are hyperparameters?

Parameters:  $W^{[1]}, b^{[1]}, W^{[2]}, b^{[2]}, W^{[3]}, b^{[3]} \dots$

Hyperparameters:  $\alpha$ ,  $\tau$ , #iterations, #hidden layers  $L$ , #hidden units  $n^{[1]}, n^{[2]}, \dots$ , choice of activation function

Later: Momentum, mini-batch size, regularizations, ...

# Applied deep learning is a very empirical process

