



deeplearning.ai

Deep Neural Networks

Parameters vs Hyperparameters

What are hyperparameters?

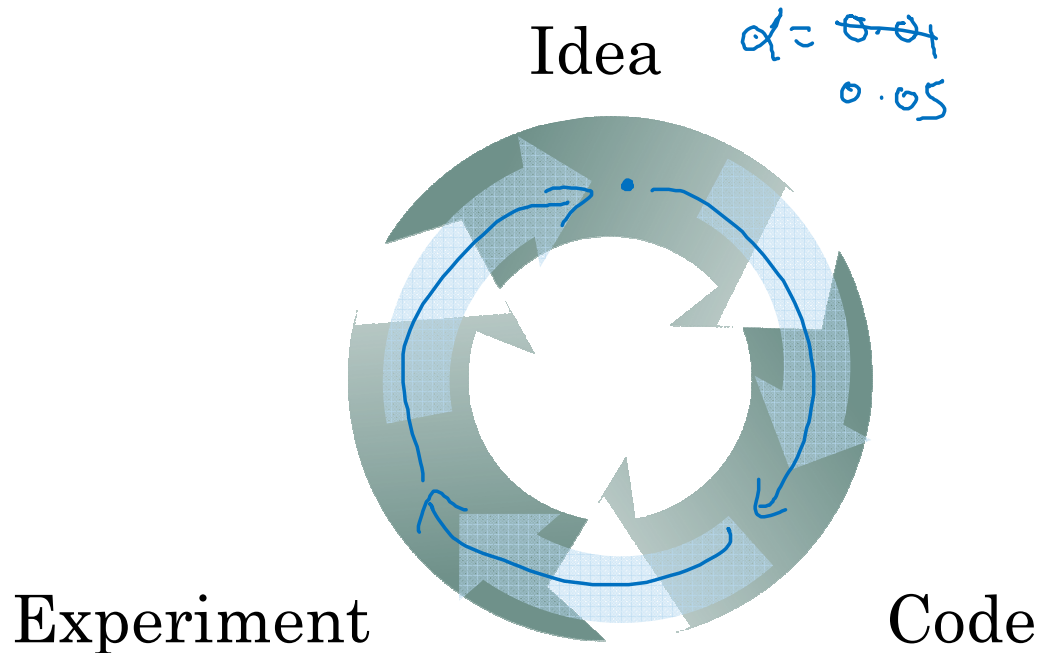
Parameters: $W^{[1]}, b^{[1]}, W^{[2]}, b^{[2]}, W^{[3]}, b^{[3]} \dots$



Hyperparameters: α
learning rate $\frac{1}{\tau}$
#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



Vision, Speech, NLP, Ad, Search, Recommendation.

