



deeplearning.ai

Deep Neural Networks

Parameters vs Hyperparameters

What are hyperparameters?

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

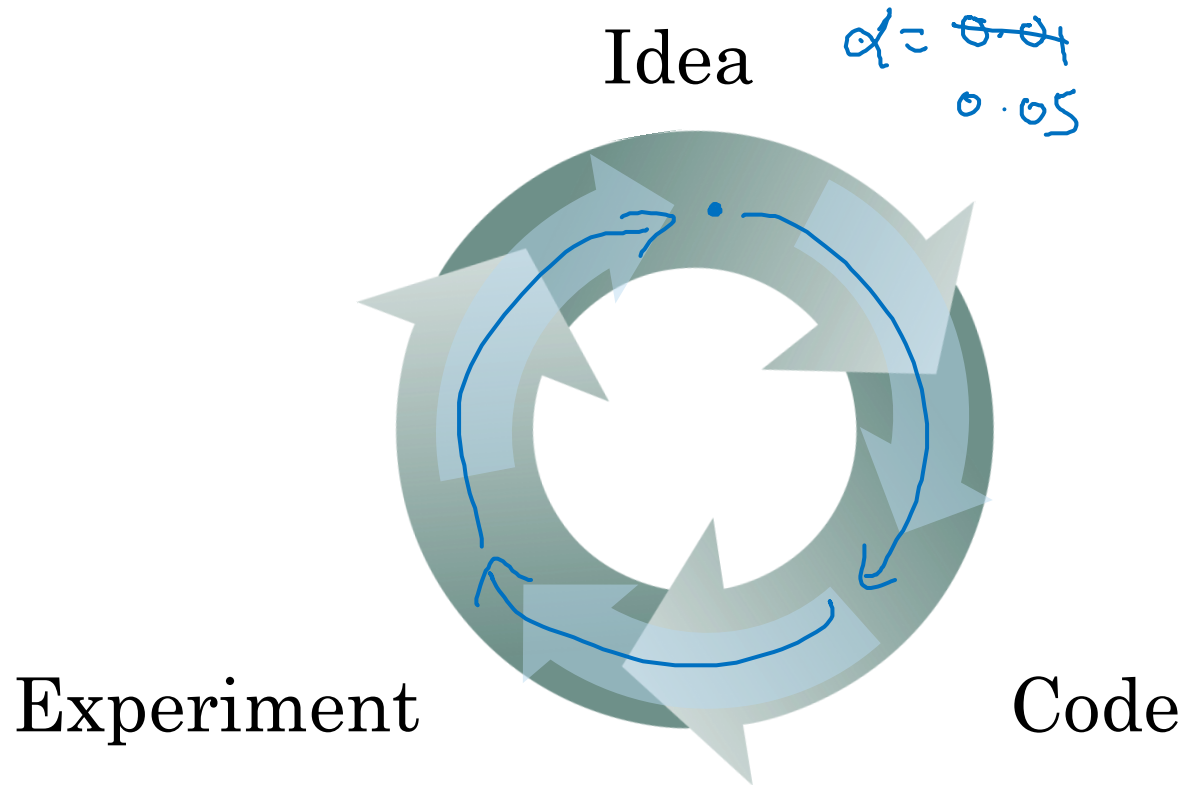


Hyperparameters:

- learning rate α
- τ
- #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.

