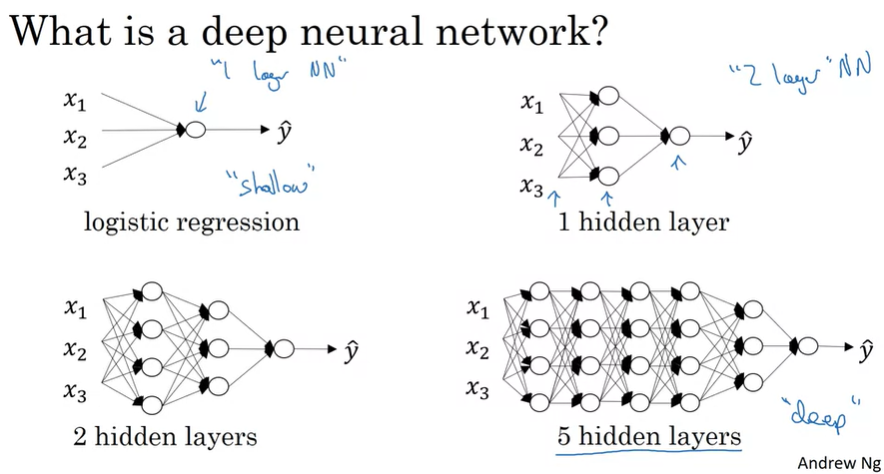
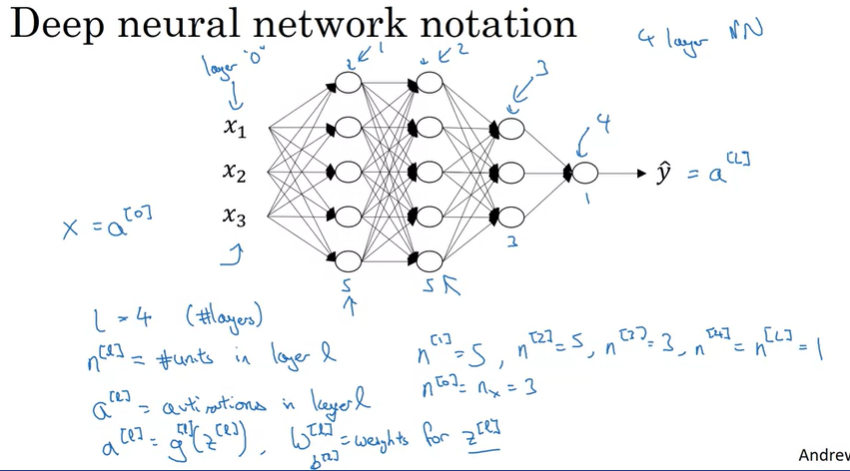
Deep Neural networks  
Author: Anish Mahapatra

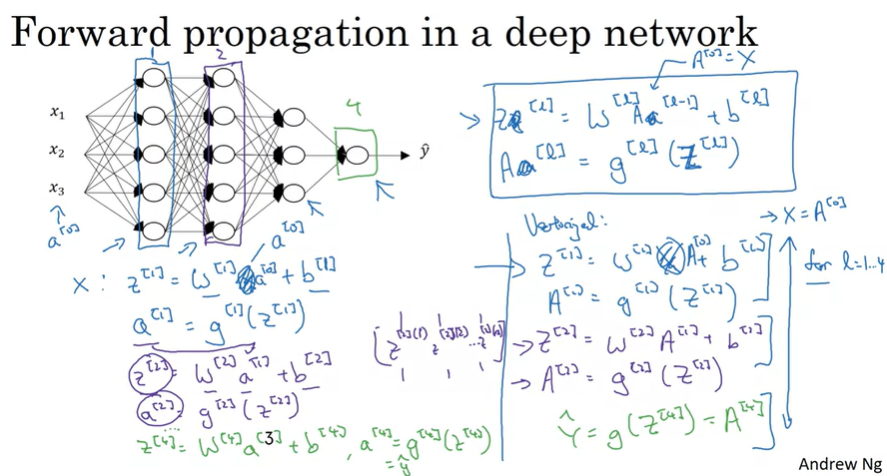
What is a deep neural network?

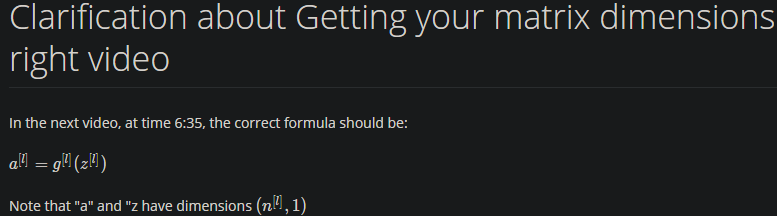
Deep L-Layer Neural network

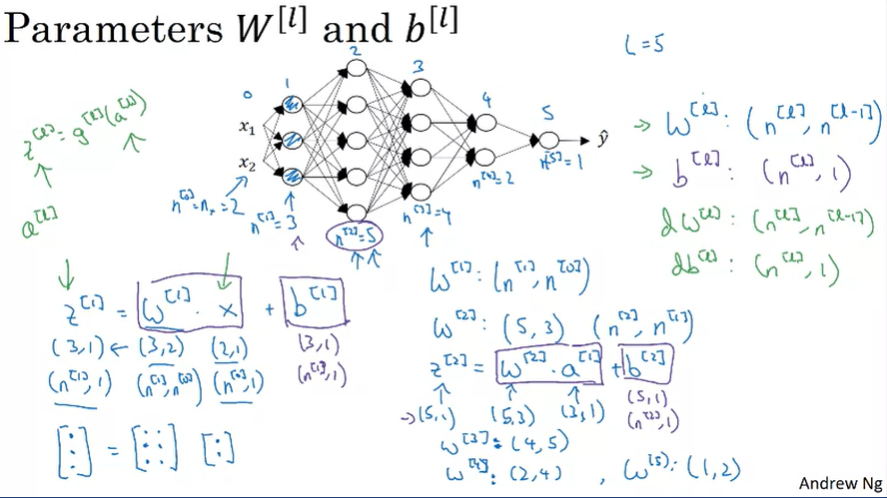


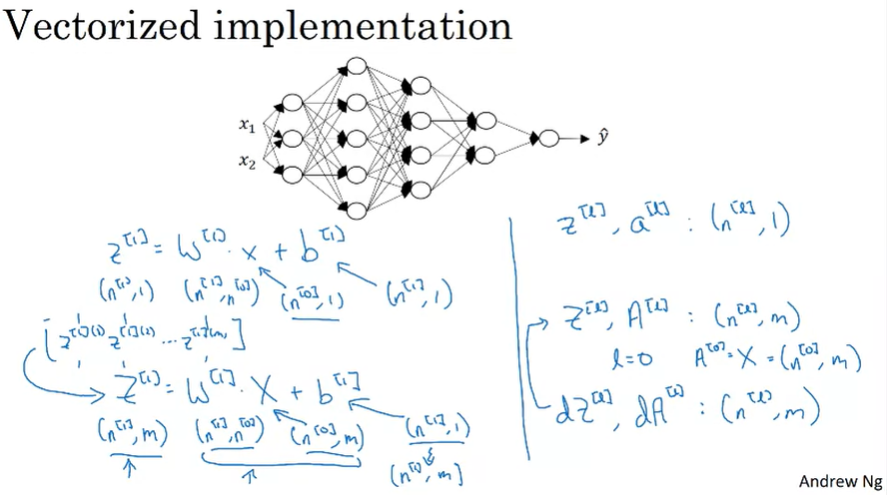


Here, L = 4, indicating the number of layers.

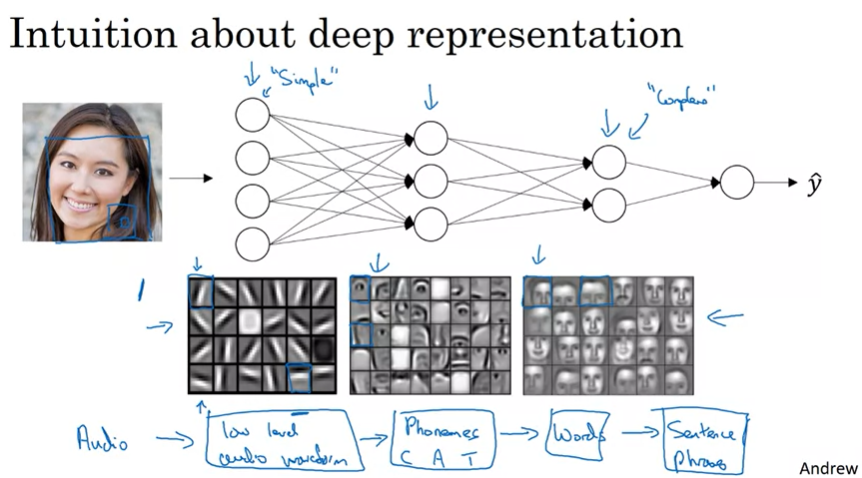


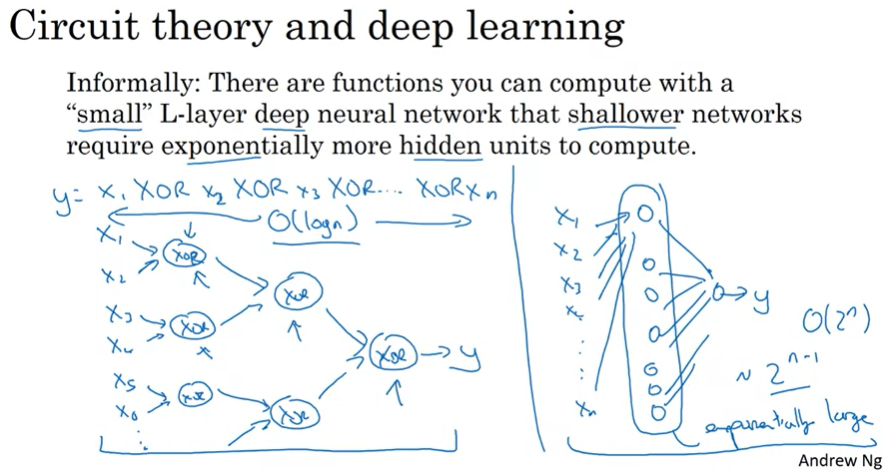




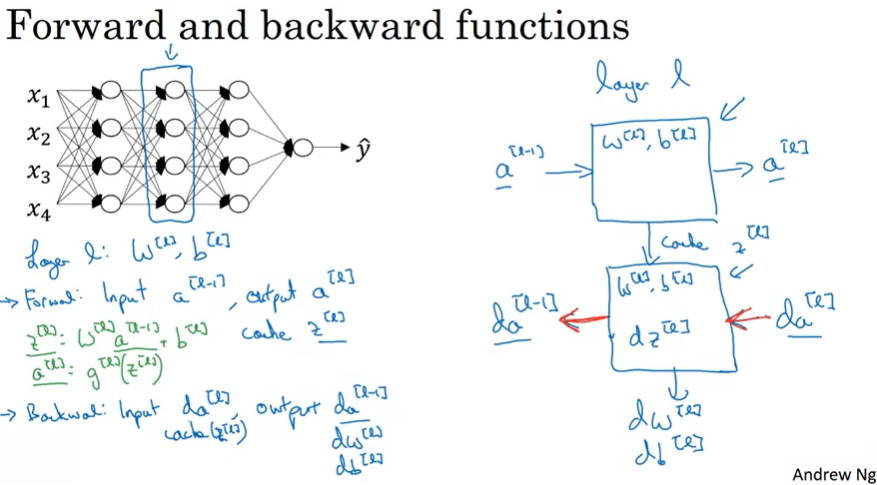


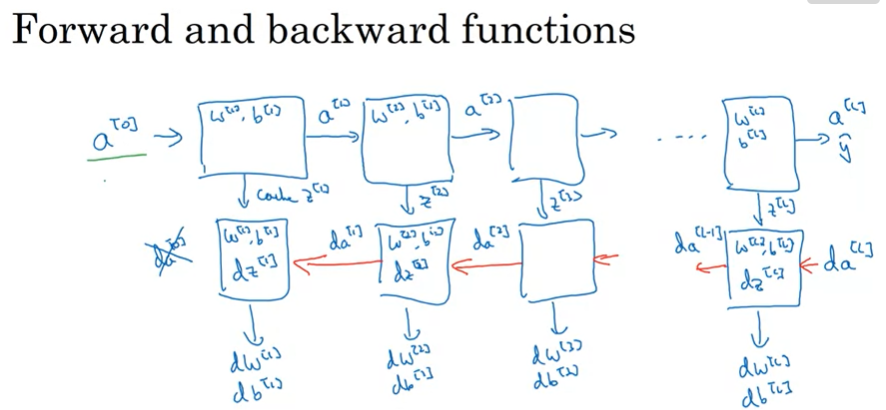
Why are deep neural networks better than shallow neural networks?





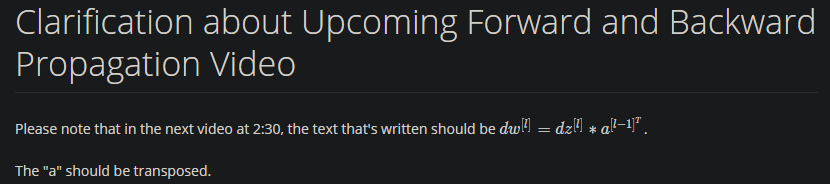
Building blocks of deep neural networks

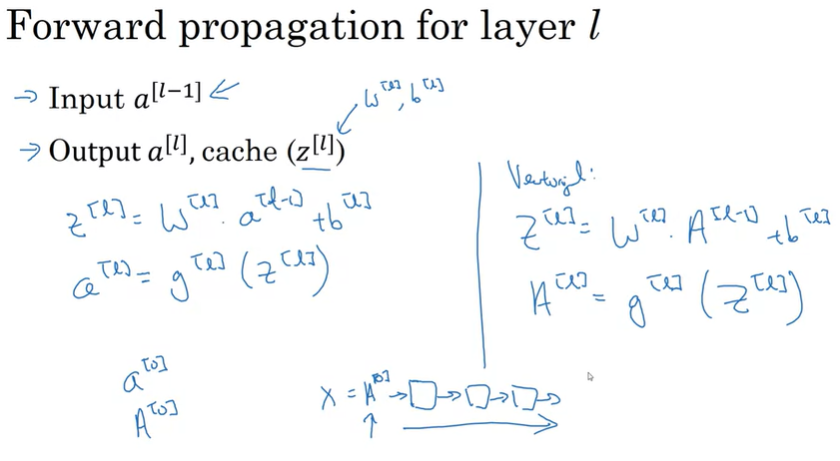




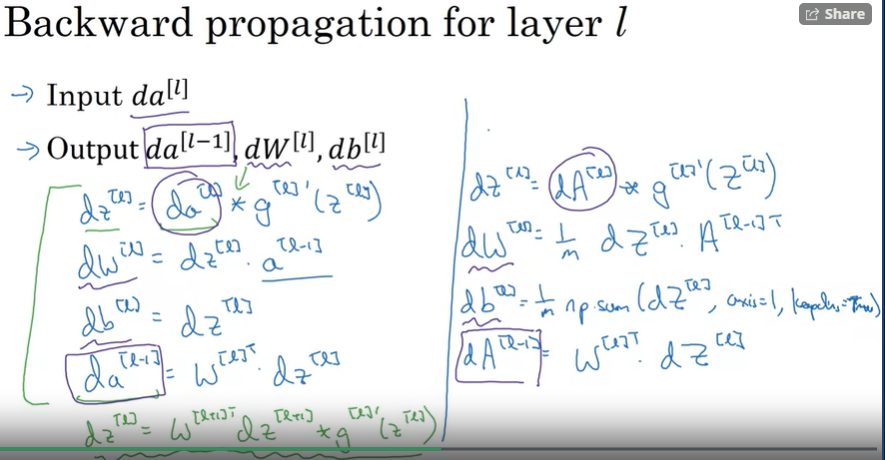


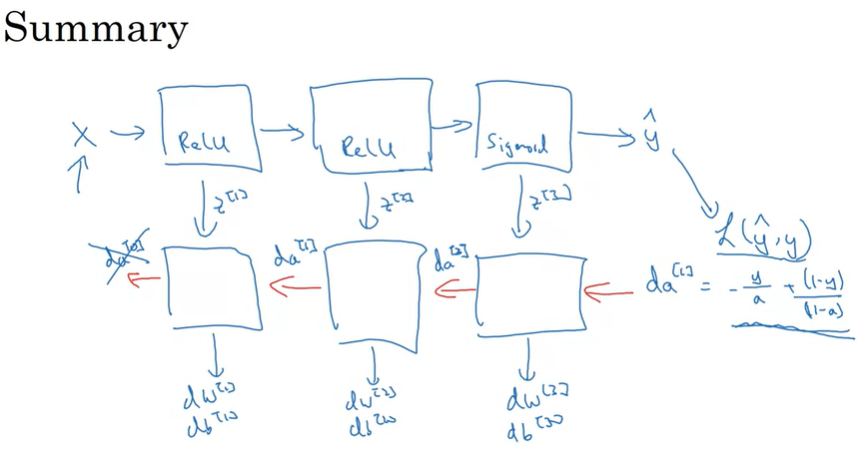
Forward and backward propogation



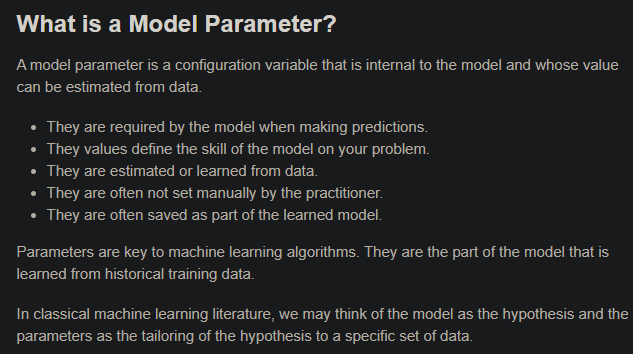


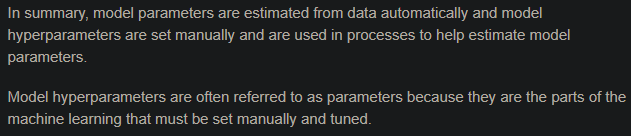






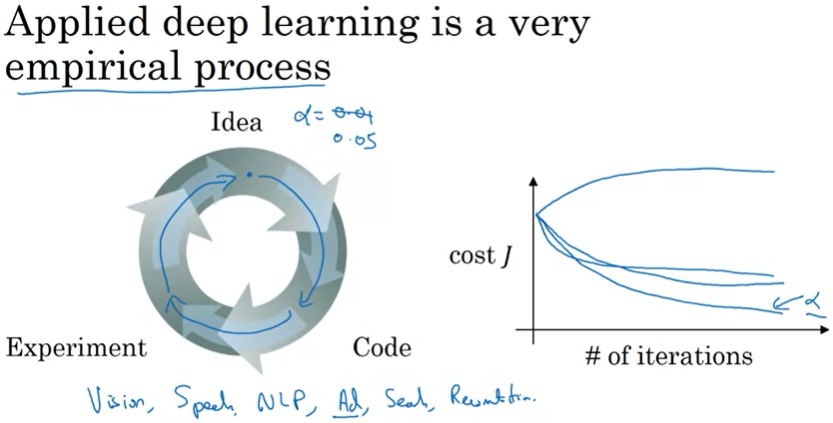
Understanding parameters and hyperparameters & how to organize them



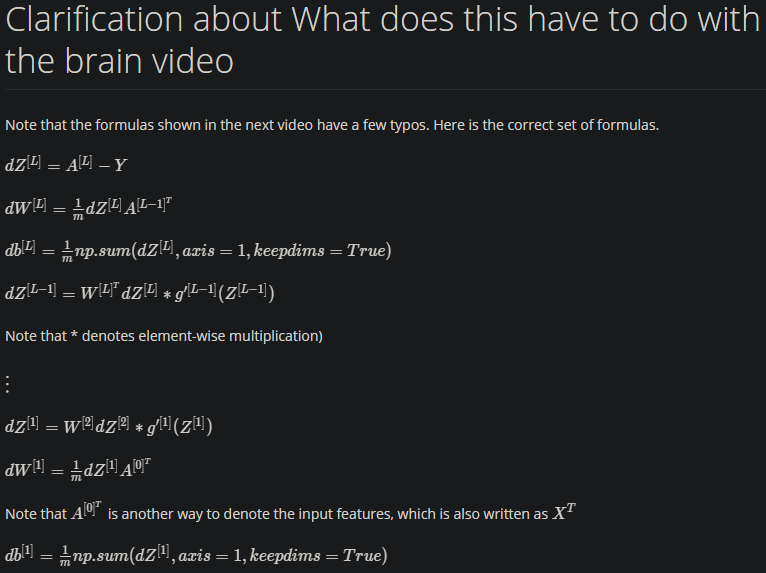




Deep learning is trial and error (empirical value)



What does deep learning have to do with the brain?



Not a whole lot