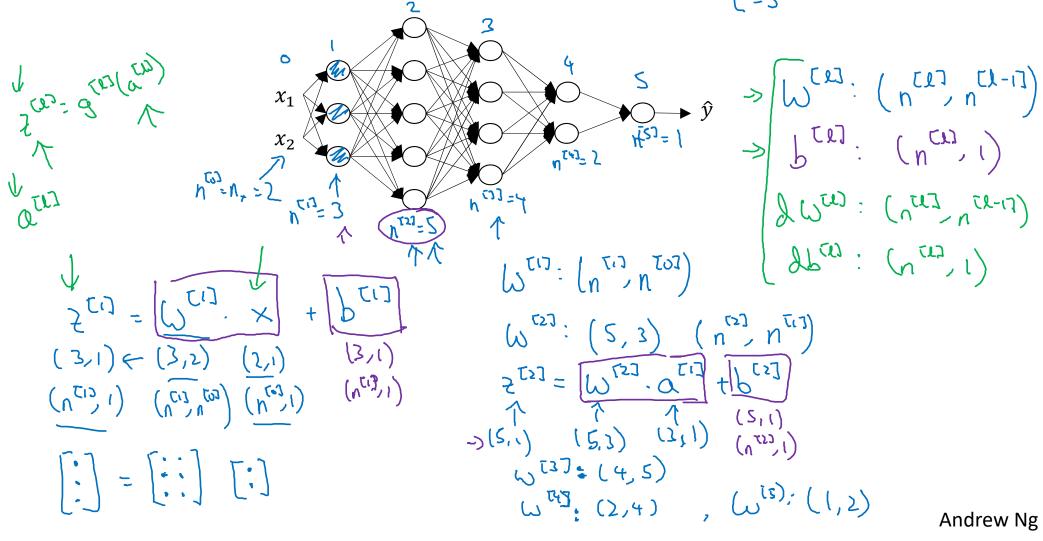


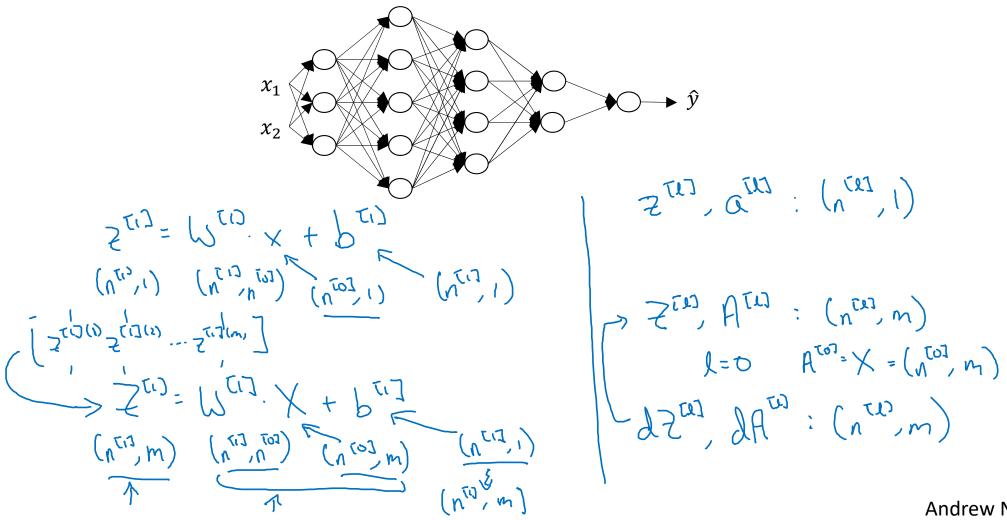
Deep Neural Networks

Getting your matrix dimensions right

Parameters $W^{[l]}$ and $b^{[l]}$



Vectorized implementation

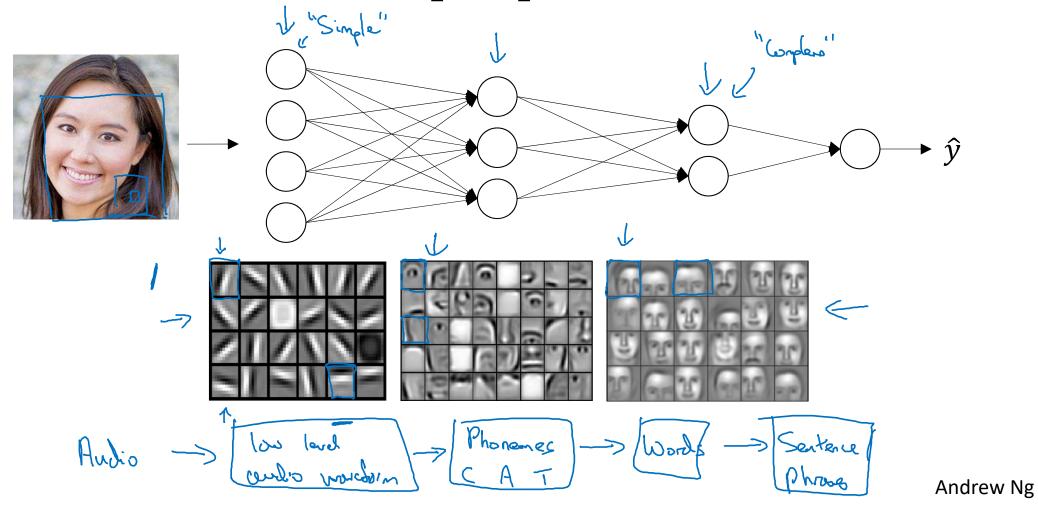




Deep Neural Networks

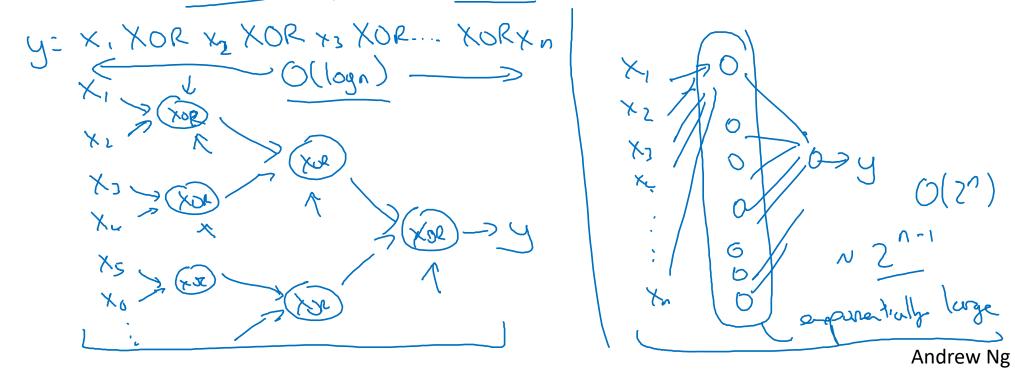
Why deep representations?

Intuition about deep representation



Circuit theory and deep learning

Informally: There are functions you can compute with a "small" L-layer deep neural network that shallower networks require exponentially more hidden units to compute.

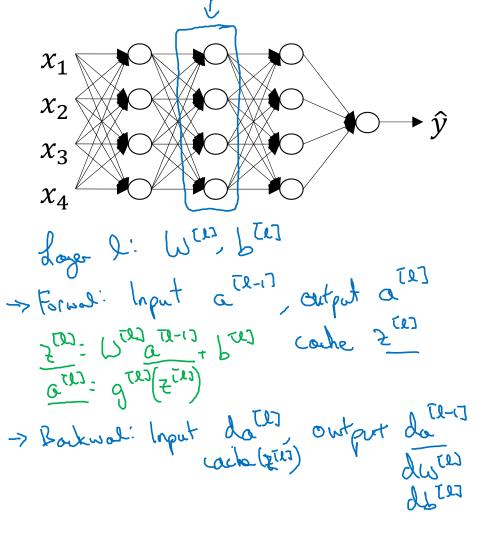


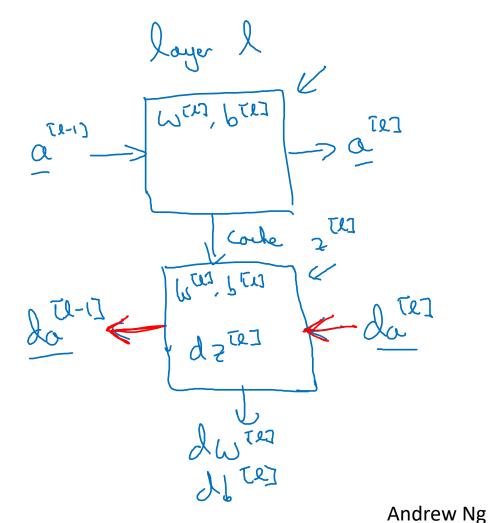


Deep Neural Networks

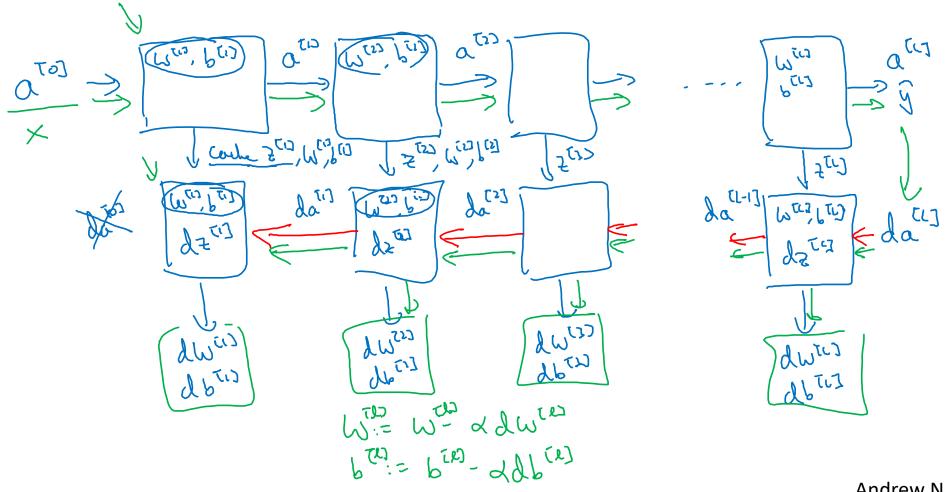
Building blocks of deep neural networks

Forward and backward functions





Forward and backward functions

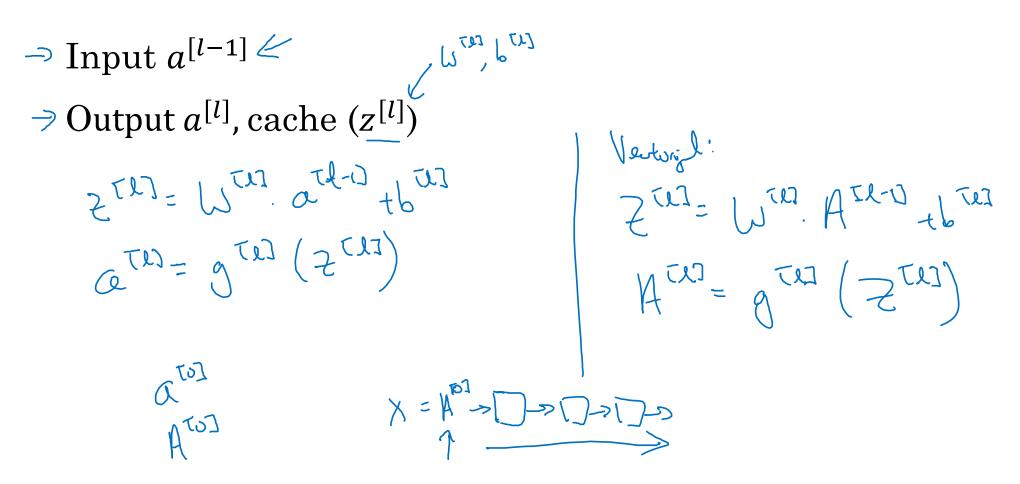




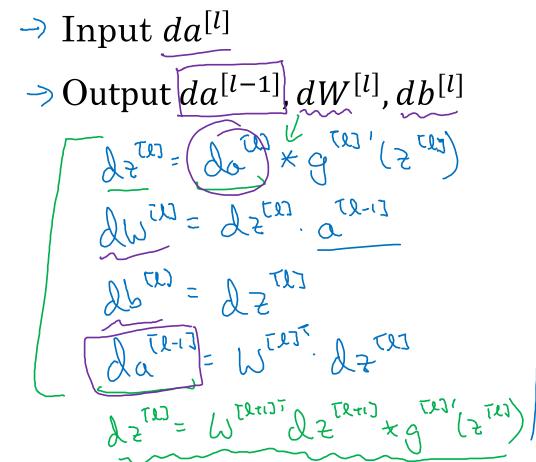
Deep Neural Networks

Forward and backward propagation

Forward propagation for layer l



Backward propagation for layer l



Summary

