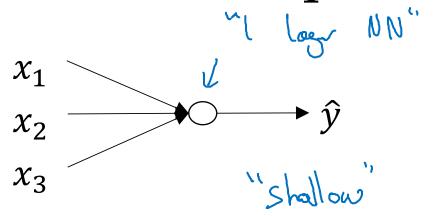


deeplearning.ai

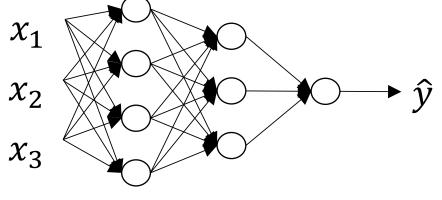
## Deep Neural Networks

Deep L-layer Neural network

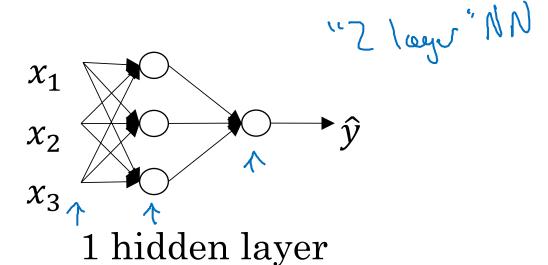
## What is a deep neural network?

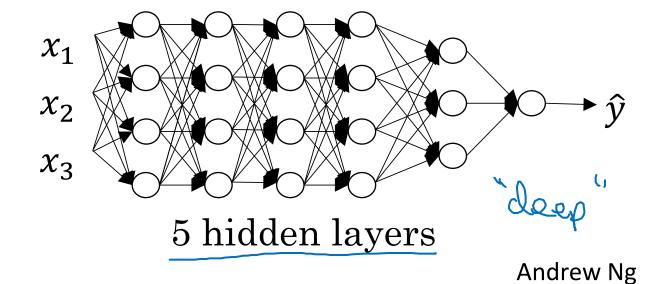


logistic regression



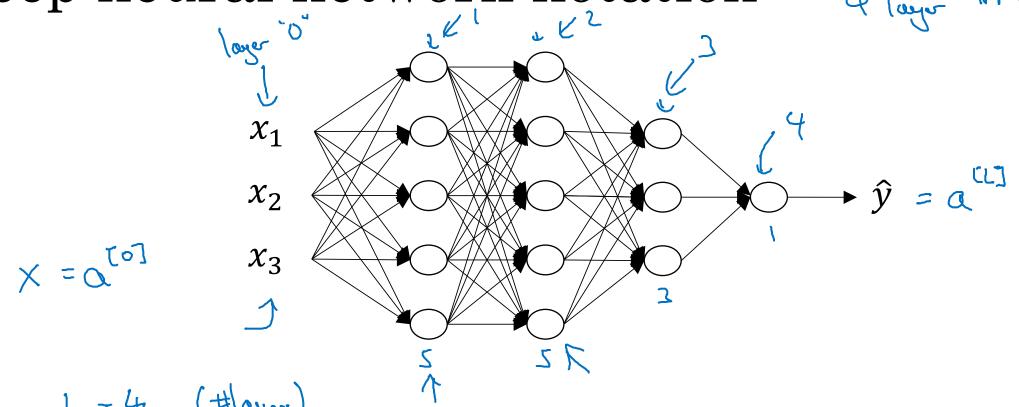
2 hidden layers





## Deep neural network notation

4 layer NN



$$\alpha^{\text{[e]}} = \text{autinotions} \text{ in leyerl}$$

$$\alpha^{\text{[e]}} = \text{guitinotions} \text{ in leyerl}$$

$$\alpha^{\text{[e]}} = \text{guitinotions} \text{ in leyerl}$$

$$\alpha^{\text{[e]}} = \text{guitinotions} \text{ in leyerl}$$

$$\delta^{\text{[e]}} = \text{guitinotions} \text{ in leyerl}$$

$$N_{c_{1}} = 2$$
,  $N_{c_{2}} = 3$ ,  $N_{c_{2}} = 3$ ,  $N_{c_{2}} = 3$ ,  $N_{c_{1}} = N_{c_{1}} = 1$ 

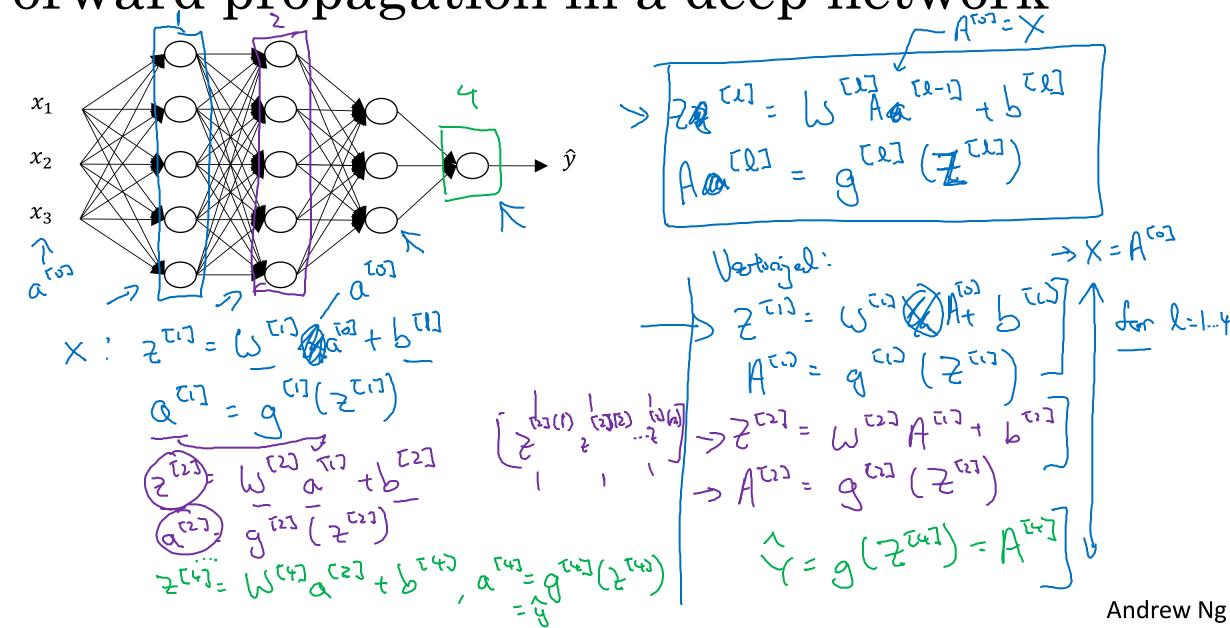


deeplearning.ai

## Deep Neural Networks

Forward Propagation in a Deep Network

Forward propagation in a deep network



Andrew Ng