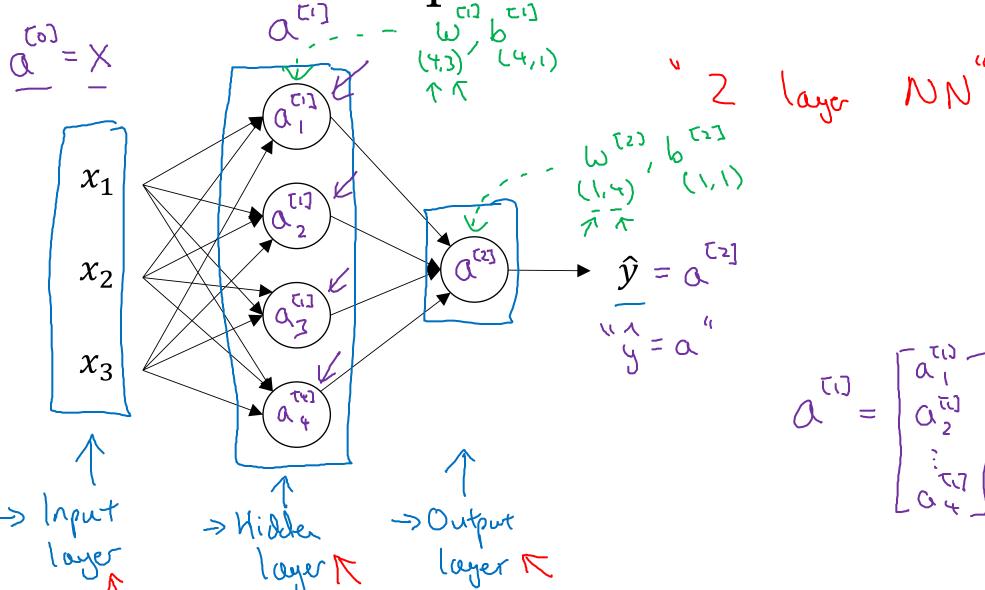


deeplearning.ai

One hidden layer Neural Network

Neural Network Representation

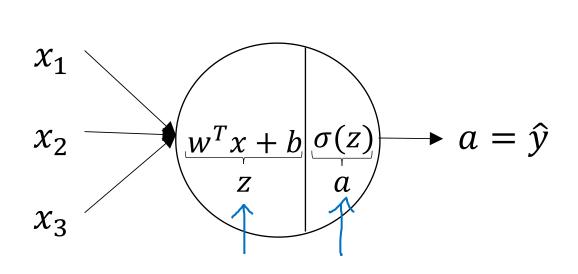




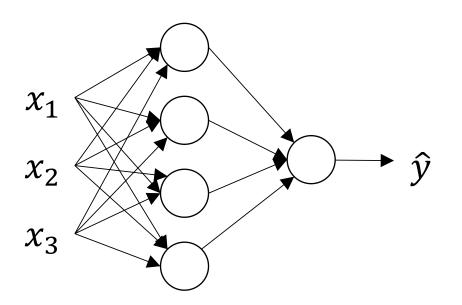
deeplearning.ai

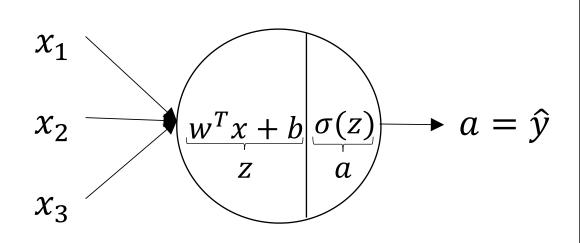
One hidden layer Neural Network

Computing a Neural Network's Output

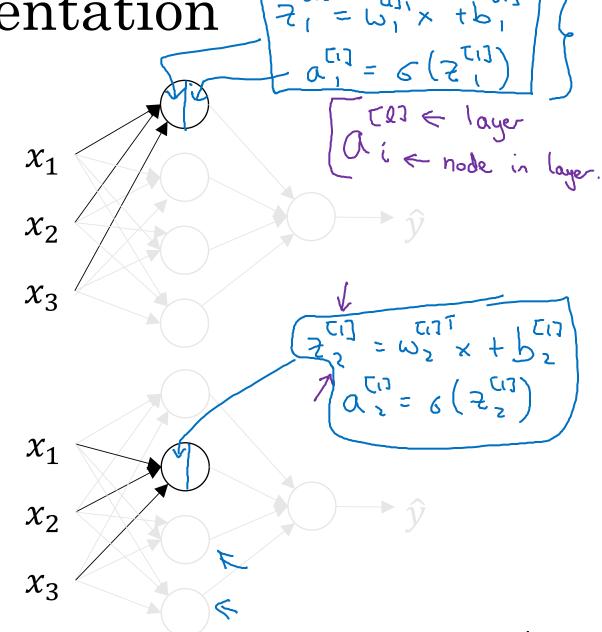


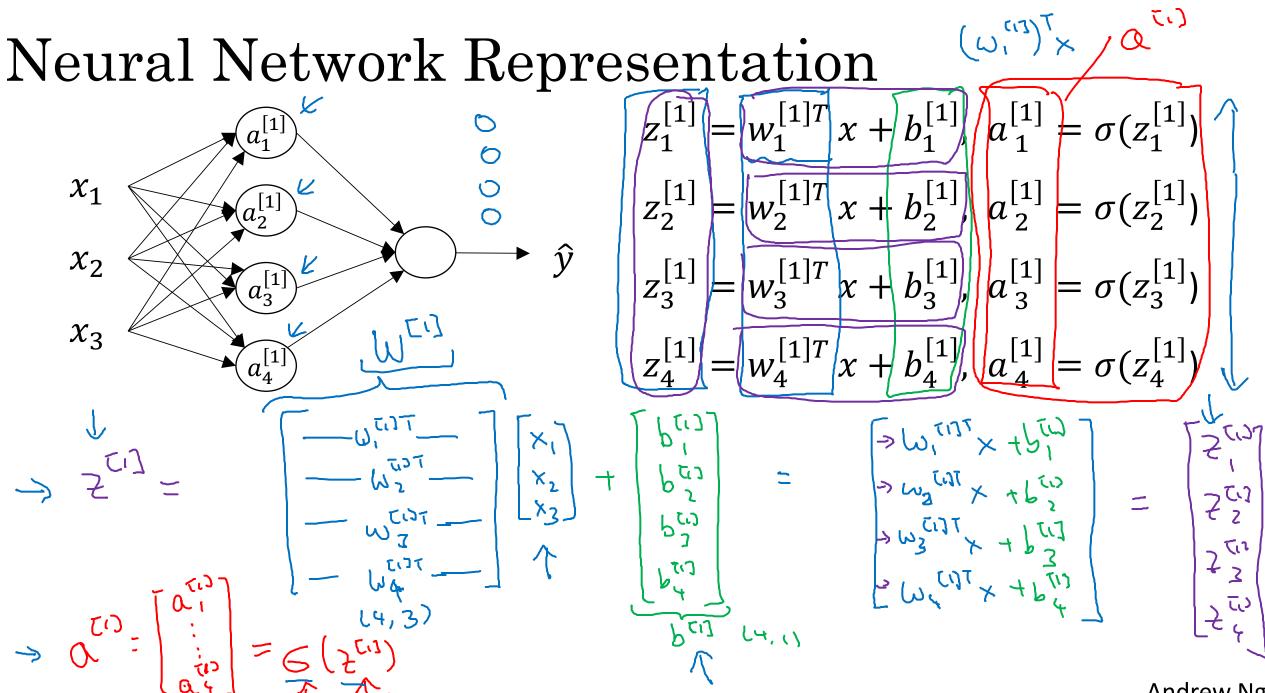
$$z = w^T x + b$$
$$a = \sigma(z)$$





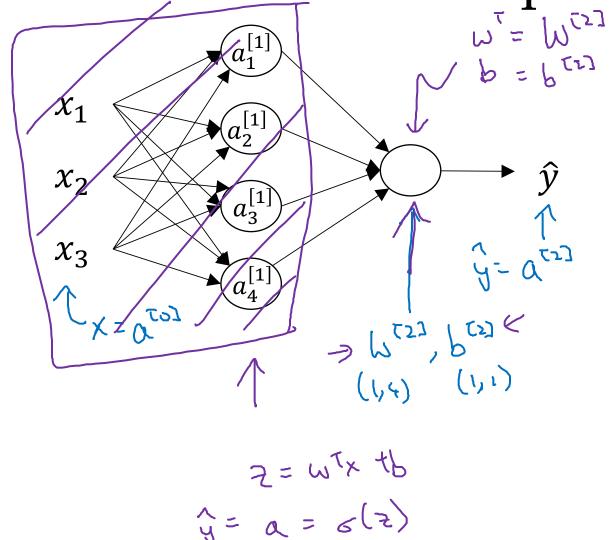
$$z = w^T x + b$$
$$a = \sigma(z)$$





Andrew Ng

Neural Network Representation learning



Given input x:

$$z^{[1]} = W^{[1]} + b^{[1]}$$

$$(4,1) = \sigma(z^{[1]})$$

$$(4,1) = \sigma(z^{[1]})$$

$$(4,1) = w^{[2]}a^{[1]} + b^{[2]}$$

$$(1,1) = w^{[2]}a^{[1]} + b^{[2]}$$

$$(1,1) = \sigma(z^{[2]})$$

$$(1,1) = \sigma(z^{[2]})$$

$$(1,1) = \sigma(z^{[2]})$$