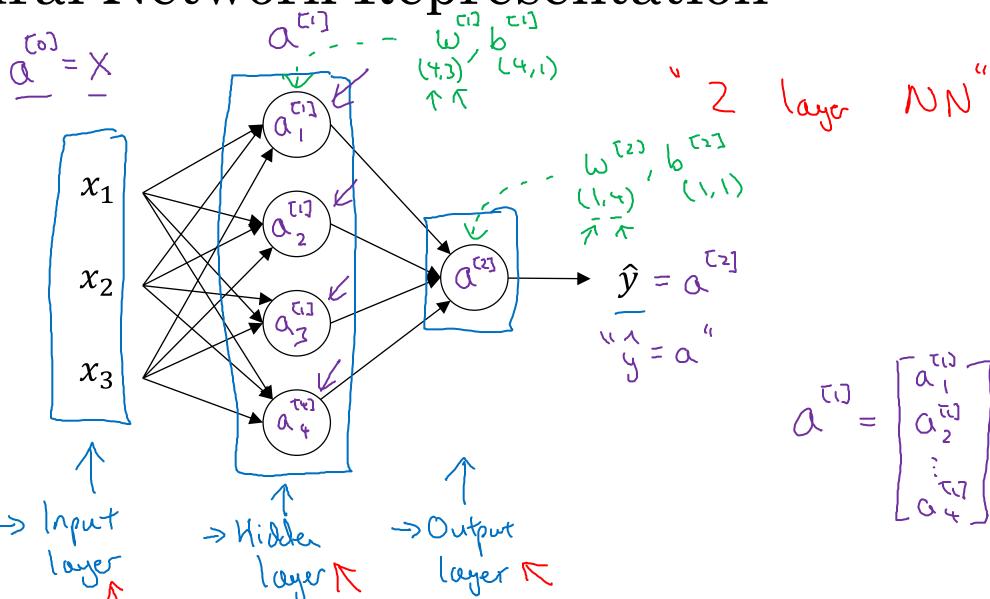


deeplearning.ai

One hidden layer Neural Network

Neural Network Representation

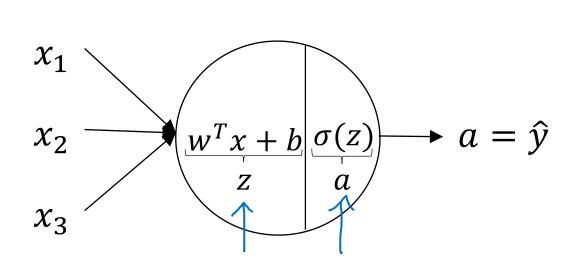




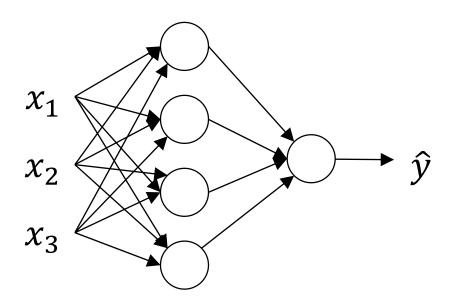
deeplearning.ai

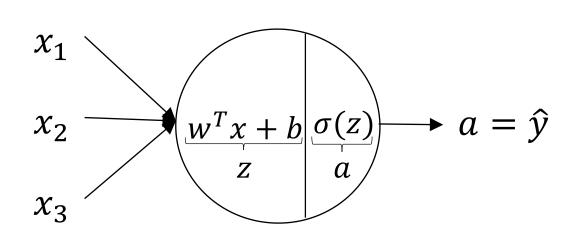
One hidden layer Neural Network

Computing a Neural Network's Output

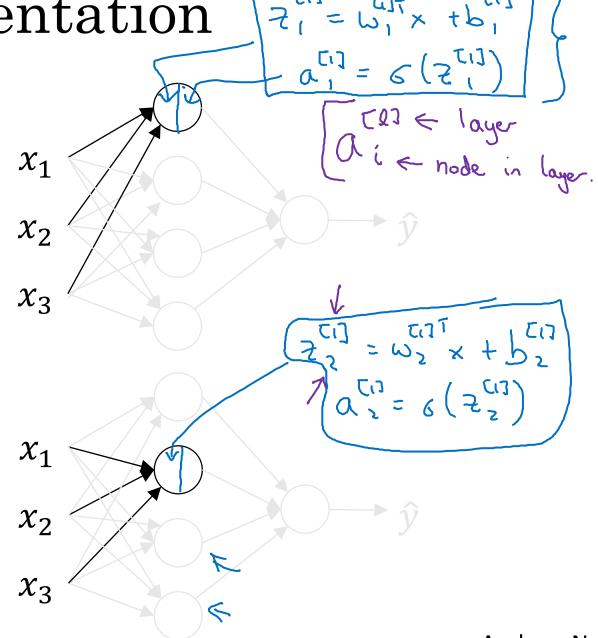


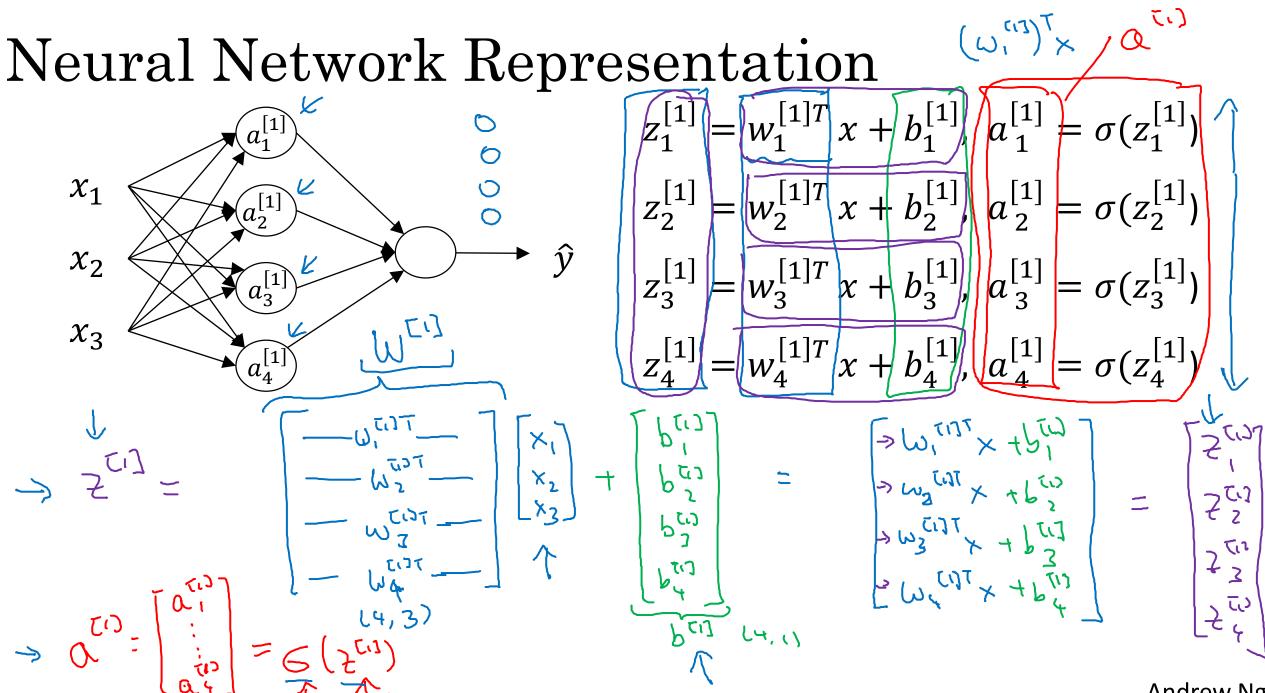
$$z = w^T x + b$$
$$a = \sigma(z)$$





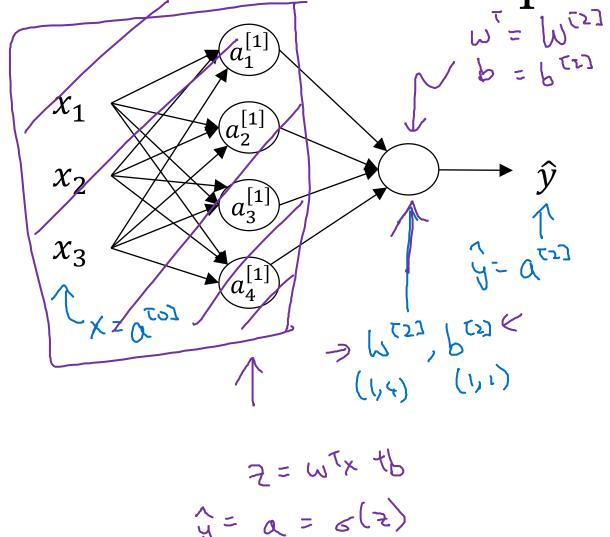
$$z = w^T x + b$$
$$a = \sigma(z)$$





Andrew Ng

Neural Network Representation learning



Given input x:

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

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

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

$$z^{[2]} = W^{[2]} a^{[1]} + b^{[2]}$$

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

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

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