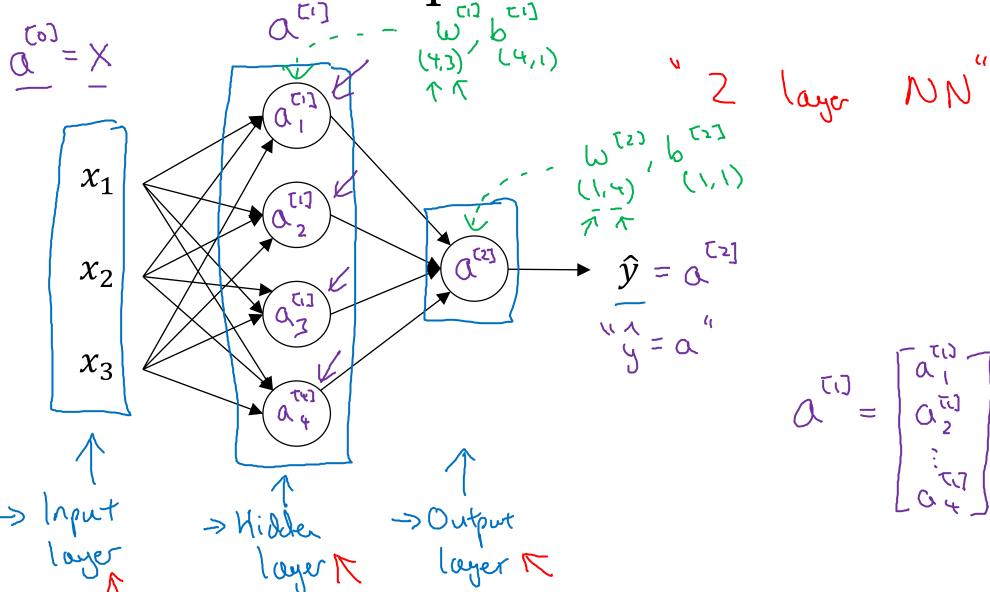


deeplearning.ai

One hidden layer Neural Network

Neural Network Representation

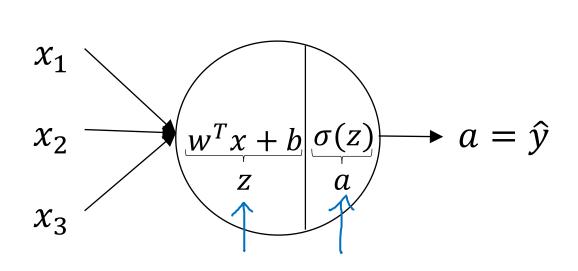


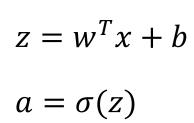


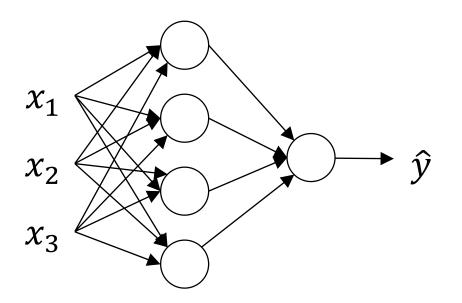
deeplearning.ai

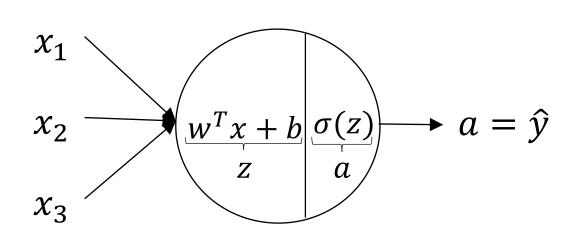
One hidden layer Neural Network

Computing a Neural Network's Output

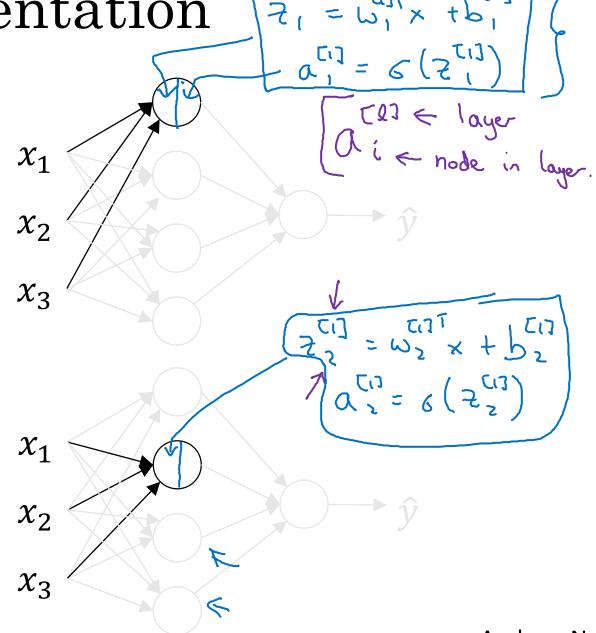


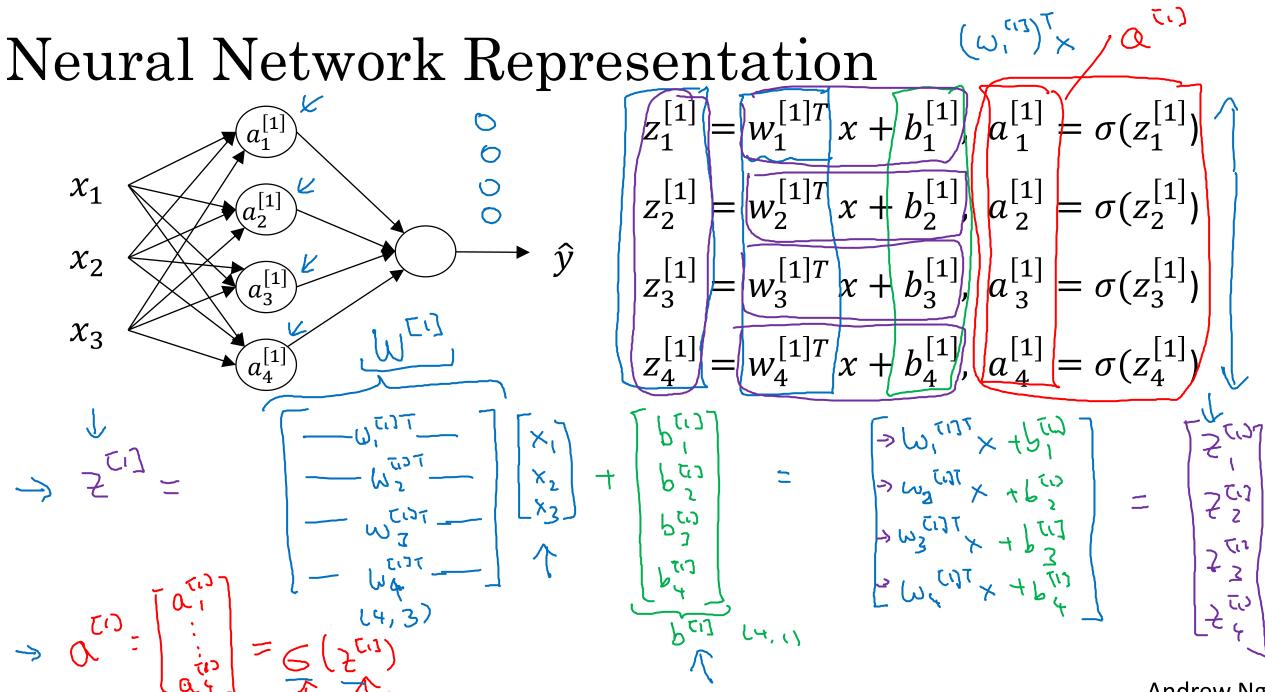






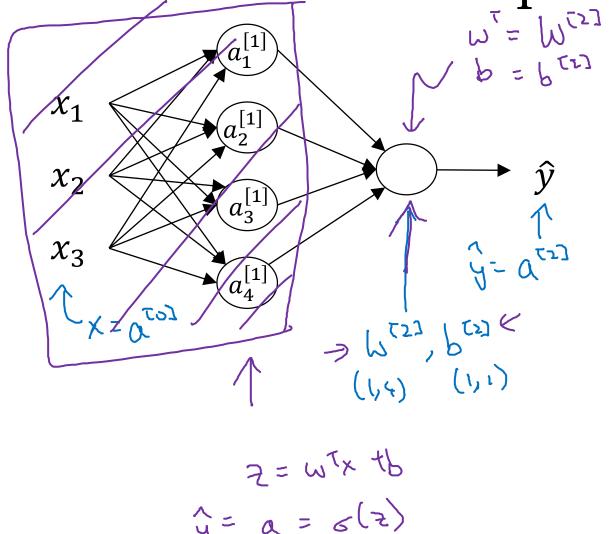
$$z = w^T x + b$$
$$a = \sigma(z)$$





Andrew Ng

Neural Network Representation learning



$$2 = \omega^{T} \times tb$$

$$\hat{y} = \alpha = \delta(2)$$

Given input x:

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

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

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

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

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

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