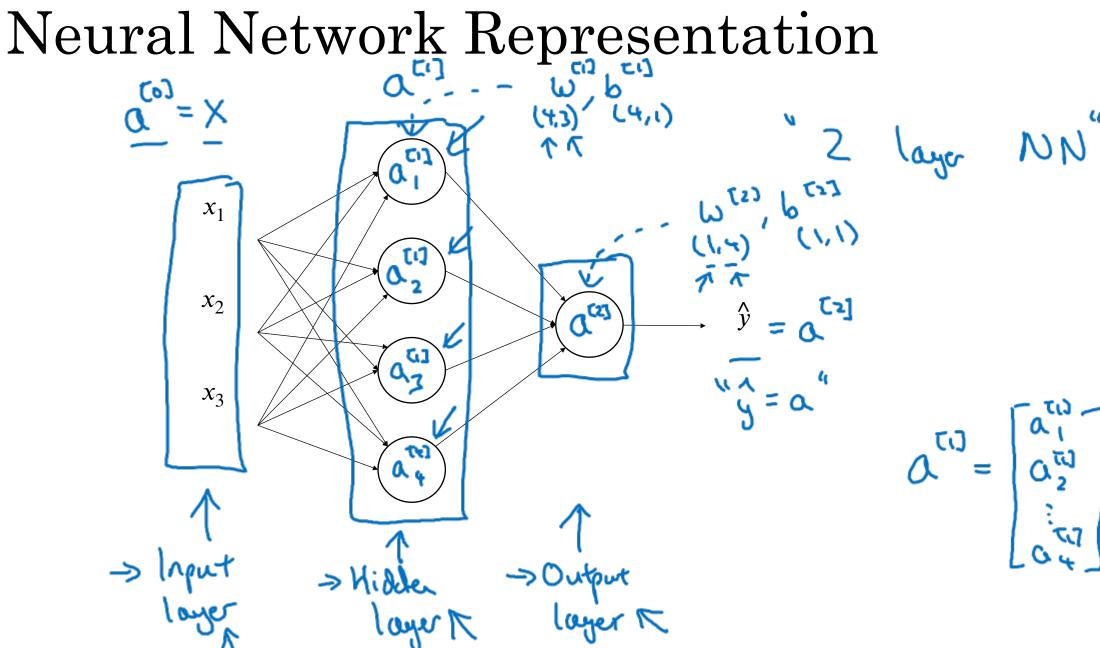


deeplearning.ai

One hidden layer Neural Network

Neural Network Representation



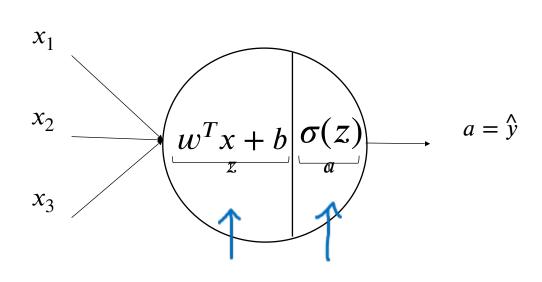


deeplearning.ai

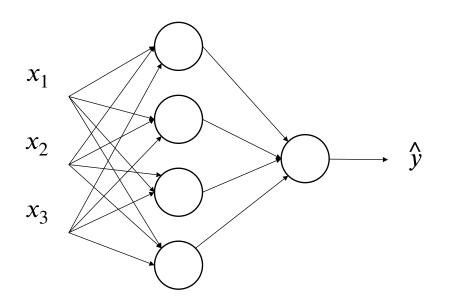
One hidden layer Neural Network

Computing a Neural Network's Output

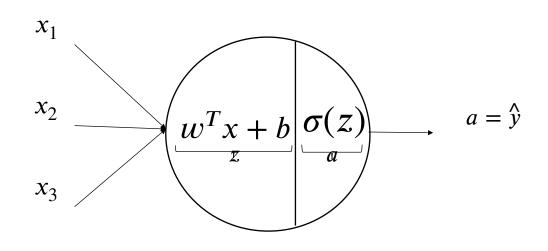
Neural Network Representation



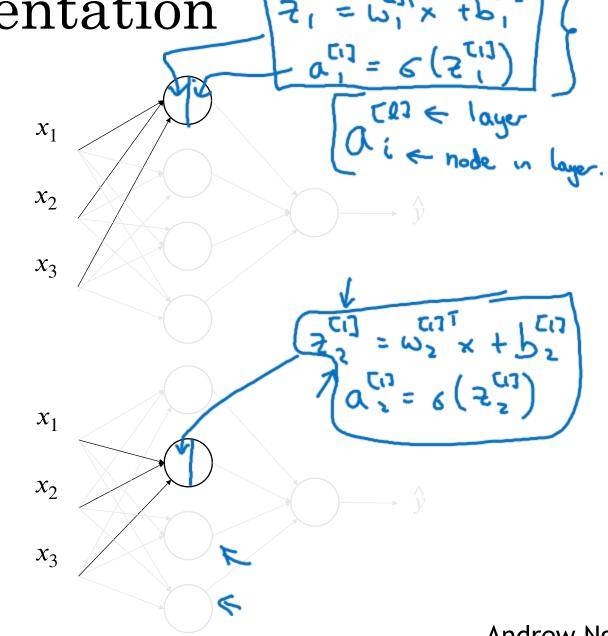
$$z = w^T x + b$$
$$a = \sigma(z)$$



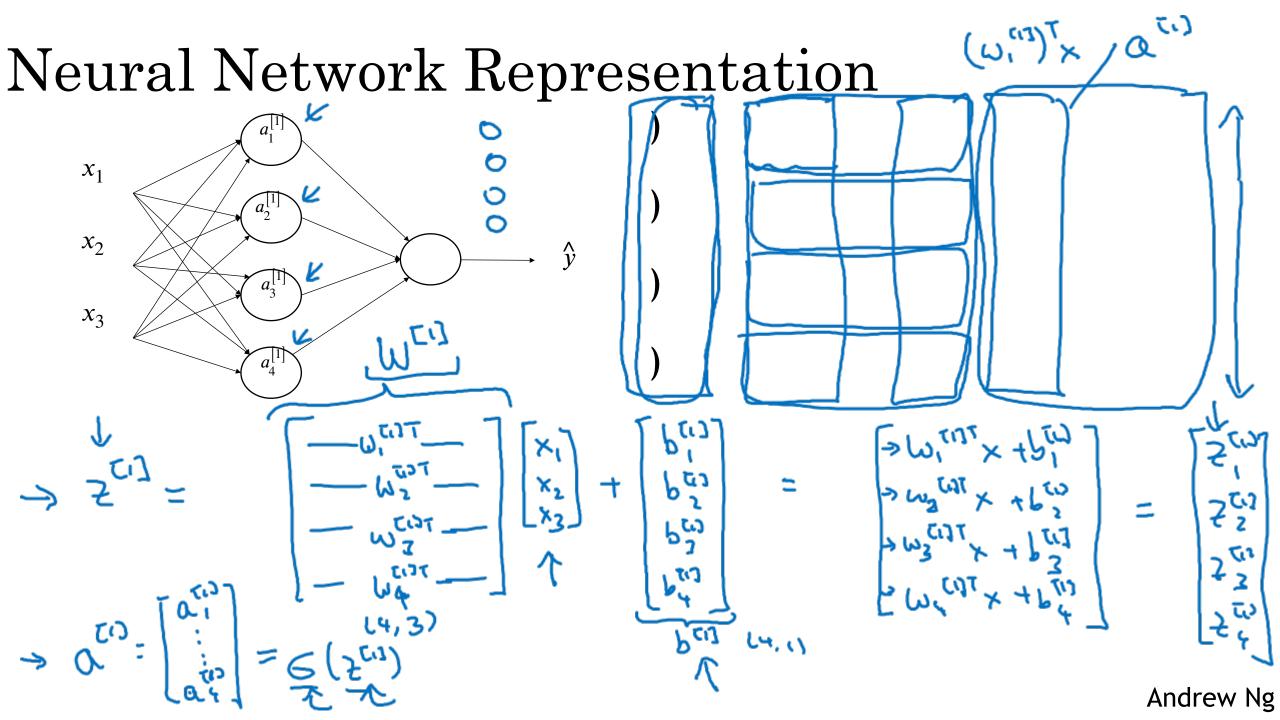
Neural Network Representation



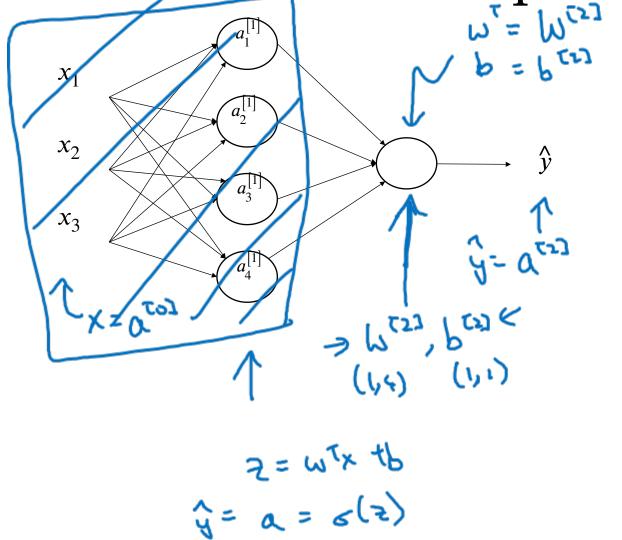
$$z = w^T x + b$$
$$a = \sigma(z)$$



Andrew Ng



Neural Network Representation learning



Given input x:

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

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

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

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

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

$$(1,1)$$

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