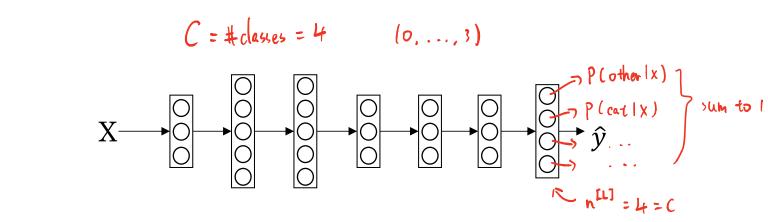


Multi-class classification

Softmax regression

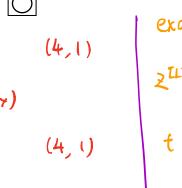
Recognizing cats, dogs, and baby chicks C = # classes = 4 (0,...,3)

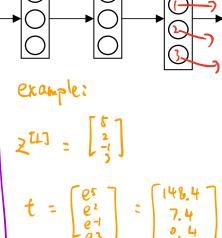


$$Z^{[L]} = W^{[L]}a^{[L-1]} + b^{[L]} \qquad (4,1)$$
Activation function: (softmax)

Activation function: (softmax)

$$0 t = e^{(\mathbf{Z}^{[L]})}$$





$$\frac{2}{y} = 0.042$$

$$\frac{26.3}{y} = 0.042$$

$$\frac{4}{y} = 176.3$$

$$\frac{4}{1} = 176.3$$

Andrew Ng

Softmax examples (no hidden legers)

