

deeplearning.ai

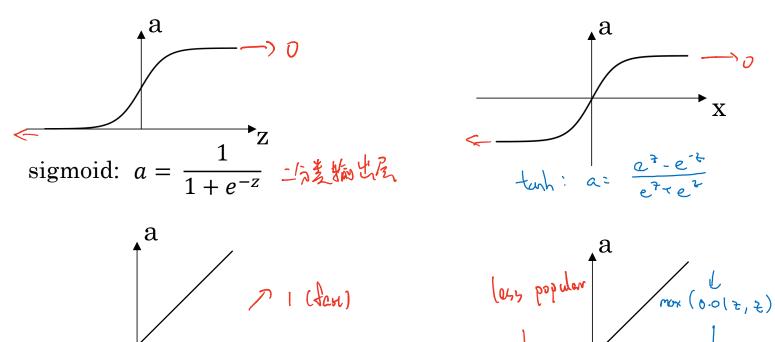
One hidden layer Neural Network

Activation functions

Activation functions (2 (1)) = tanh (2(1)) 好 Signoil = 6(2 [17]) x_2 [2] MA OSÝSI Given x: Q=max(0, 2) $z^{[1]} = W^{[1]}x + b^{[1]}$ Rectifiel $\Rightarrow a^{[1]} = o(z^{[1]}) \cdot g^{[1]}(z^{[1]})$ $z^{[2]} = W^{[2]}a^{[1]} + b^{[2]}$ leaky Rely $\Rightarrow a^{[2]} = \sigma(z^{[2]}) \alpha^{(1)}(z^{(1)})$

Andrew Ng

Pros and cons of activation functions



fell a= max(0,7) default leaky RelU a= max(0.01=,2)
Andrew