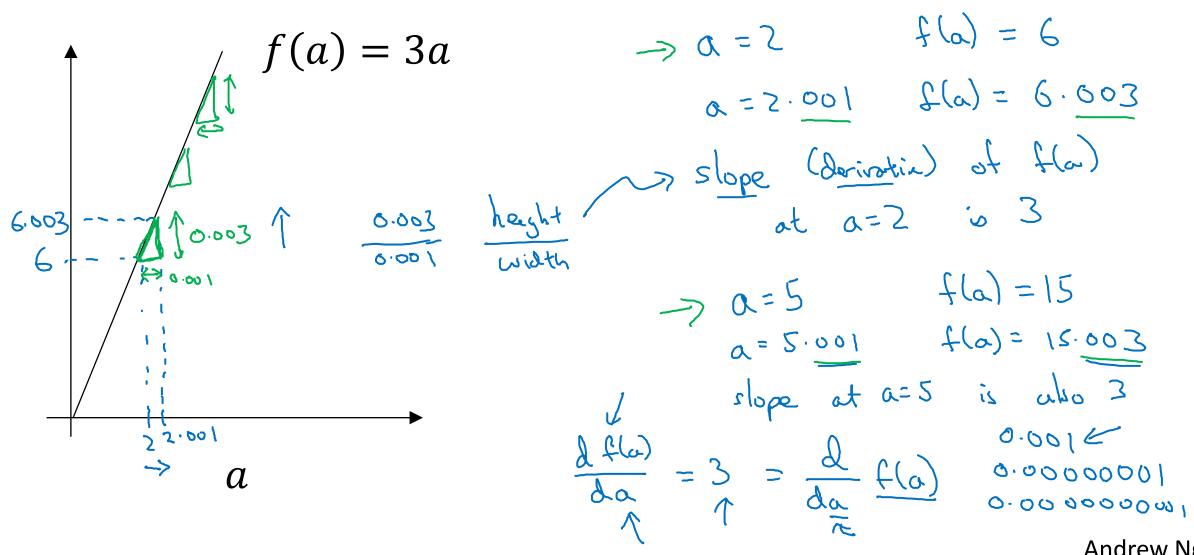


Basics of Neural Network Programming

Derivatives

deeplearning.ai

Intuition about derivatives



Andrew Ng



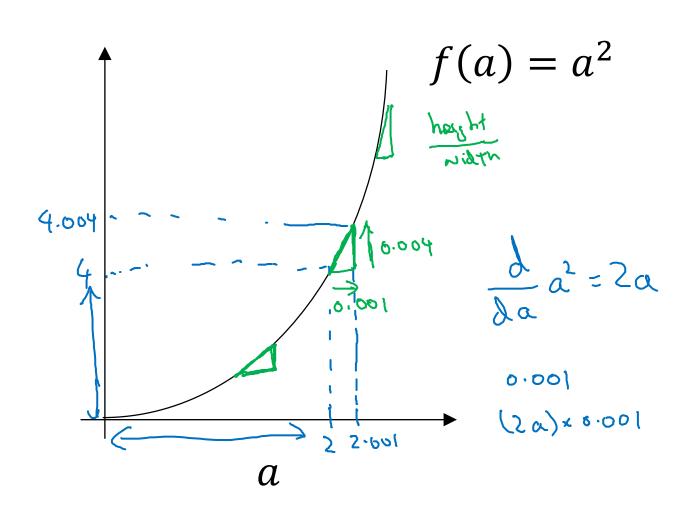
deeplearning.ai

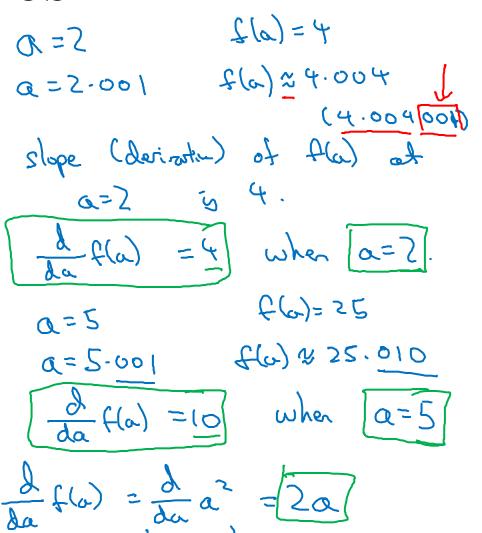
Basics of Neural Network Programming

More derivatives examples

Intuition about derivatives







More derivative examples

$$f(a) = a^2$$

$$\frac{d}{da}(a) = 3a^{2}$$
 $3*2^{3} = 12$

$$a = 2$$
 $f(a) = 4$
 $a = 2 - 001$ $f(a) = 4 - 004$

$$a = 5.001$$
 $f(a) = 8$
 $a = 5.001$ $f(a) = 8$

$$Q = 2.001 \quad f(\omega) \approx 0.69365$$

$$0.0005$$

$$0.0005$$