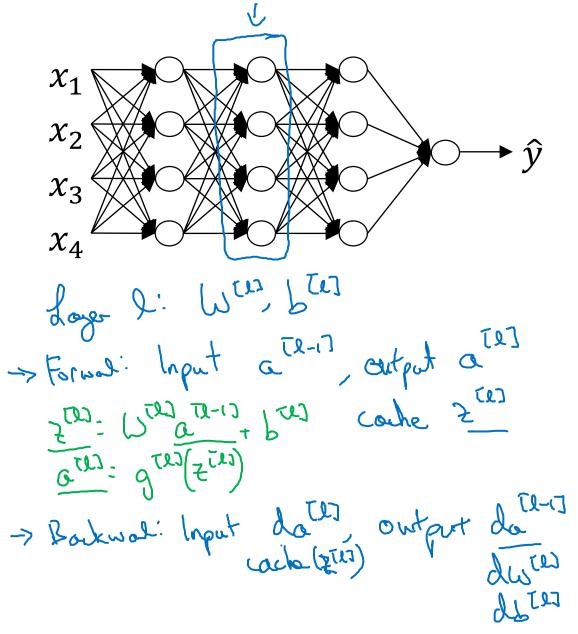


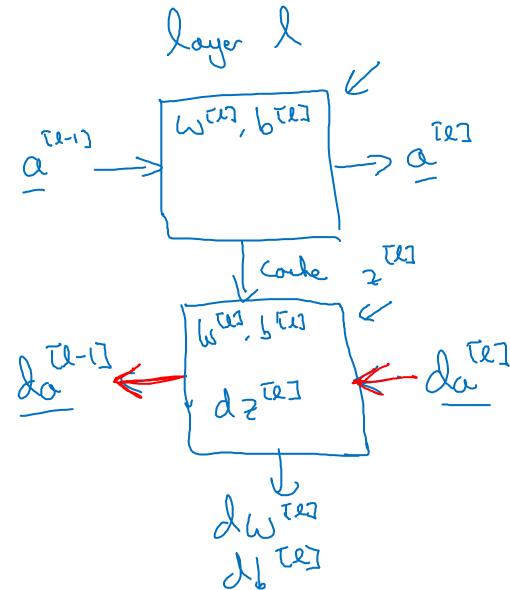
deeplearning.ai

# Deep Neural Networks

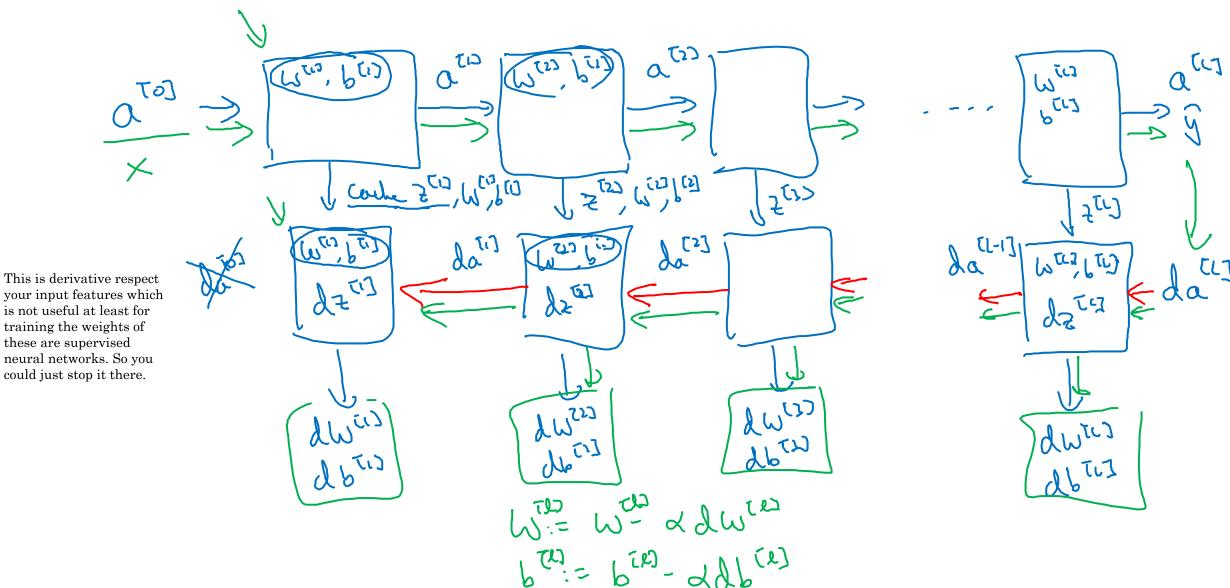
Building blocks of deep neural networks

#### Forward and backward functions





#### Forward and backward functions





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# Deep Neural Networks

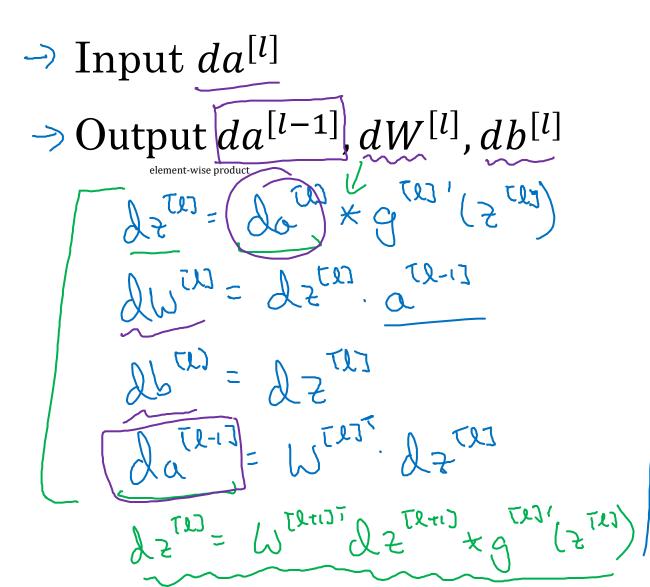
Forward and backward propagation

### Forward propagation for layer l

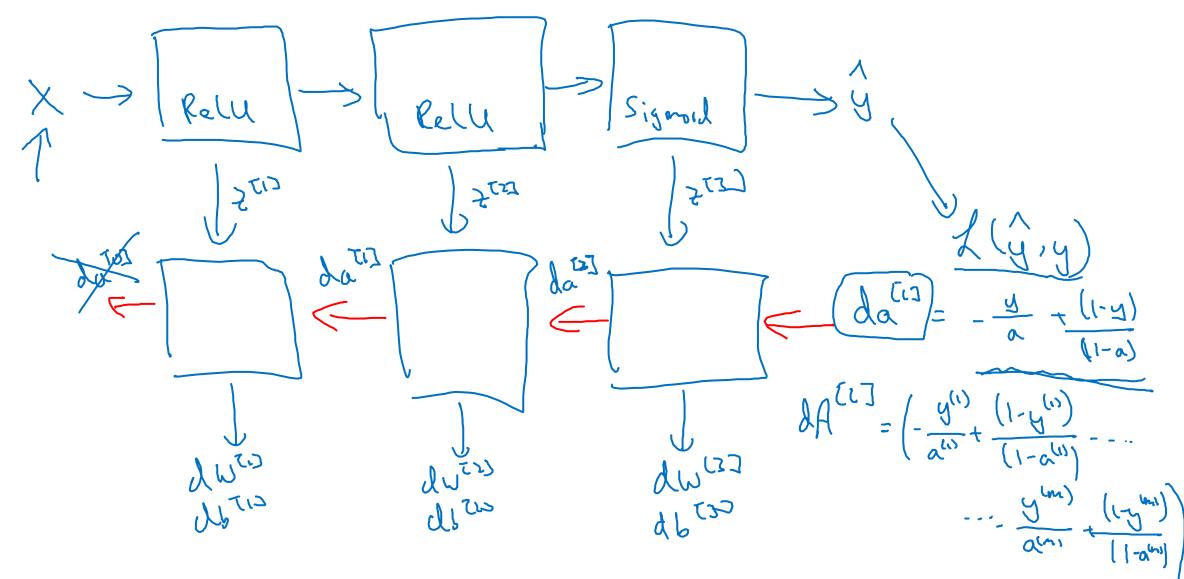
 $\rightarrow$  Input  $a^{[l-1]} \angle$  $\rightarrow$  Output  $a^{[l]}$ , cache  $(z^{[l]})$ QTN= 9TN (2(17)

So that's the input to the first forward function in the chain and then just repeating this allows you to compute forward propagation from left to right

### Backward propagation for layer l



### Summary



Andrew Ng