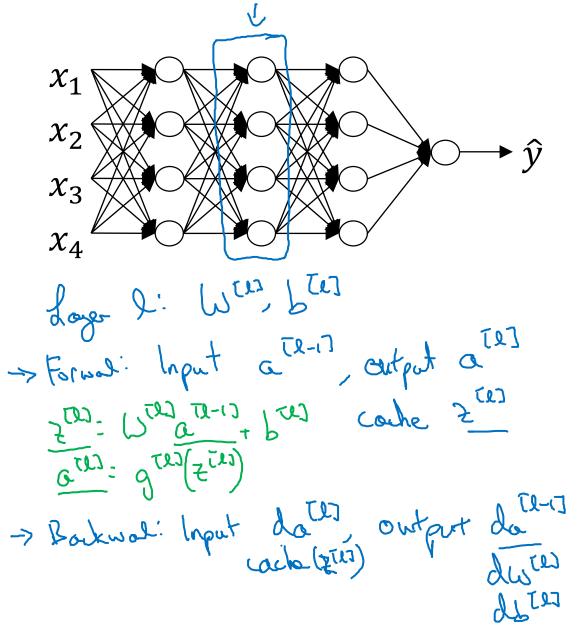


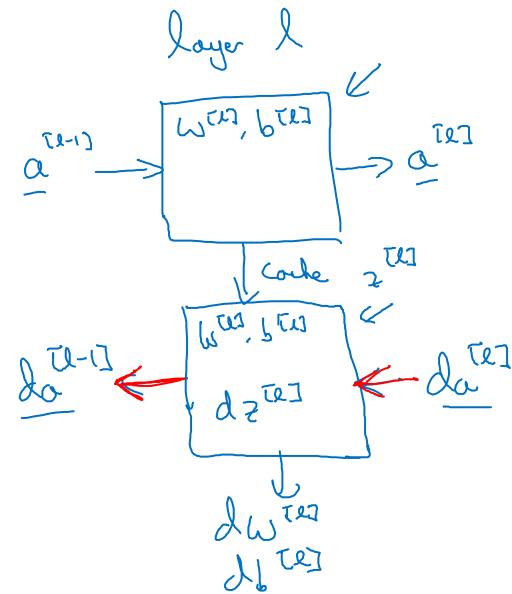
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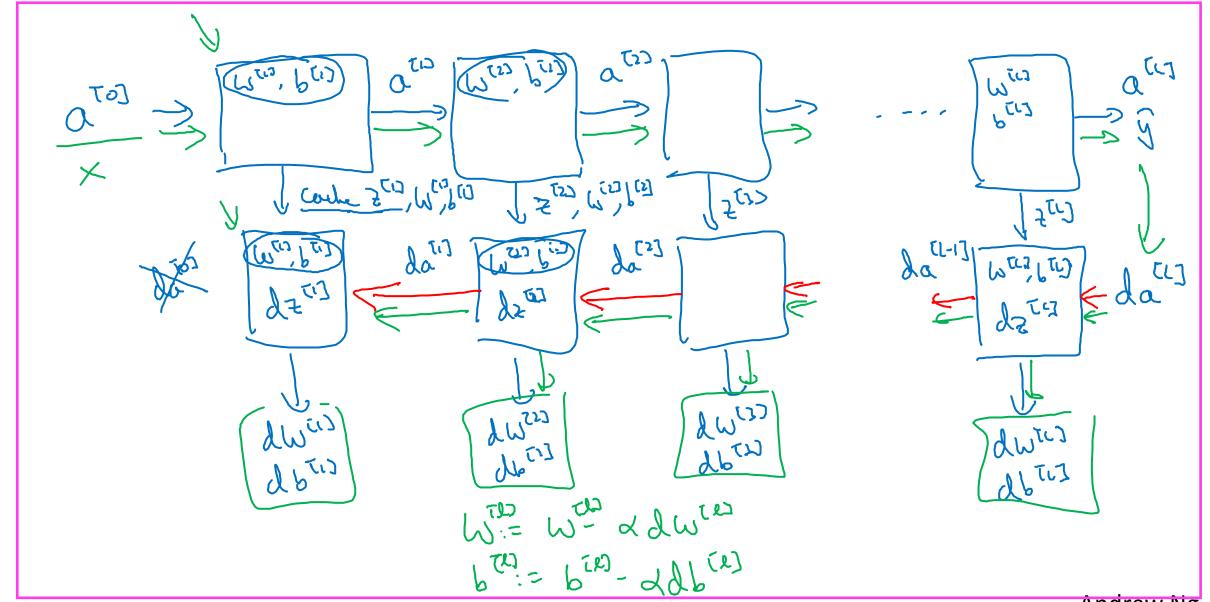
Building blocks of deep neural networks

Forward and backward functions





Forward and backward functions



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Deep Neural Networks

Forward and backward propagation

Forward propagation for layer l

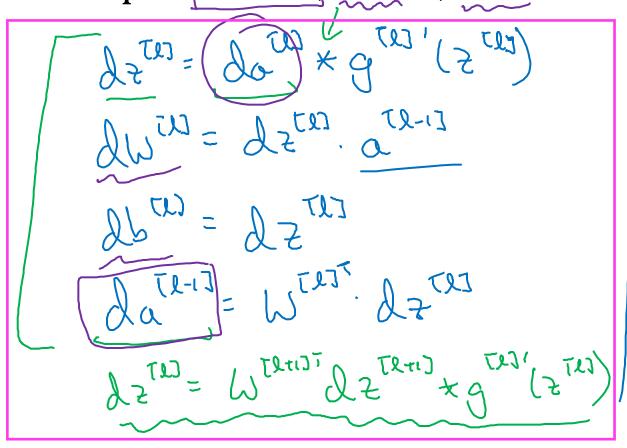
- ⇒ Input $a^{[l-1]}$ ⇒ Output $a^{[l]}$, cache $(z^{[l]})$

$$2^{TLT} = W^{TLT} \cdot \alpha^{TL-1} + b^{TLT}$$

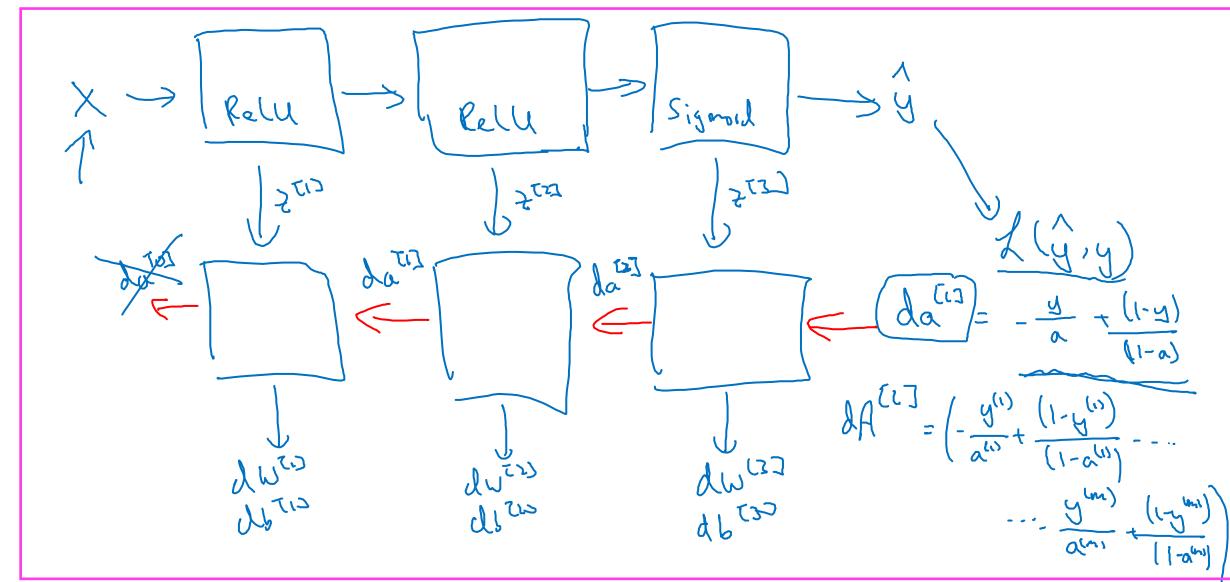
$$\alpha^{TLT} = g^{TLT} \left(2^{TLT} \right)$$

Backward propagation for layer l

- \rightarrow Input $da^{[l]}$
- \rightarrow Output $da^{[l-1]}$, $dW^{[l]}$, $db^{[l]}$



Summary



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