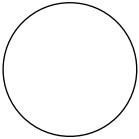
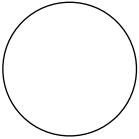
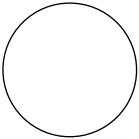
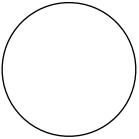
Gradient backpropagation

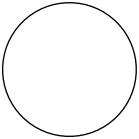
The most profitable application of the chain rule of all time!





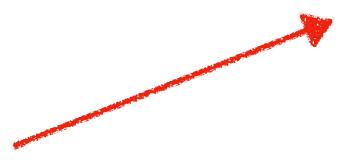




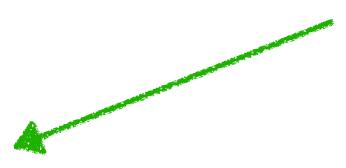




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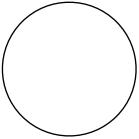












 $\sigma_{activation}$

dCE. $\partial \sigma_{softmax}$

$$\frac{\sigma_{softmax}}{\partial z^{(2)}}$$

```
\sigma_{softmax}
```

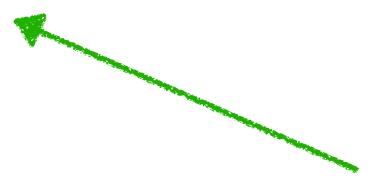


$$\frac{\partial a^{(1)}}{\partial w_2^{(1)}}$$

$$\frac{\partial a^{(1)}}{\partial w_1^{(1)}}$$

$\partial \sigma_{activation}$ $\partial a^{(1)}$

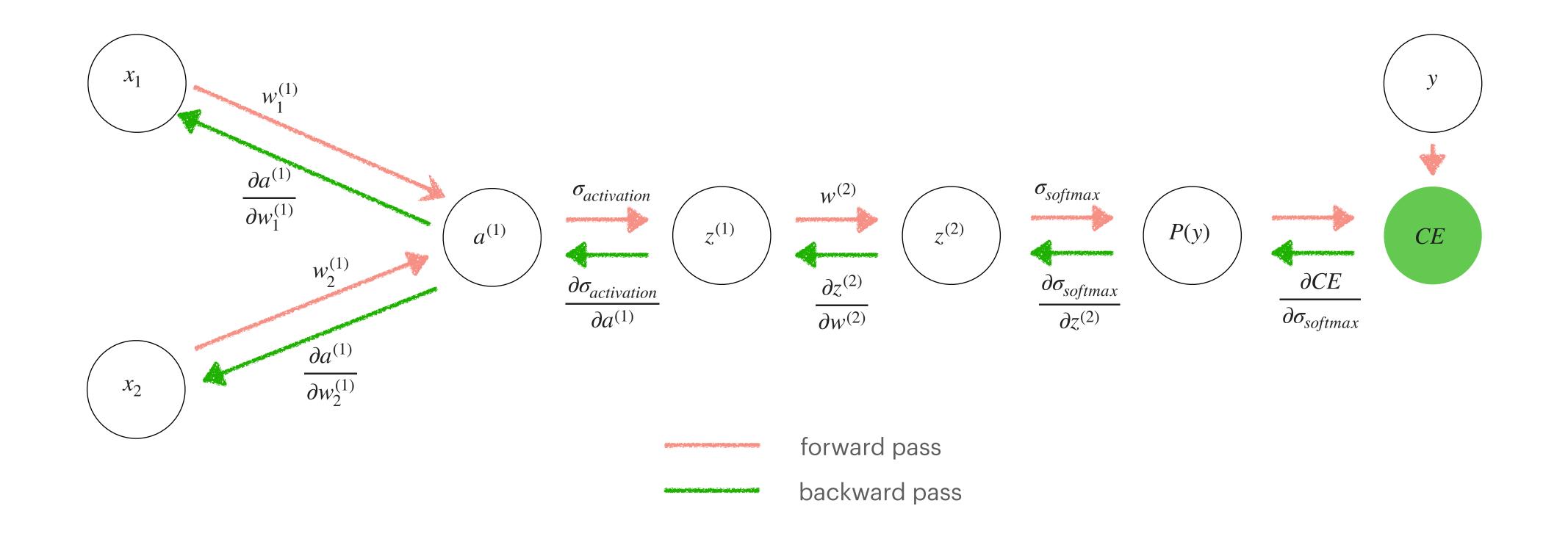




forward pass

backward pass

Gradient backpropagation



The most profitable application of the chain rule of all time!

Neural network visualization