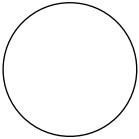
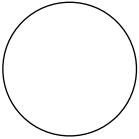
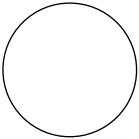


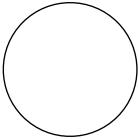
# Gradient backpropagation

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



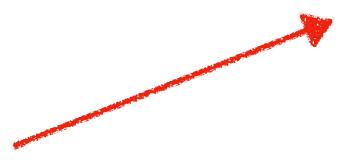




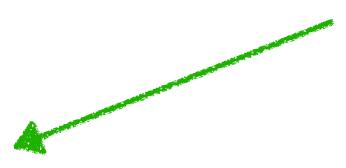




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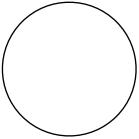












 $\sigma_{activation}$ 

$$\frac{\partial L_{CE}}{\partial P_{y|x}}$$

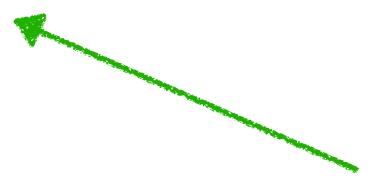
7(2

```
\sigma_{softmax}
```



/

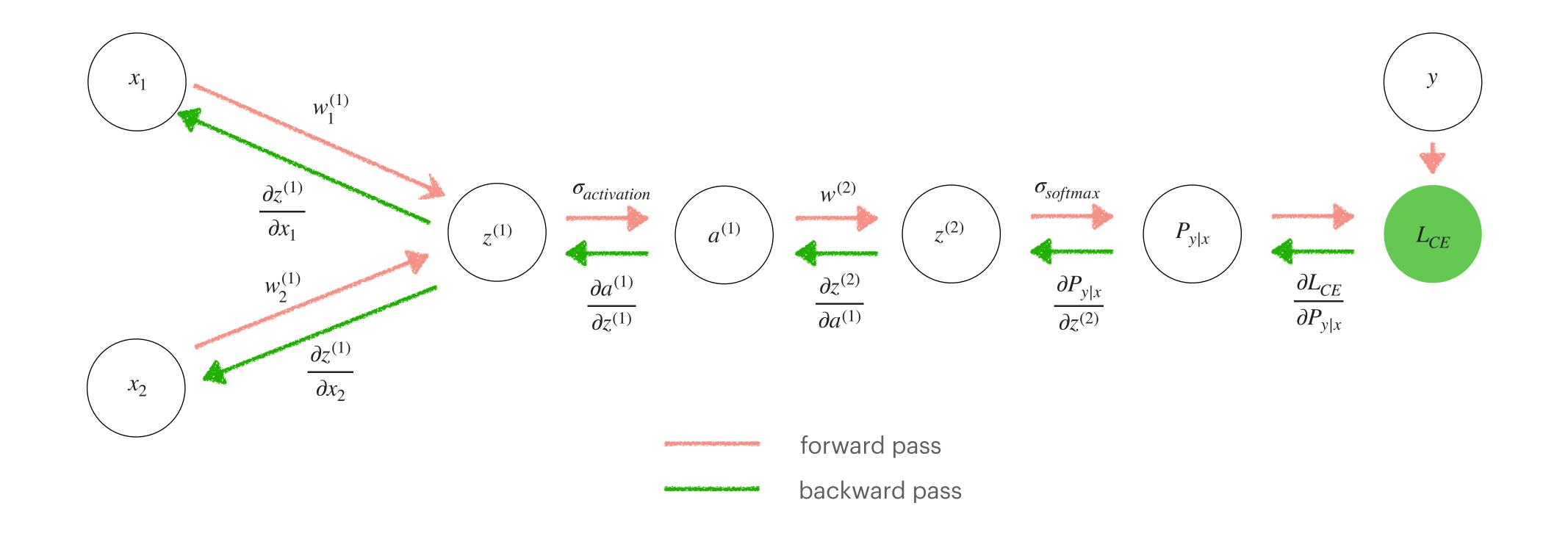




#### forward pass

#### backward pass

## Gradient backpropagation



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

### Neural network visualization