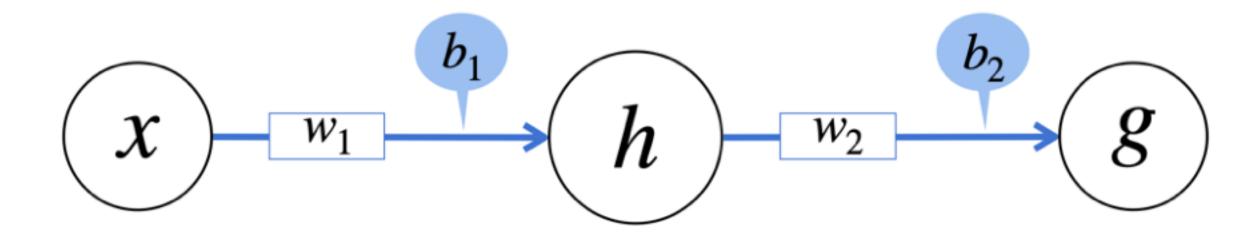
Backpropagation



$$\frac{1}{N} \sum_{i}^{N} (y_i - g_i)^2 \implies \frac{1}{N} \sum_{i}^{N} (y_i - (w_2 \cdot (w_1 \cdot x_i + b_1) + b_2)^2$$
actual
predicted

next part of gradient is with respect to our second parameter

$$\frac{\partial Loss}{\partial b_1} = \frac{Loss}{\partial g} \cdot \frac{\partial g}{\partial h} \cdot \frac{\partial h}{\partial b_1}$$
$$-2(y_i - g_i) w_2 \qquad 1$$

sum over all observations

and so forth for all parameters...
this is backpropagation

Butterfly Effect

