

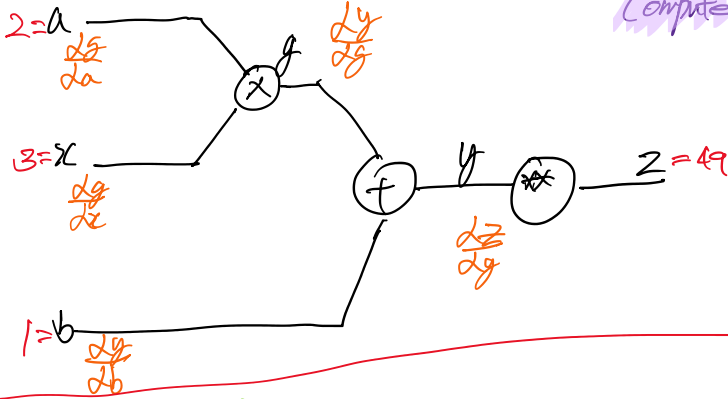
Back propagation

2018년 8월 21일 화요일 오후 1:53

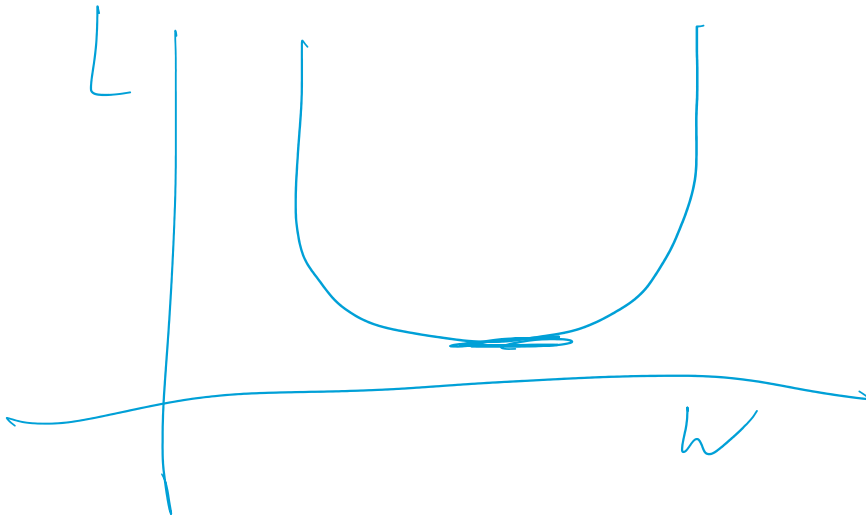
$$y = ax + b, \quad y = x^2$$

$$z = y^2$$

Compute Graph



1. $\frac{dz}{da} = \frac{dy}{da} \cdot \frac{dz}{dy}$ (partial Derivative)
2. $\frac{dz}{dx} = \frac{dy}{dx} \cdot \frac{dz}{dy}$
3. $\frac{dz}{db} = \frac{dy}{db} \cdot \frac{dz}{dy}$ (chain Rule)



$$\Rightarrow \frac{\partial L}{\partial w} = 0 \text{ 가계와 직결하자 } w \text{ 최적화}$$