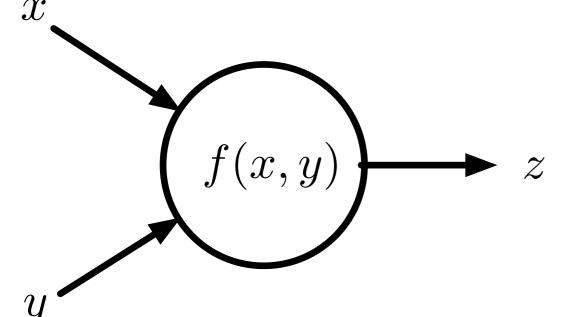**Forward Pass**

x

y

$f(x, y)$

z

Backward Pass

$$\frac{\partial L}{\partial x} = \frac{\partial L}{\partial z}\frac{\partial z}{\partial x}$$

$$\frac{\partial L}{\partial y} = \frac{\partial L}{\partial z}\frac{\partial z}{\partial y}$$

df

$$\frac{\partial L}{\partial z}$$