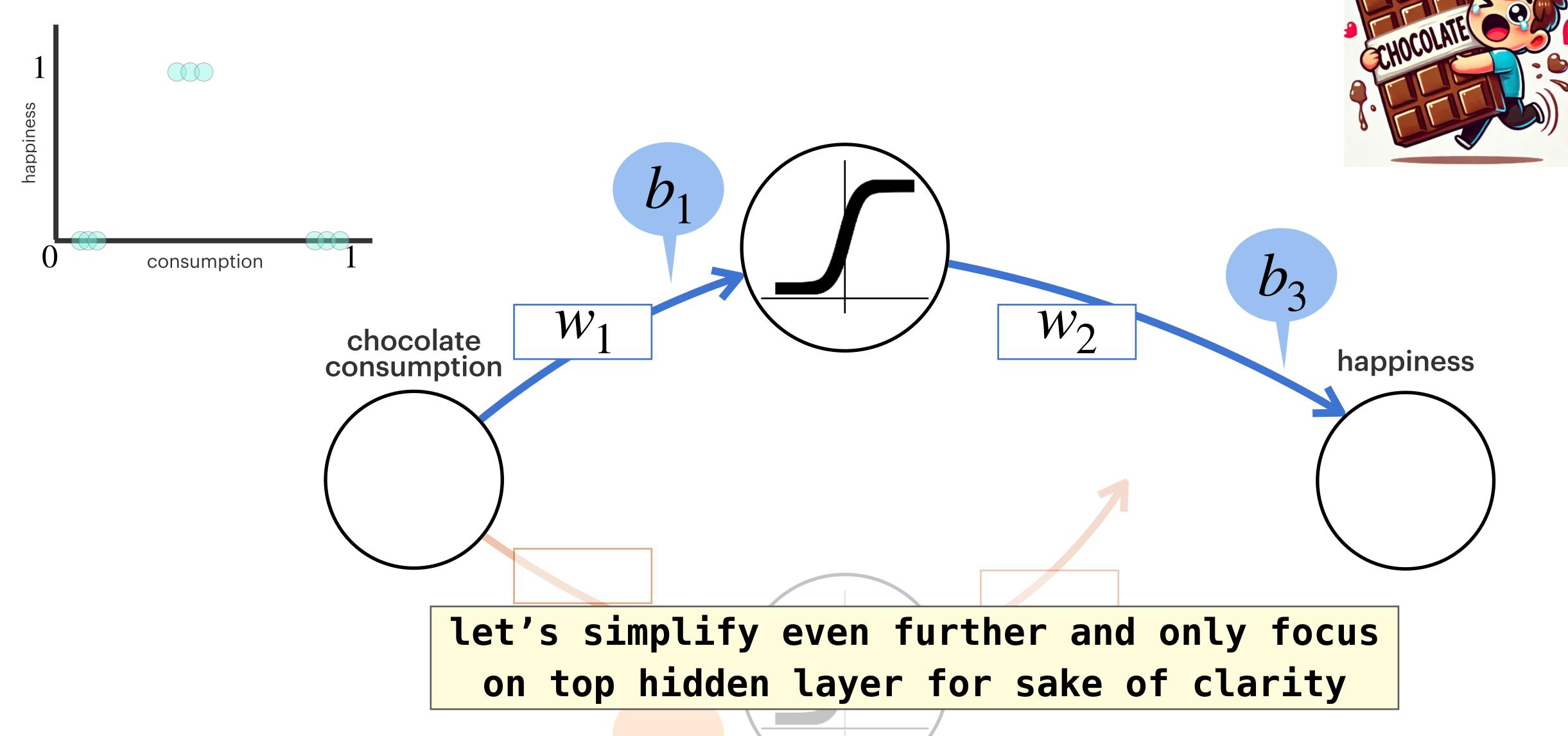
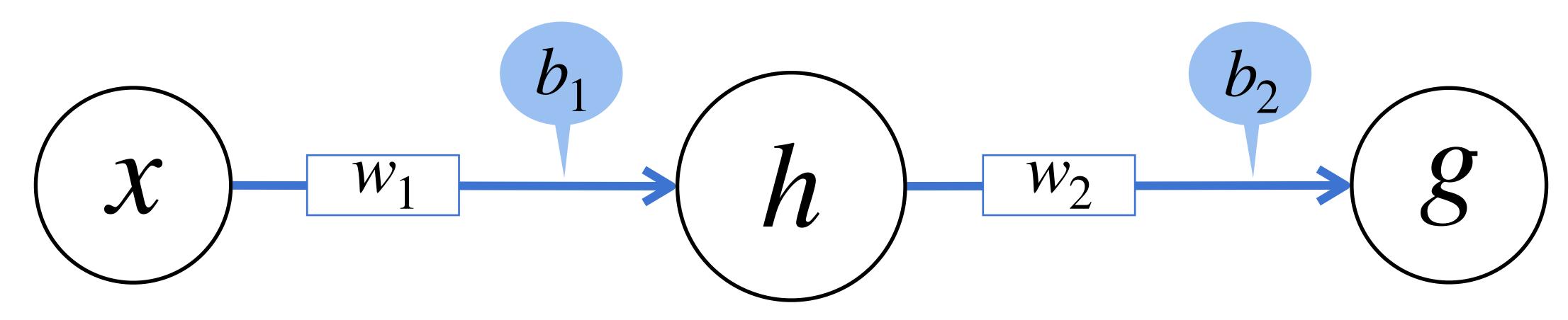
Back to Our Neural Network



Backpropagation



Chain rule:

If we want to know how changing x affects f(g(x)) we first need to think about how changing x affects g(x) and then how changing g(x) affects f(g(x)):

$$\frac{\partial f(g(x))}{\partial x} = \frac{\partial f}{\partial g} \cdot \frac{\partial g}{\partial x}$$

the derivative of the outer function f evaluated at g(x) multiplied by the derivative of the inner function g(x)