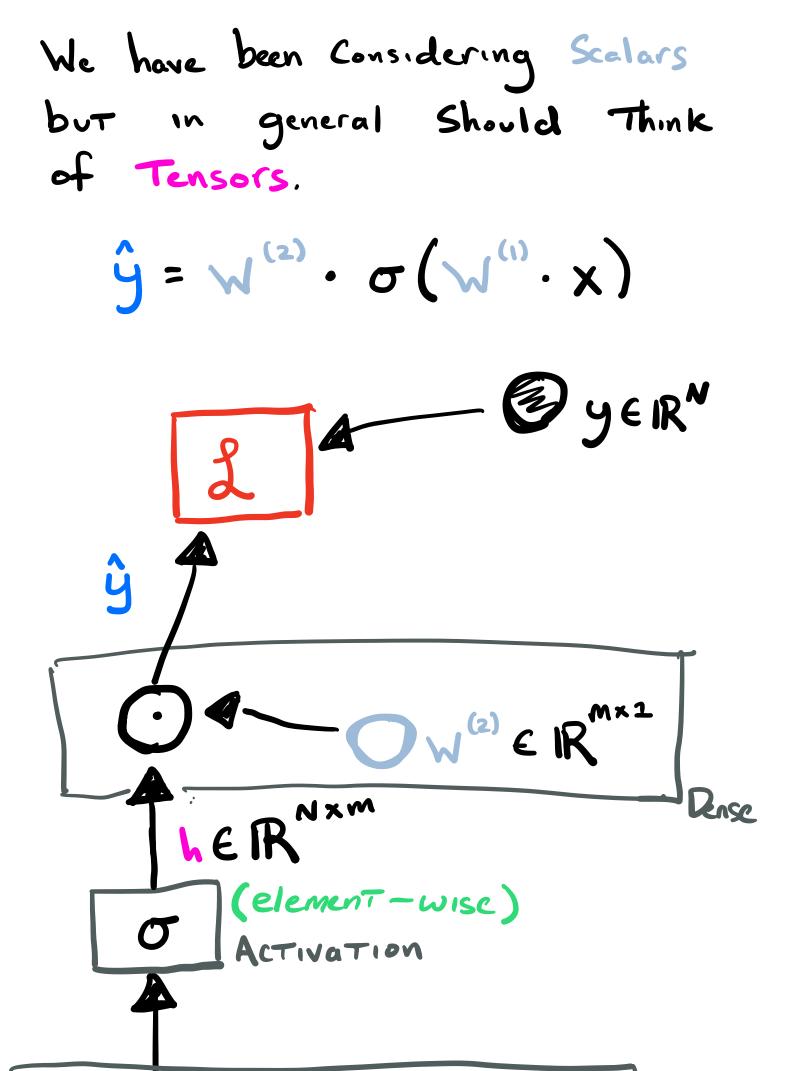


Let's build a graph for a Simple regression model [Exercise! See NB]

 $\dot{\mathbf{y}} = \mathbf{W}_{\mathbf{z}} \cdot (\mathbf{W}_{\mathbf{y}} \cdot \mathbf{X} + \mathbf{b}_{\mathbf{y}}) + \mathbf{b}_{\mathbf{z}}$ 

 $l(\hat{y}, y) = (\hat{y} - y)^2$ 

$$X = 3; W_1 = 5; b_1 = 2; W_2 = 2; b_2 = 3 \quad Y = 40$$
  
(See Colab)



Note that this can be assembled dynamically 1.e. before a forward pass. In Code, each block is a Module which is a class. We can chain these together.

(See Norchook & Textbook)