

X = matrix  
Y = matrix  
W = matrix  
b = matrix

$$z = X @ W.T + b$$

*(Note: Underneath the matrix multiplication part of the equation, there is a bracket labeled 'm1'. An arrow points from this bracket to the 'z' variable in the equation above.)*

$$a = z . \text{sigmoid}()$$
$$l = ((a - y) ** 2) . \text{mean}()$$

*(Note: Underneath the loss calculation part of the equation, there are two brackets labeled 'm2' and 'm3'. An arrow points from the 'm3' bracket to the 'l' variable in the equation above.)*

l.backward()



