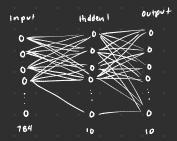
Wetwork Structure



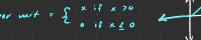
Forward Propogation -> storts with input image, ends with prediction output

input layer

$$7 = la' A' + b'$$

2 = W 11 + 10

Activation function



$$2^2 = W^2 A' + b^2$$

A2 = softmax (22)

output Softmax possibility
$$\begin{bmatrix}
1.3 \\
5.1 \\
2.2 \\
0.7
\end{bmatrix}
\rightarrow
\begin{bmatrix}
e^{g_1} \\
1 \\
e^{g_2}
\end{bmatrix}$$

$$e^{g_1} \\
e^{g_2}$$

$$e^{g_1} \\
0.5$$

Backward Propagation -> update weights + bioses for next forward prop

Starts with prediction, calculate how far prediction deviated from lobe

Colors how much by t b contributed from that deviation, and adjust

How much was prediction off

Hidden layer

dz2 = A2 - Y

Prediction 1

$$dw' = \frac{1}{m} dz' x^T$$

Back to forward Prop!

Rinse + repeat ALOT