



NEURAL NETWORKS Notes on Udacity notation

In the videos our exercises from Udacity, the weight matrix is defined the other way around, compared to how Andrew Ng does it:

- Andrew Ng: W: (Spt, Sp+1): (new units, old anits + 1 has)

- Udanty: W: (old units, new units)

Given the order how we musent the sizes the layers / weight matrices, the Udacity approach is maybe more intuitive.

Note that in that case, the multiplication order needs to be changed to match the sizes:

 $Z = \alpha \cdot W : (batch, old) \times (old, new) = (botch, new)$

 $Z \leftarrow Z + 10$: bas is added, not inserted in W 5: (batch, new)