



$$z_j^l = \sum_{i=1}^{N_{l-1}} w_{ij}^l o_i^{l-1} + b_j^l$$

$$o_i = f(z_i)$$

$$C(\{w, b\}) = \frac{1}{2} \sum_i (o_i^L - t_i)^2$$

$$f_i = o_i^L(w, b, x_i)$$