

$$\vec{x}^i @ \sqrt{W}^j \rightarrow \vec{z}^j \xrightarrow{f(\cdot)} \vec{y}^j \xrightarrow{\mathcal{E}(\cdot)} e$$

$$\sum_i x_i w_{ij} = z_j$$

$$f(z_j) = y_j$$

$$\mathcal{E}(y_j; y_j^*, t_j) = e = \sum_j^{S.E.} (y_j - y_j^*)^2$$

$$\frac{\partial e}{\partial y_j} = 2(y_j - y_j^*) \quad \leftarrow \frac{\partial e}{\partial y_j}$$



