



LSTM

- $z = f(x_1, x_2)$
- $\frac{\partial E_t}{\partial x_1} = \frac{\partial E_t}{\partial z} \cdot \frac{\partial z}{\partial x_1} = \frac{\partial E_t}{\partial z} \odot x_2$
- $\begin{pmatrix} x_1 \\ x_2 \end{pmatrix} \odot \begin{pmatrix} y_1 \\ y_2 \end{pmatrix} = \begin{pmatrix} x_1 y_1 \\ x_2 y_2 \end{pmatrix}$