Softmax

converts numbers to probabilities

$$e_x = \exp(x - \overline{x})$$

$$e\_x = e\_x \cdot \text{sum}(\text{axis} = 0) \longrightarrow$$

$$\frac{e_x}{\sum\limits_{j=1}^{k} e^{z_j}}$$

RNN

IN

$$xW_{ax} + b \longrightarrow \tanh \rightarrow a\, W_{ya} \qquad \hat{y}$$

ACTIVATION

$$+$$

$$aW_{aa}$$

IN

$$b \longrightarrow \text{SOFTMAX}$$
$$+$$

OUT

OUT