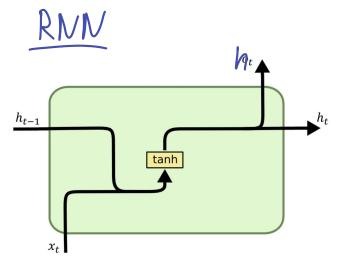
Peryppermuse récipocemu



$$h_{\ell} = \sigma(W_{\ell}h_{\ell-1}, X_{\ell}] + b_{h})$$

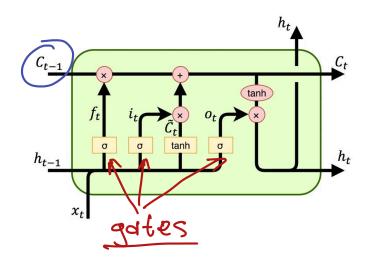
$$\mathcal{O}_{\ell} = \sigma_{\sigma}(W_{\sigma}h_{\ell} + b_{\sigma})$$

$$P_{\ell} = Softmax(\mathcal{O}_{\ell})$$

$$\nabla_{h_{\ell-n}} L(p_{\ell}, y_{\ell}) = \frac{\partial L(p_{\ell}, y_{\ell})}{\partial h_{\ell}} \cdot \frac{L(p_{\ell}, y_{\ell})}{\partial h_{i-1}} = -\frac{\sum [y_{\ell}=k] \log p_{\ell k}}{k = 1}$$

zomy rabyui. Yrogue vem.

LSTM (1997)



$$f_{\ell} = \sigma(W_{\ell}[h_{\ell-1}, X_{\ell}] + b_{\ell})$$

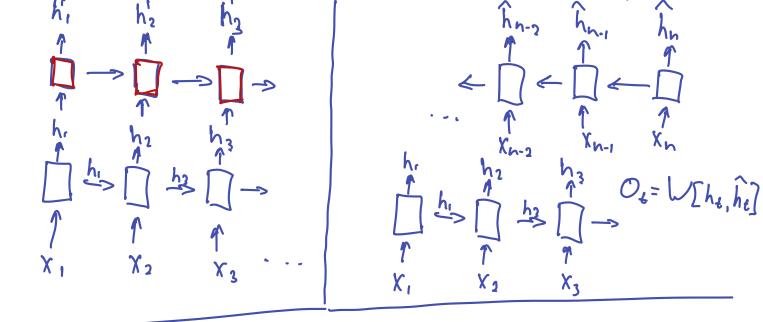
$$i_{\ell} = \sigma(W_{\ell}[h_{\ell-1}, X_{\ell}] + b_{\ell})$$

$$O_{\ell} = \sigma(W_{0}[h_{\ell-1}, X_{\ell}] + b_{0})$$

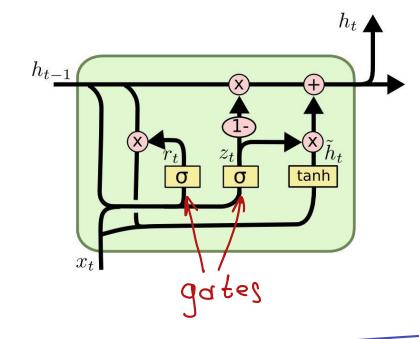
$$C_{\ell} = t_{\alpha}h(W_{c}[h_{\ell-1}, X_{\ell}] + b_{c})$$

$$C_{\ell} = f_{\ell} \circ C_{\ell-1} + i_{\ell} \circ C_{\ell}$$

$$h_{\ell} = O_{\ell} \circ t_{\alpha}h(C_{\ell})$$

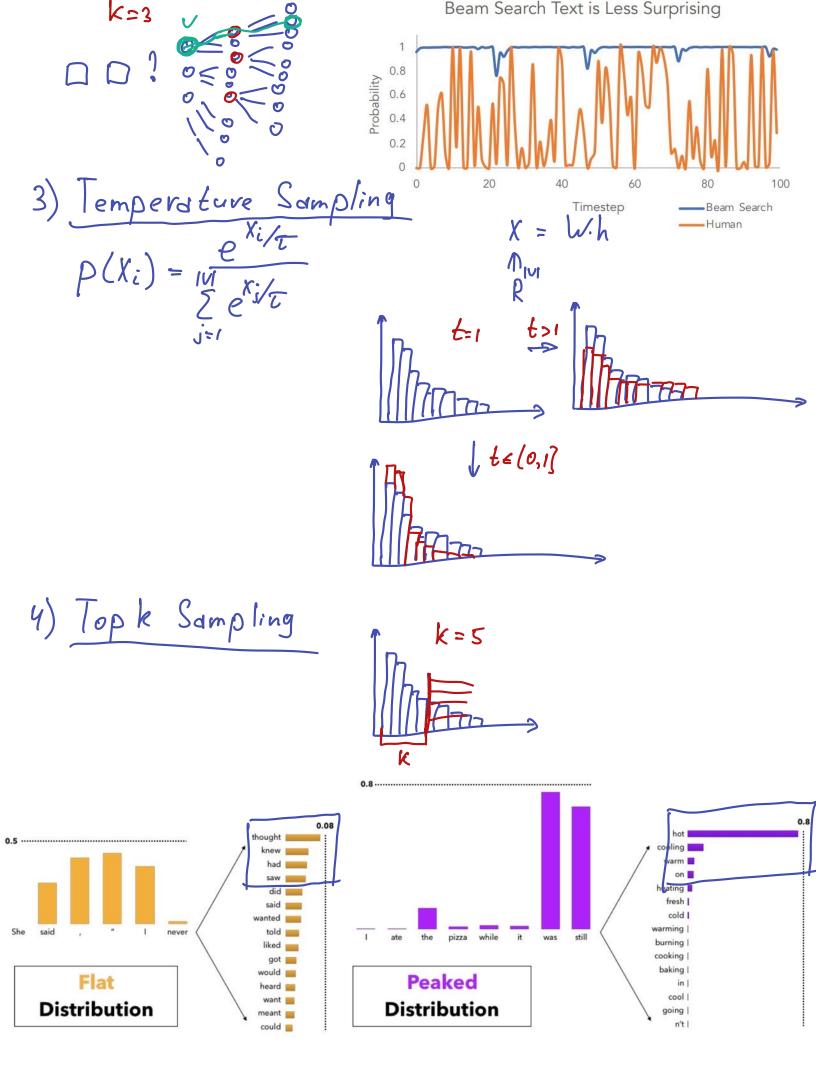


GRU (2014)



Kax cerun supabant?

- 1) Greedy Sepell mover e nació. Beposmusemble
- 2) Bedm-Search Karogeen noclégobarellement moveredob c naud. Beposimnociment



5) Nucleus Sampling (2020)

(TopP)

Depen men ruche movereb,

\$\sum_{P(x|x_{\cute{t}})\geq P} P \quad \text{cynna bep-men nomenux } p\$

\$\rightarrow \gamma \cdot 0.95\$

