



dergth of sonunce =) 
$$\frac{50 \text{ bords}}{1 \cdot 1}$$
 $t = 1$ 
 $\frac{\partial h}{\partial w_{hold}} = \begin{bmatrix} \frac{\partial L}{\partial y} & \frac{\partial \hat{y}}{\partial 0_{50}} & \frac{\partial 0_{50}}{\partial 0_{49}} & \frac{\partial 0_{49}}{\partial 0_{49}} & \frac{\partial 0_{2}}{\partial w_{hold}} \end{bmatrix} + \frac{\partial L}{\partial w_{hold}} = \frac{\partial L}{\partial y_{50}} & \frac{\partial 0_{49}}{\partial 0_{49}} & \frac{\partial 0_{49}}{\partial w_{hold}} & \frac{\partial 0_{2}}{\partial w_{hold}} + \frac{\partial U}{\partial w_{hold}} & \frac{\partial U}{\partial w_{hold}$ 

t=1 =) The word is not participating to update the weights

Yaluc.

Chain Rue is Big

$$\frac{\partial L}{\partial w_{hold}} = \frac{\partial L}{\partial \hat{y}} \cdot \frac{\partial \hat{y}}{\partial o_{ro}} + \frac{\partial o_{ro}}{\partial w_{hold}} + \frac{1}{2}$$

$$\frac{1}{2}$$

- 1) Rem, Krany Rom ->
- 2) LSTM RNN -> Long Short term Minnong RNN ? => Simple RNN
- B GRU RNN ->