

Machine Translation 2

Neural Machine Translation

CS 287

Quiz:

Neural Machine Translation

$$p(w^t|w^s) = p(w_i^t|w^s, \theta)$$

Babbler



$$p(w_i | w_1, \dots, w_{i-1}) = \text{softmax}(RNN()) = \hat{y}_{w_i}$$

True Encoder-Decoder

Compute a single vector \mathbf{x} representing the source.

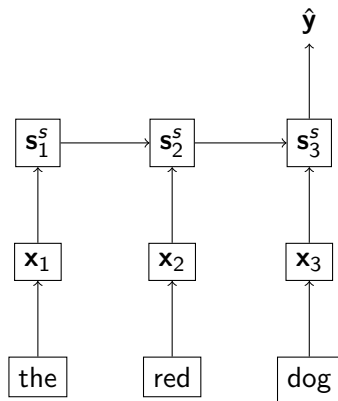


$$p(w_i | w_1, \dots, w_{i-1}, \mathbf{x}) = \hat{y}_{w_i}$$

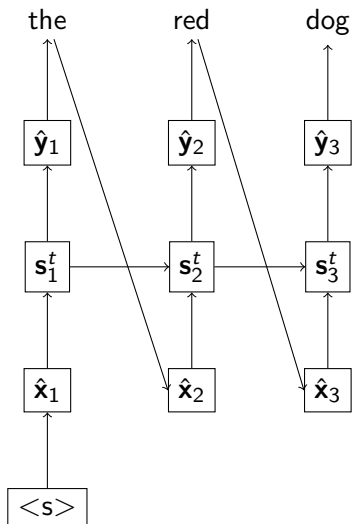
Compute output \mathbf{y}

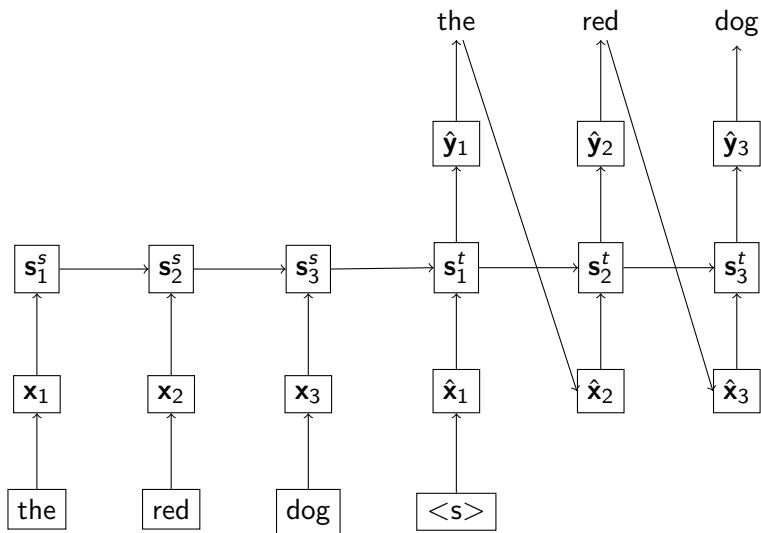
Bottleneck here **x** full representation of source.

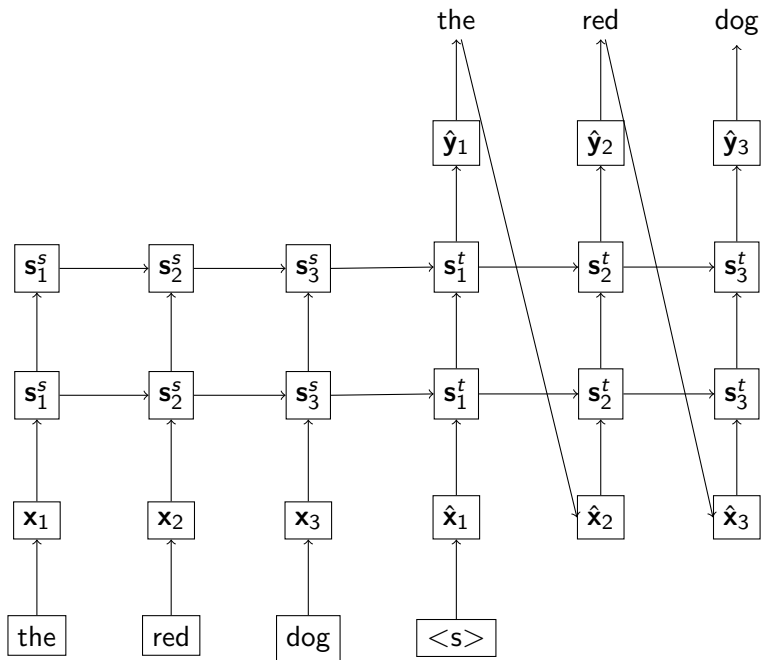
Acceptor



Babbler







Neural Machine Translation

