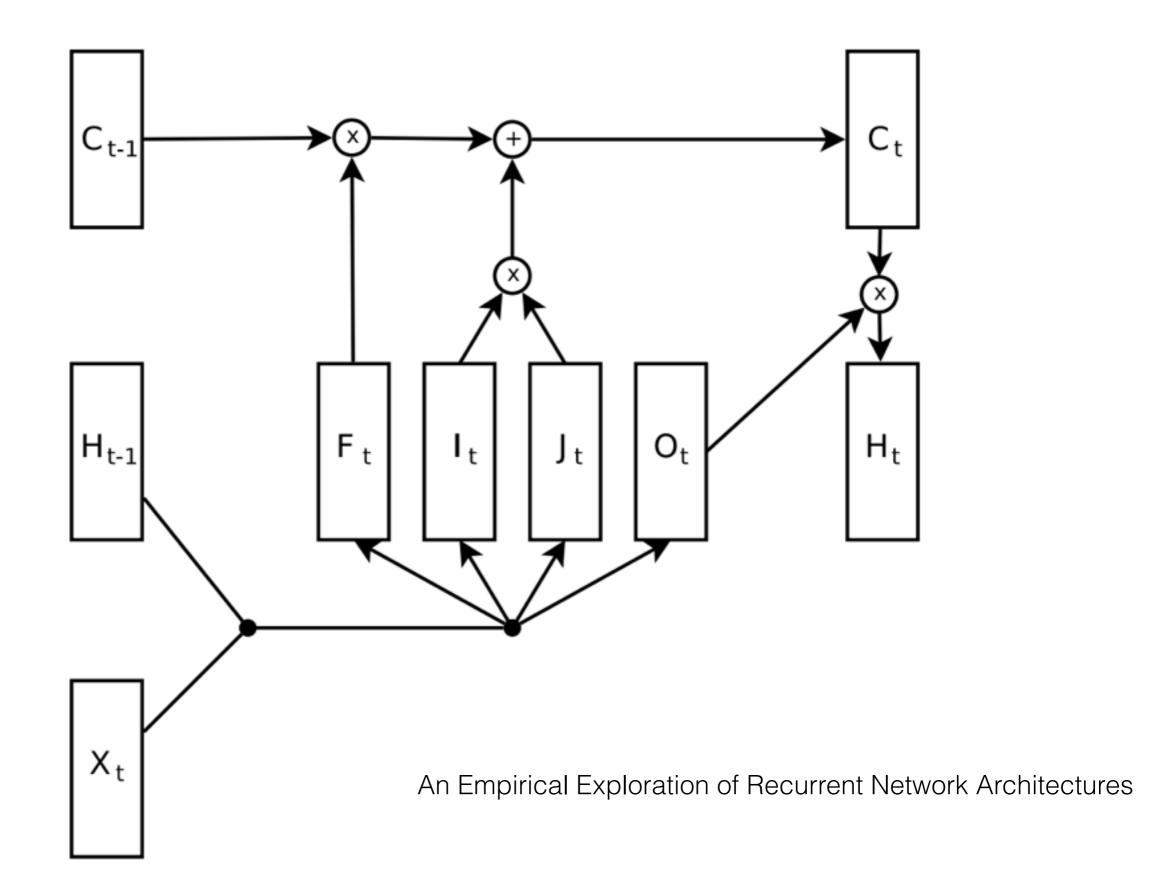
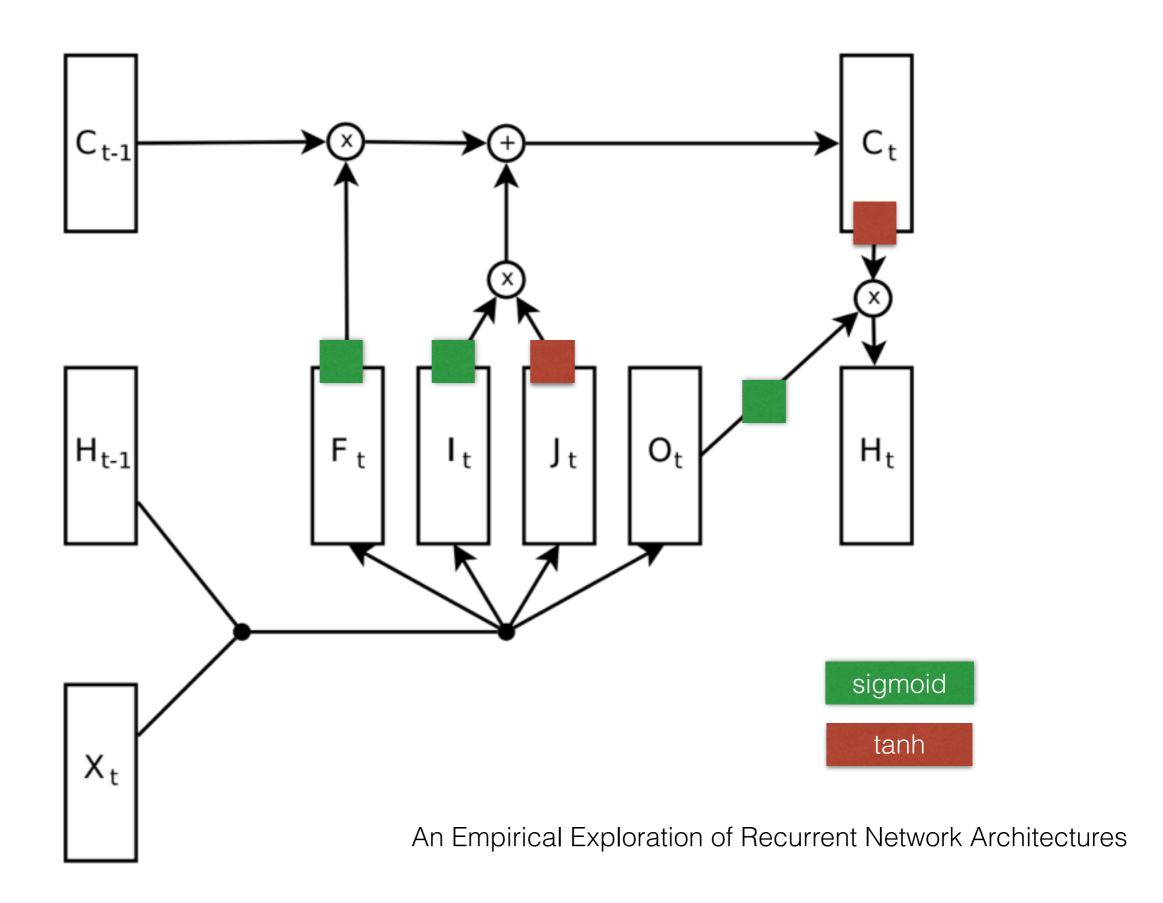
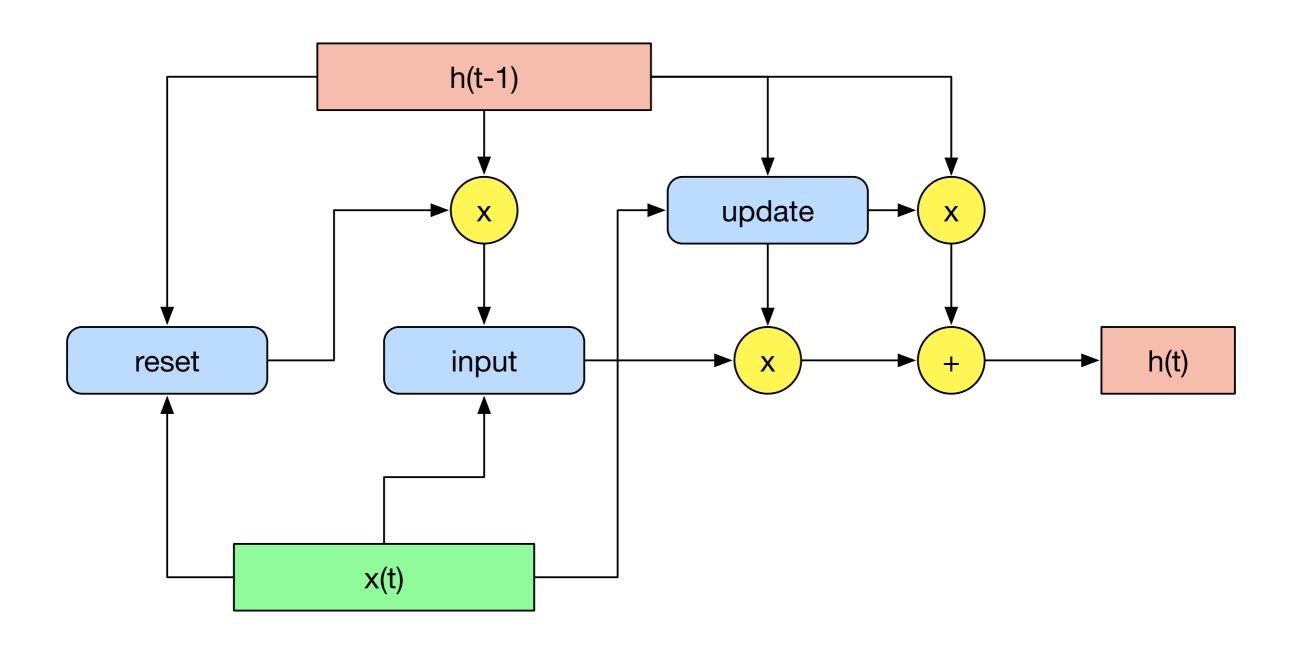
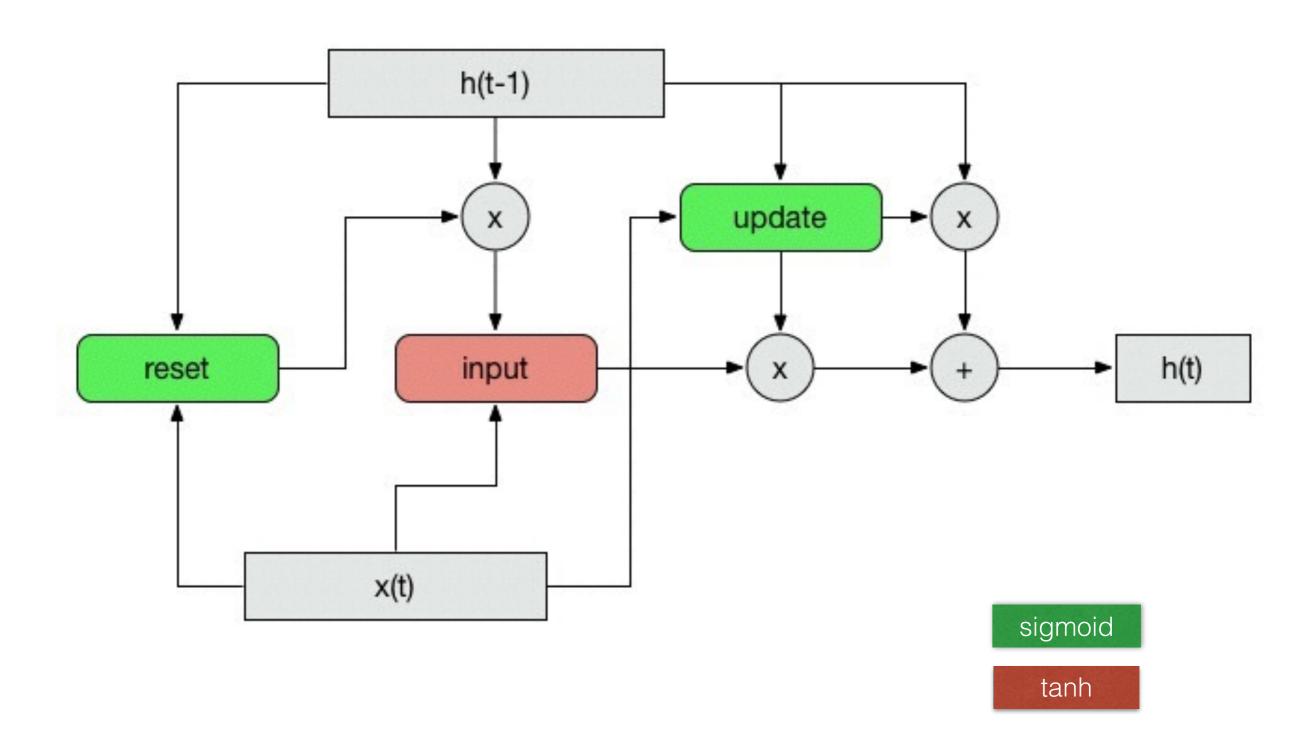
# RNN Encoder-Decoder Model and Implementation

Shi Feng Zhirui Zhang

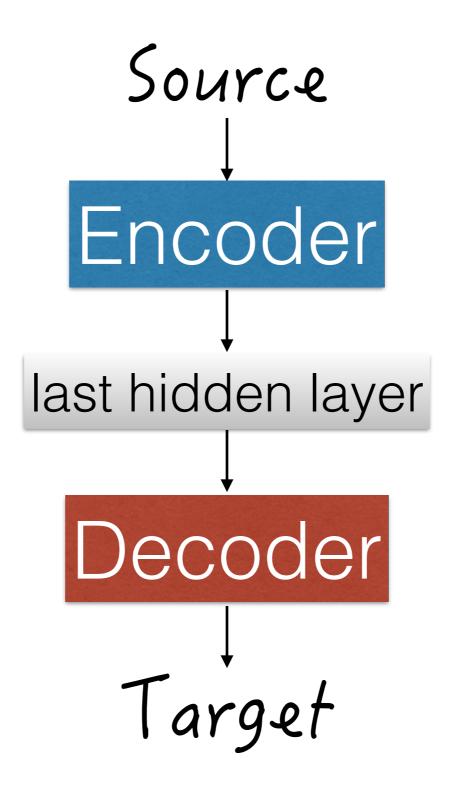




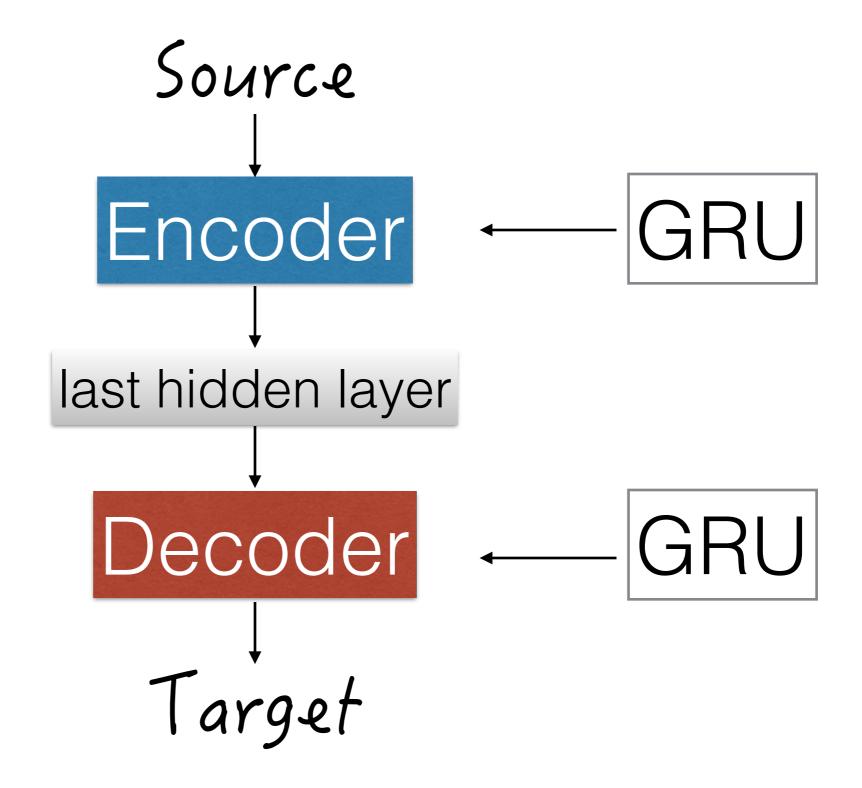


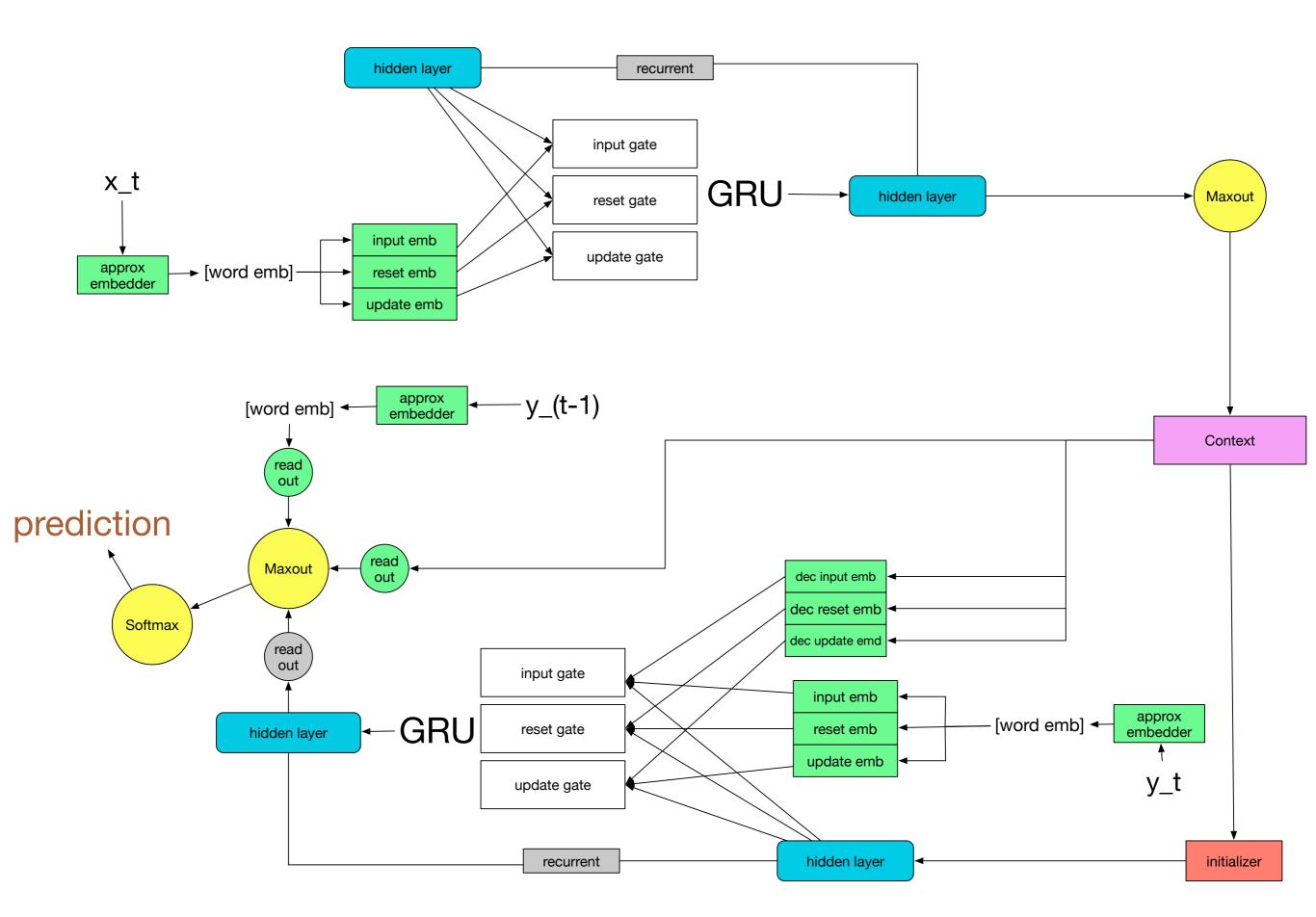


#### RNN Encoder-Decoder

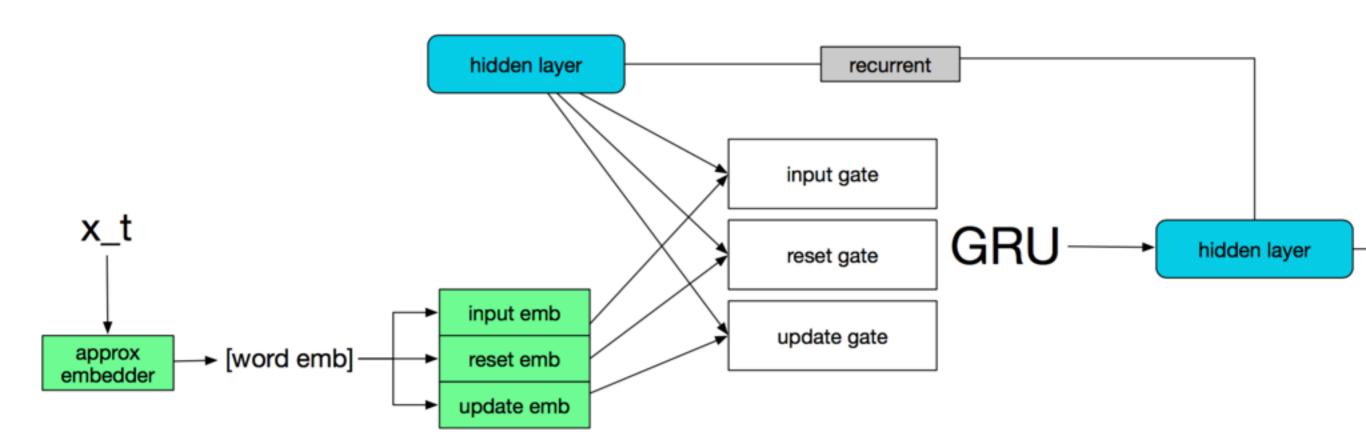


#### RNN Encoder-Decoder

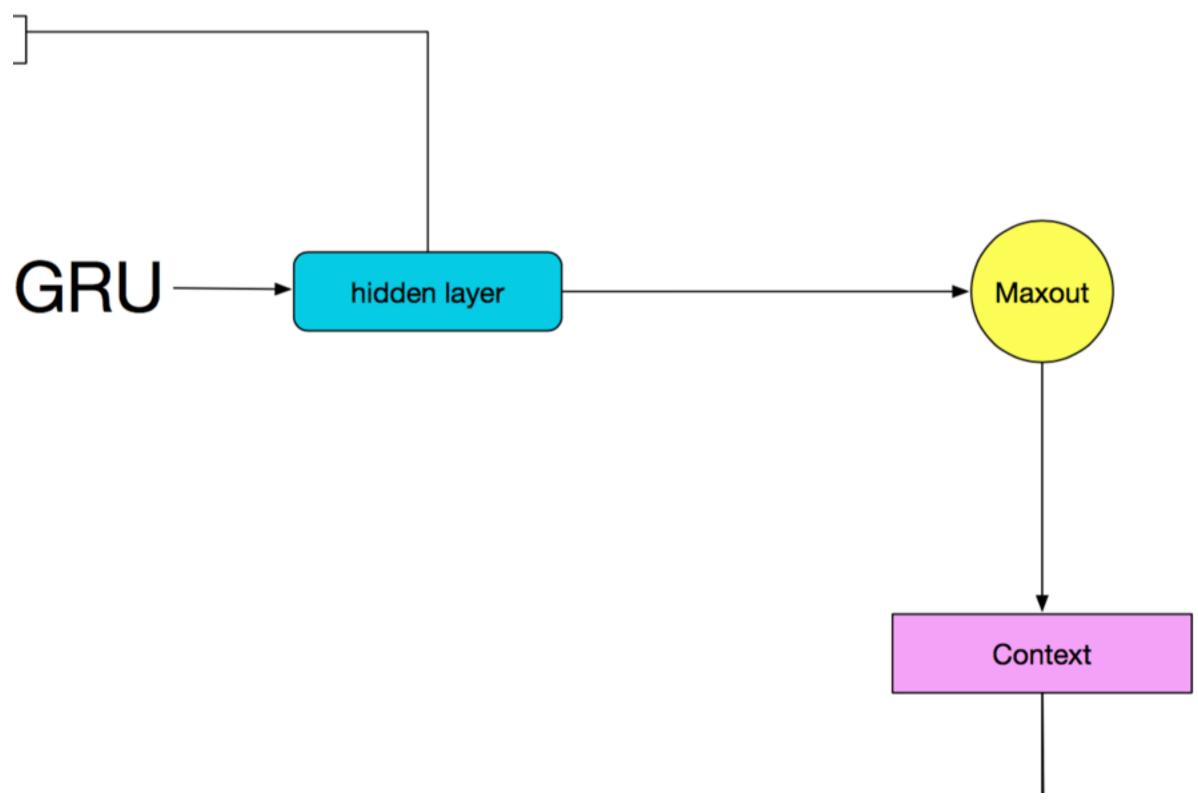




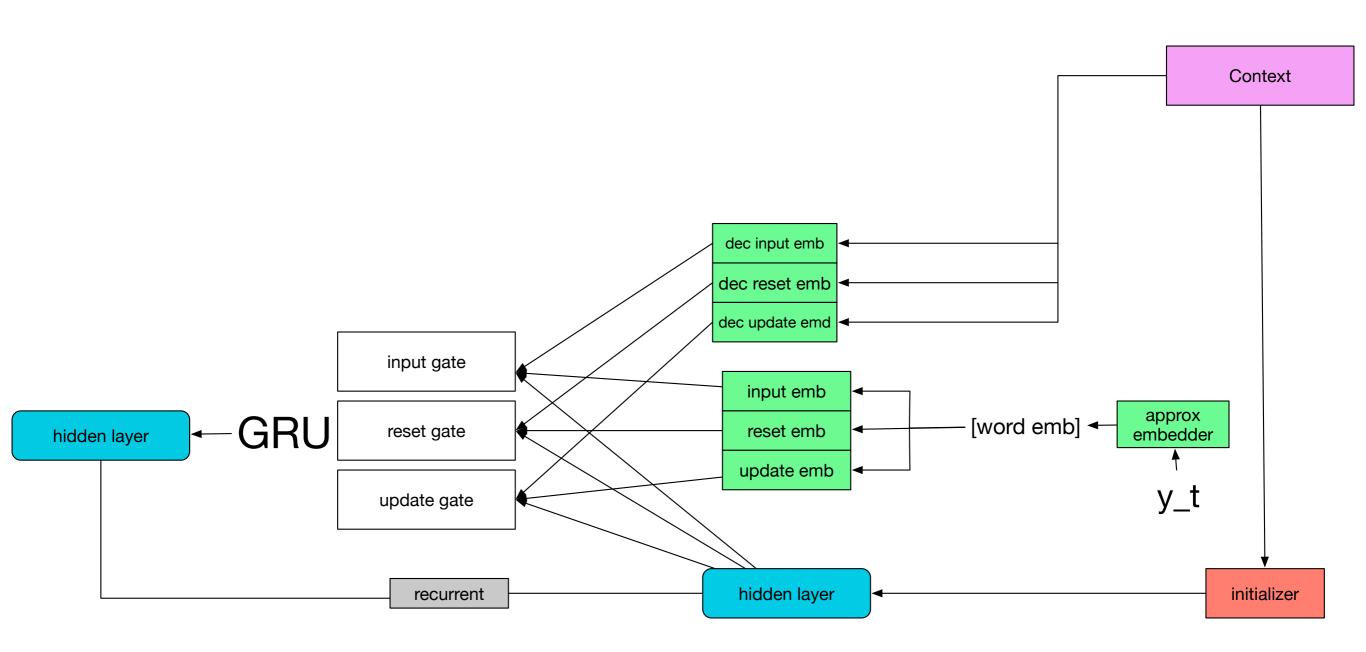
#### Encoder



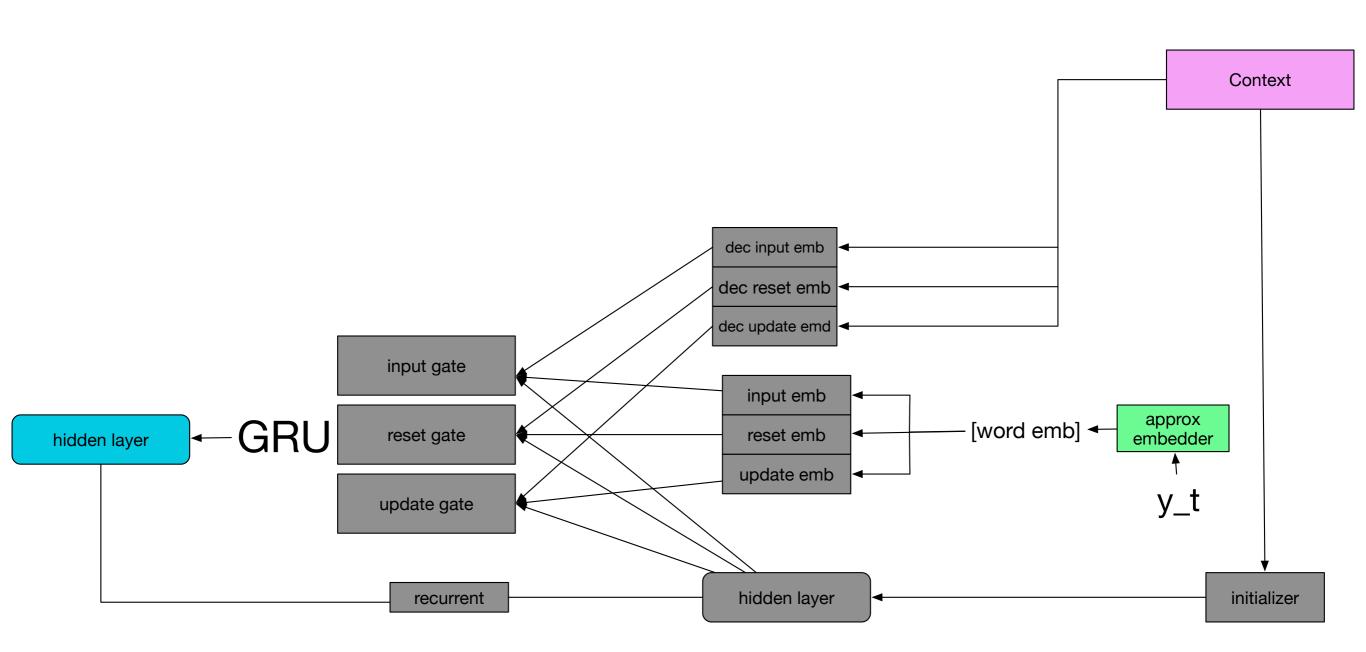
#### From Encoder to Context



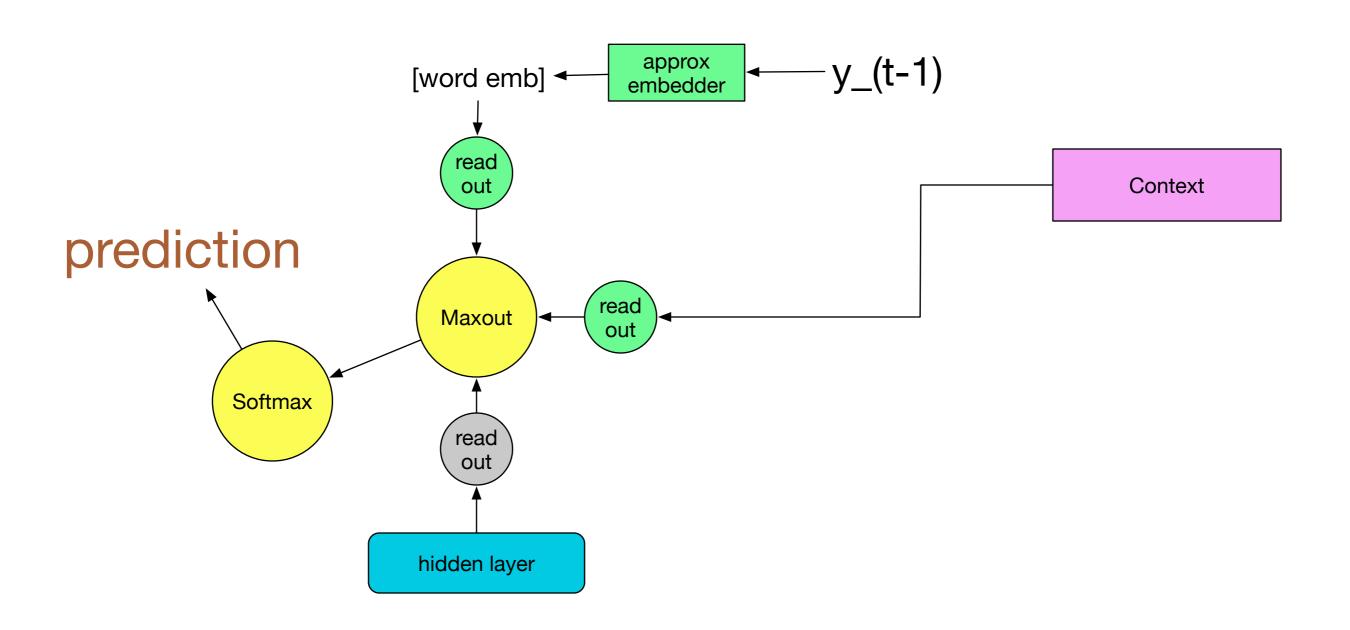
### Decoder

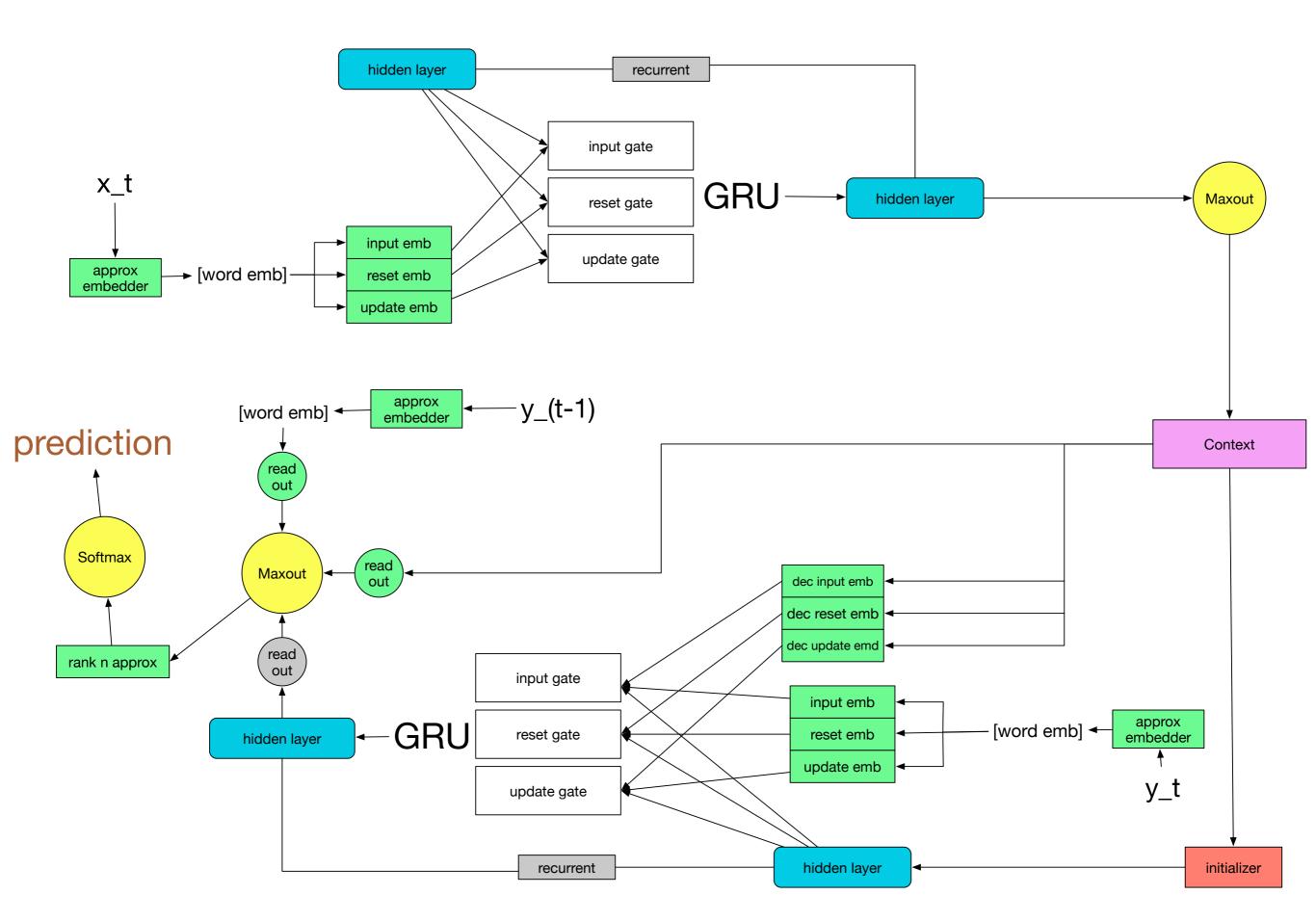


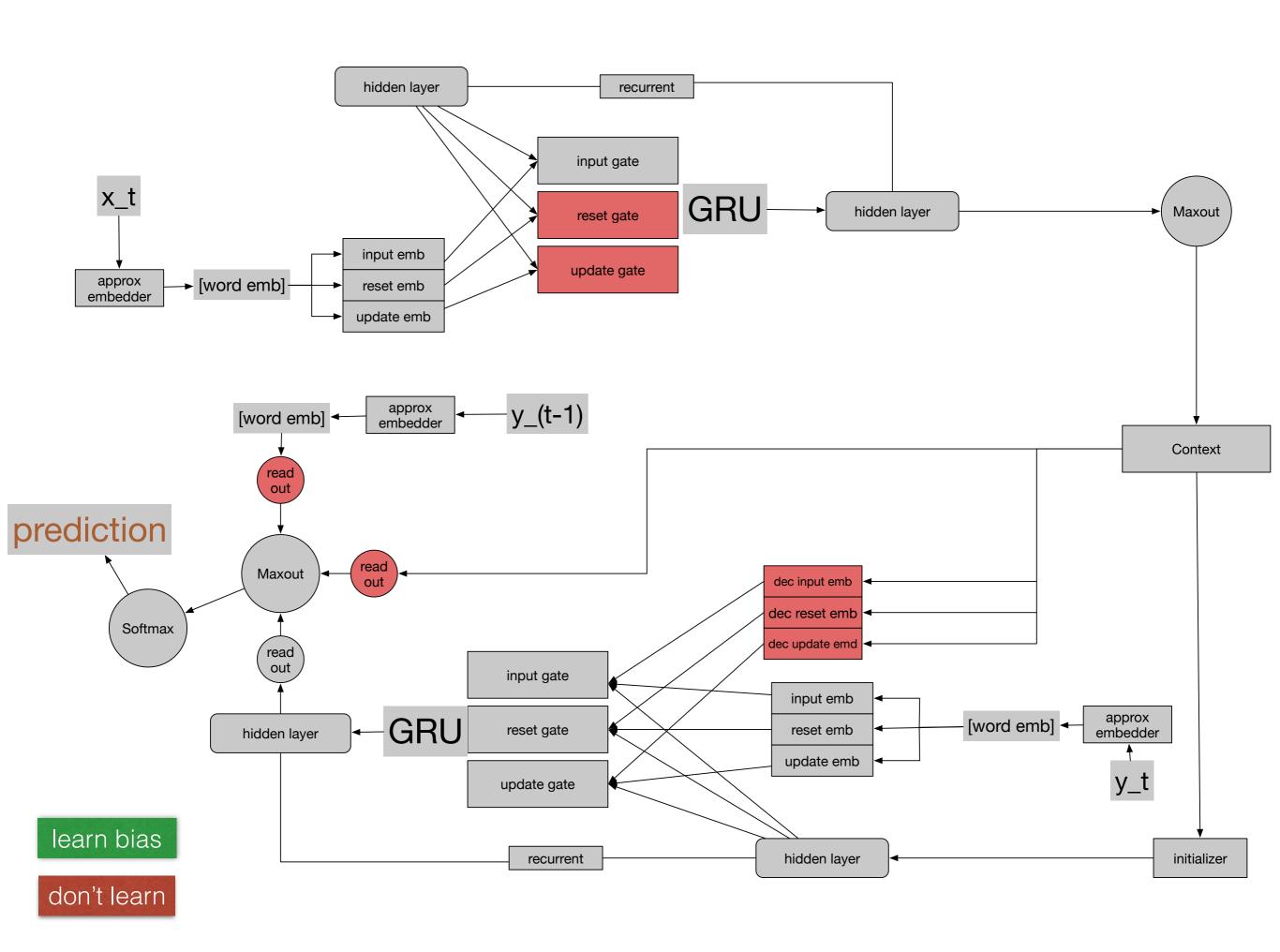
# From Decoder to Output



# From Decoder to Output







#### Variations & Extensions

- Forward & backward RNN, attention mechanism
  - Neural Machine Translation by Jointly Learning to Align and Translate
- Replace GRU with LSTM
  - Sequence to Sequence Learning with Neural Networks
- Translate image to language
  - Show and Tell: A Neural Image Caption Generator
  - Show, Attend and Tell: Neural Image Caption Generation with Visual Attention