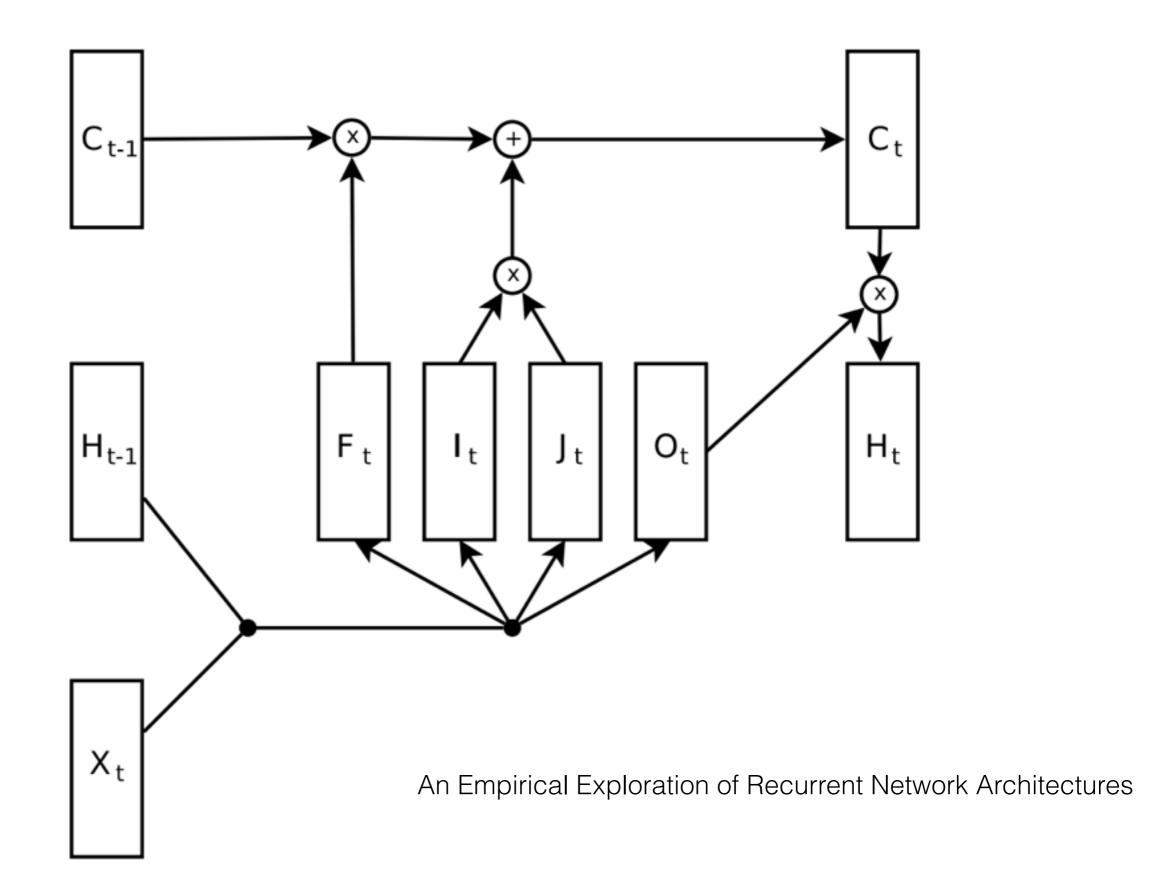
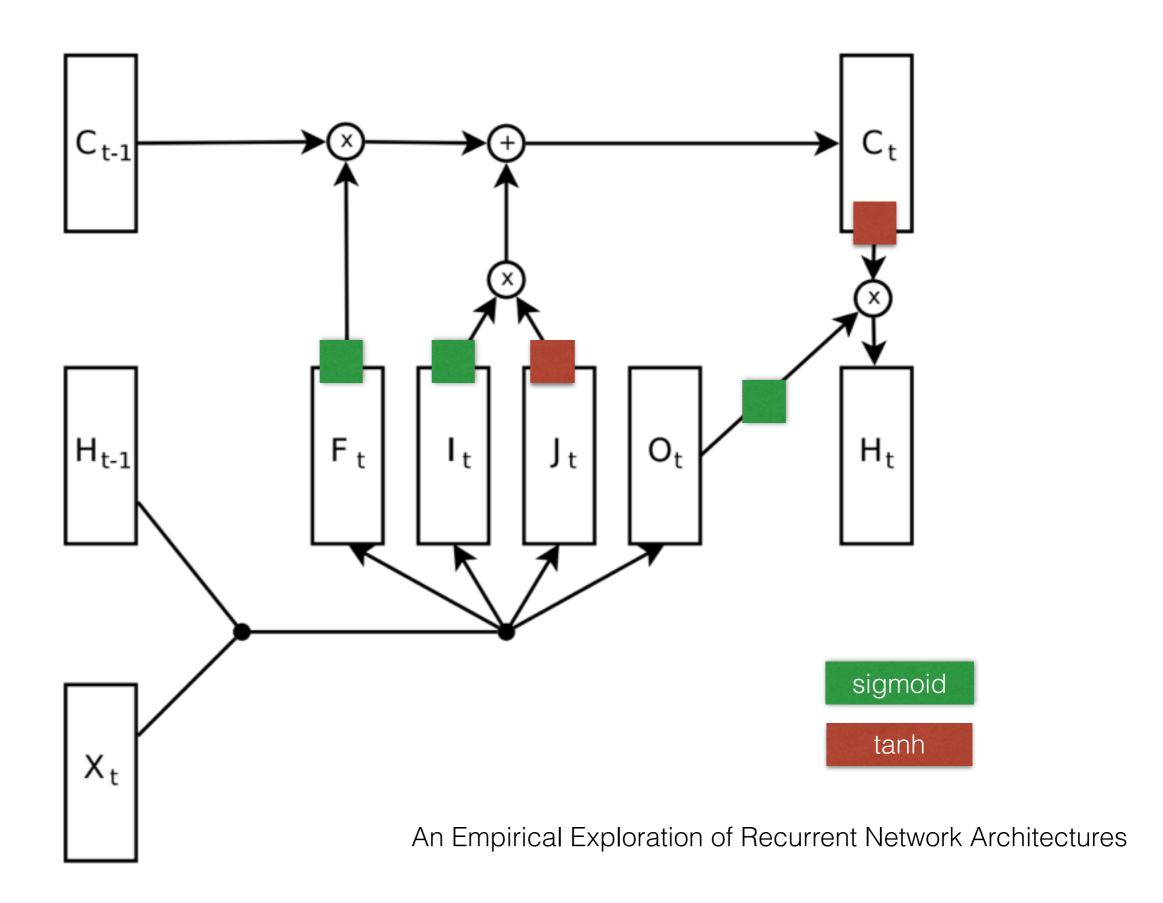
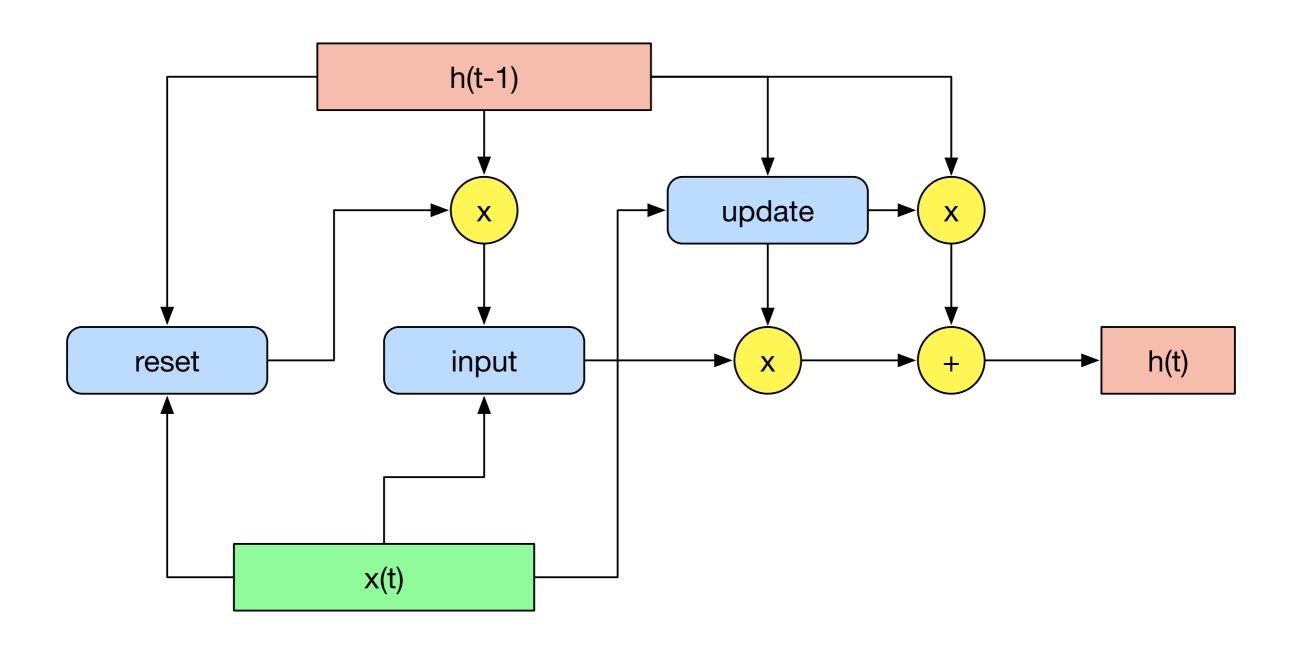
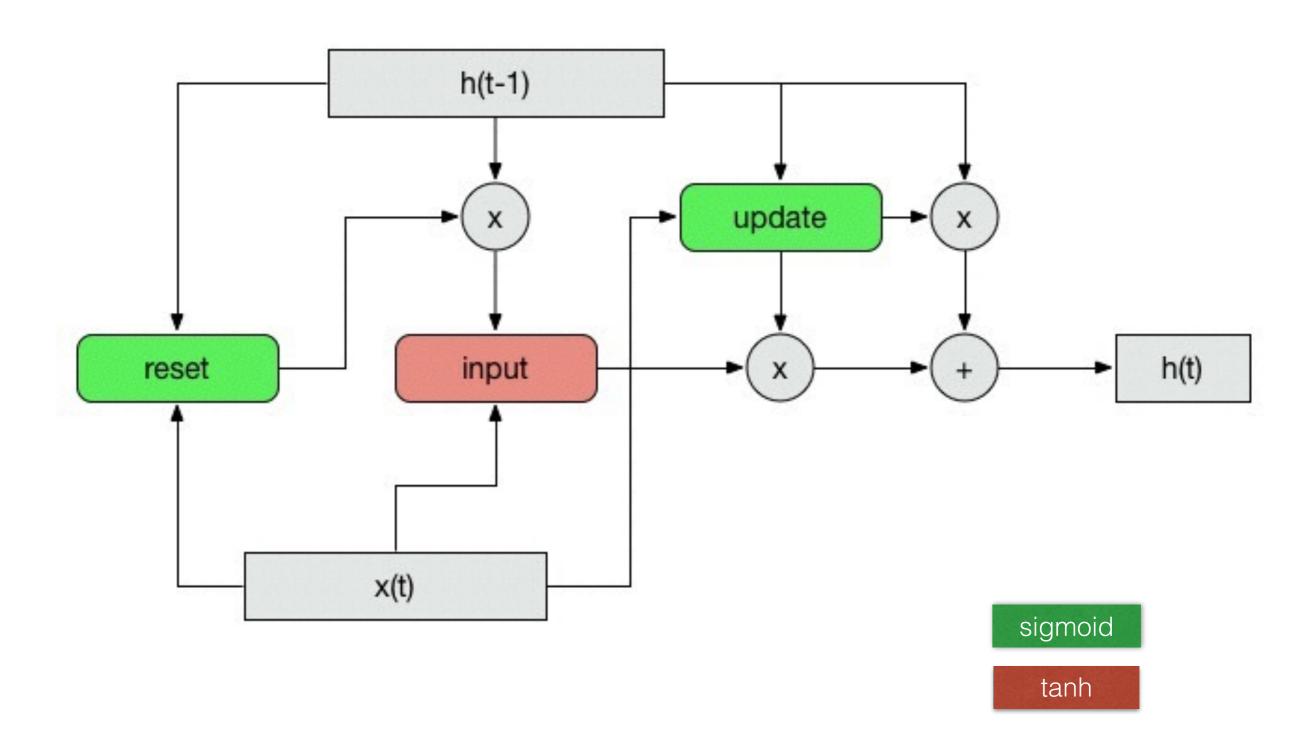
RNN Encoder-Decoder Model and Implementation

Shi Feng Zhirui Zhang

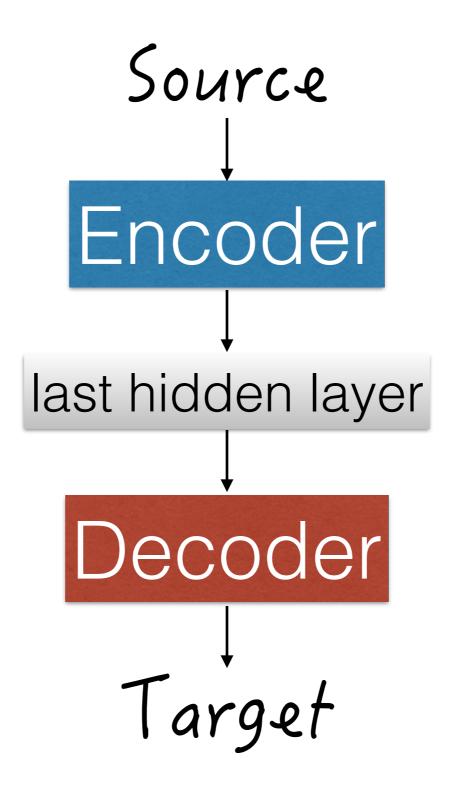




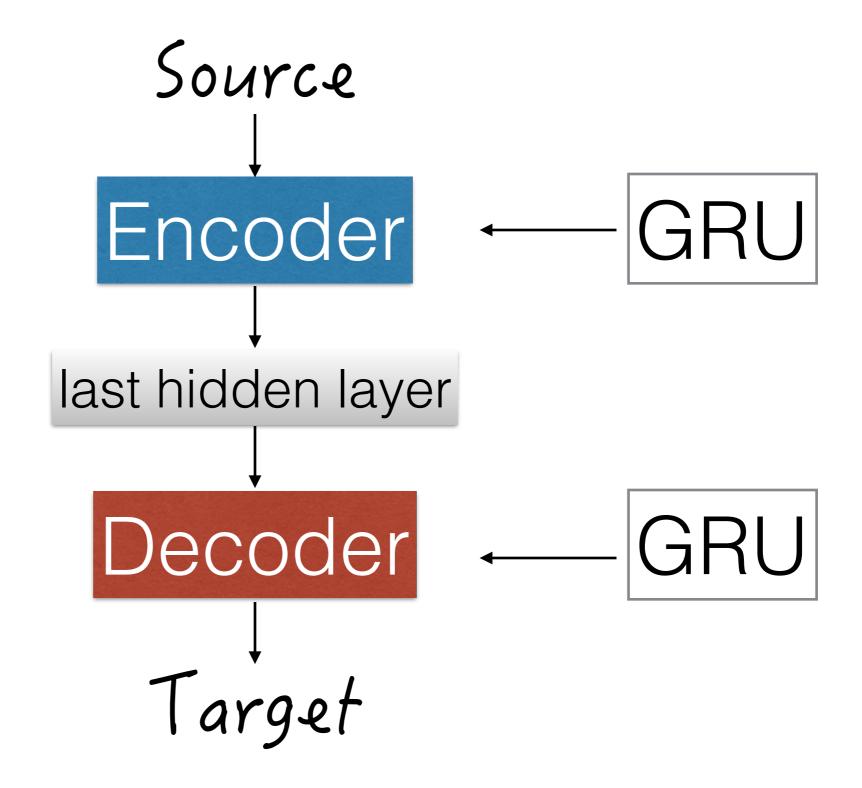


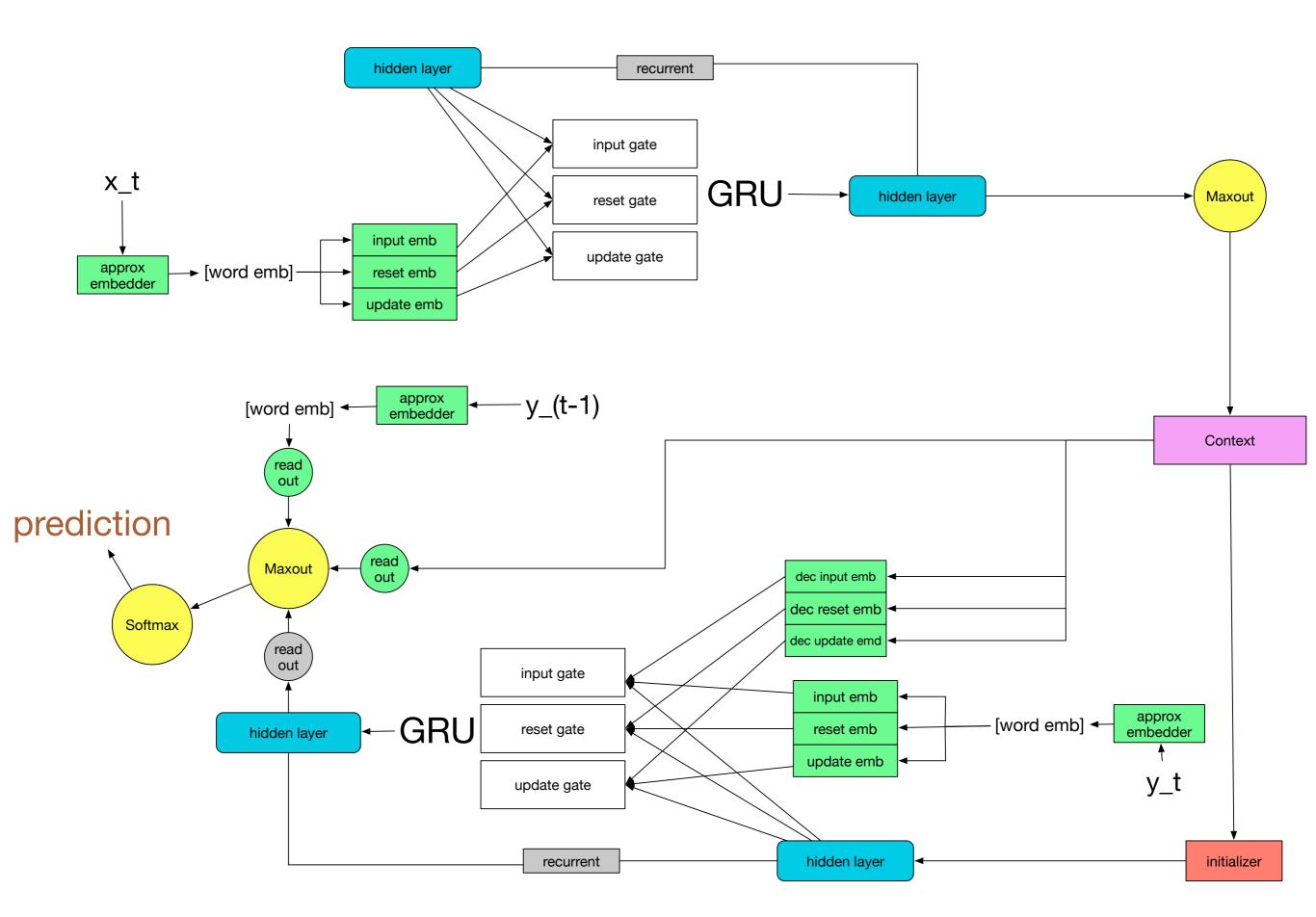


RNN Encoder-Decoder

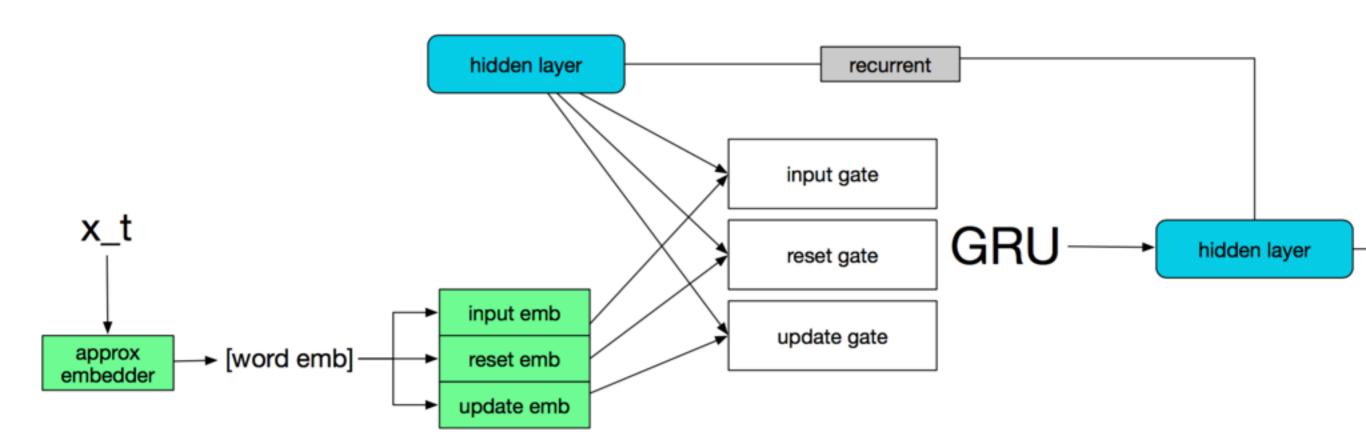


RNN Encoder-Decoder

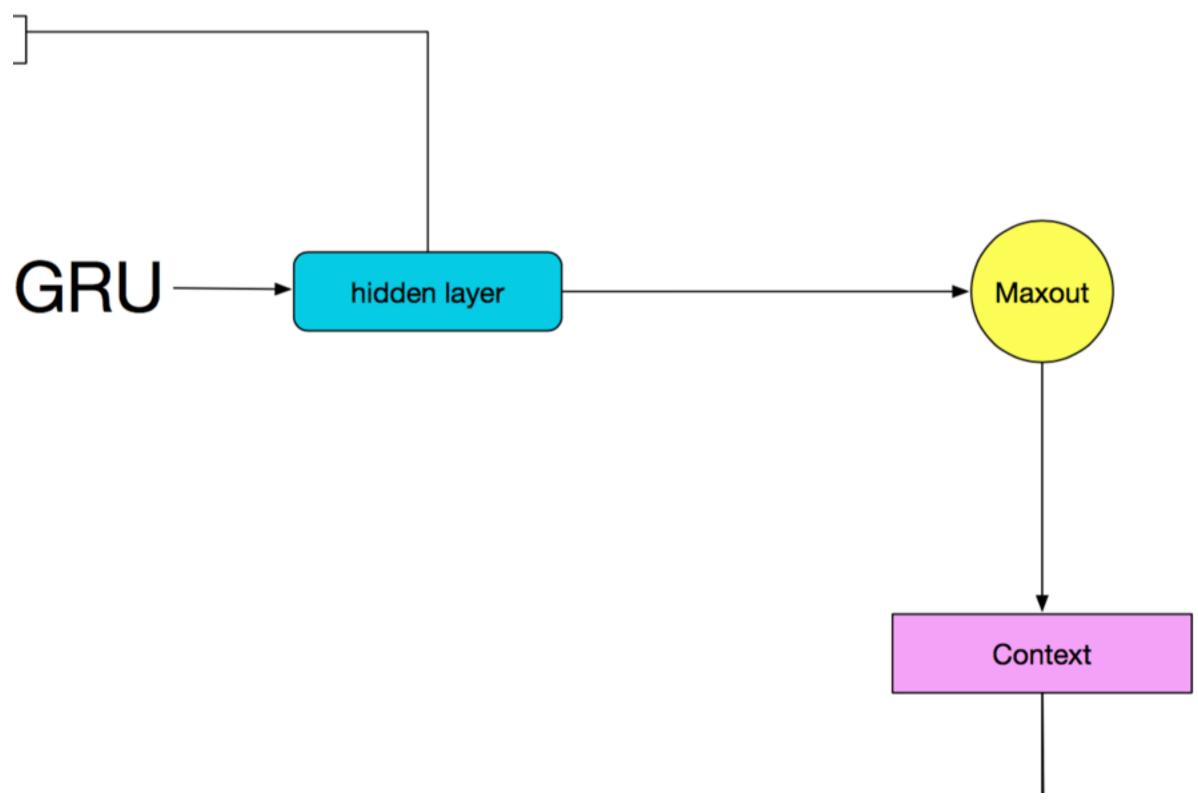




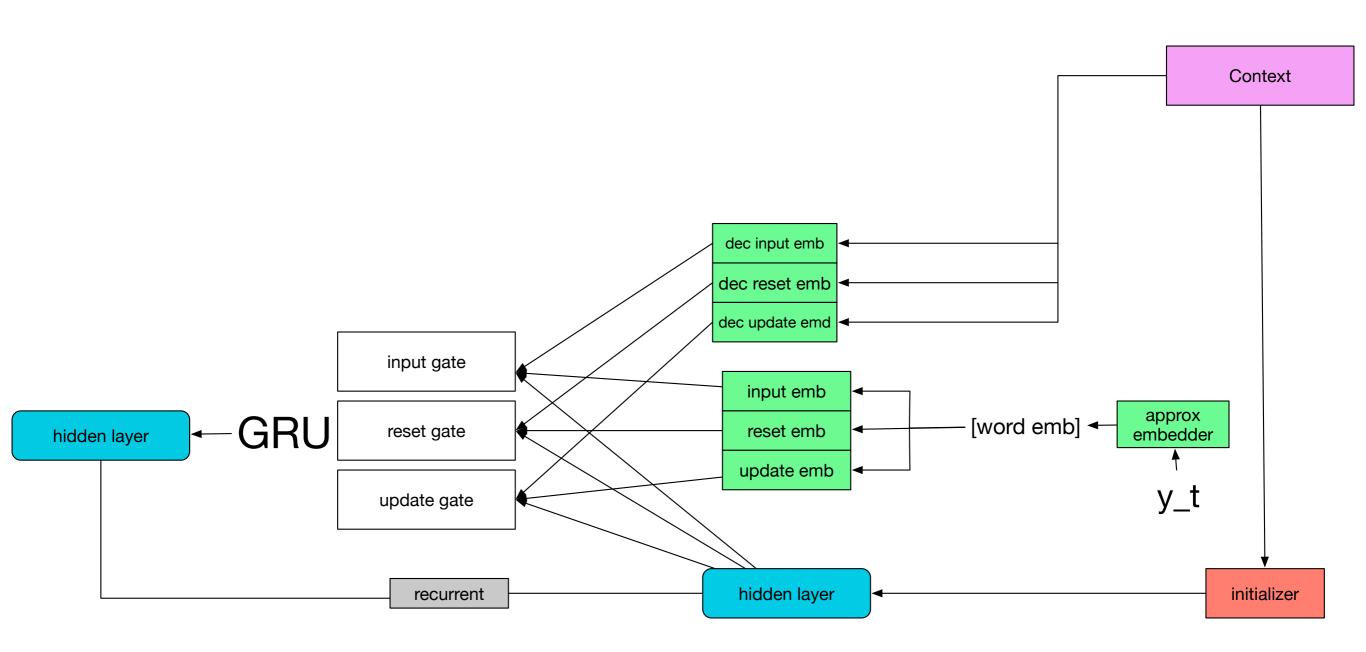
Encoder



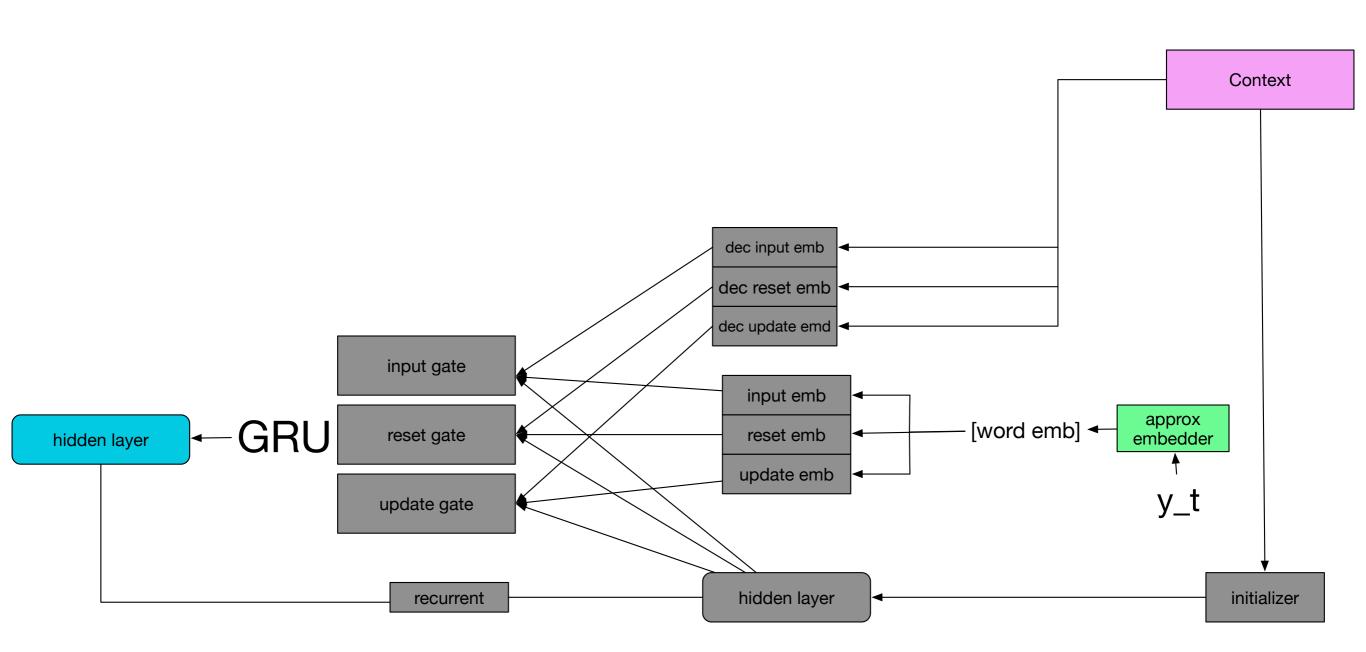
From Encoder to Context



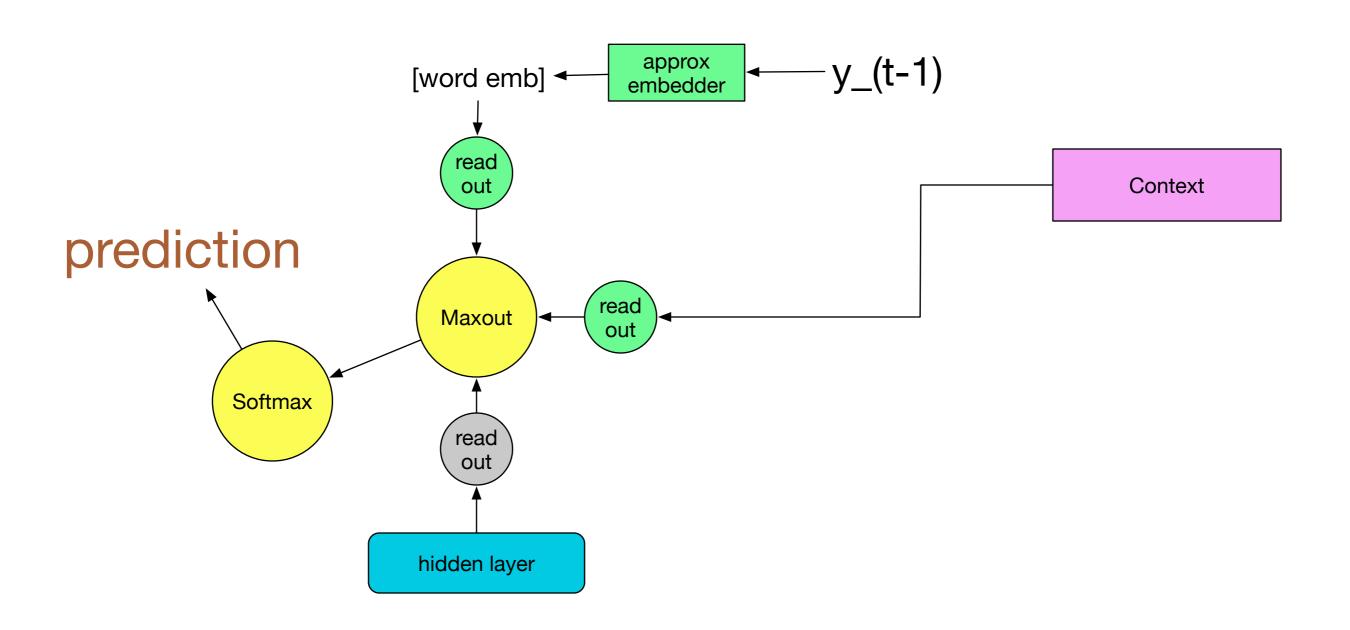
Decoder

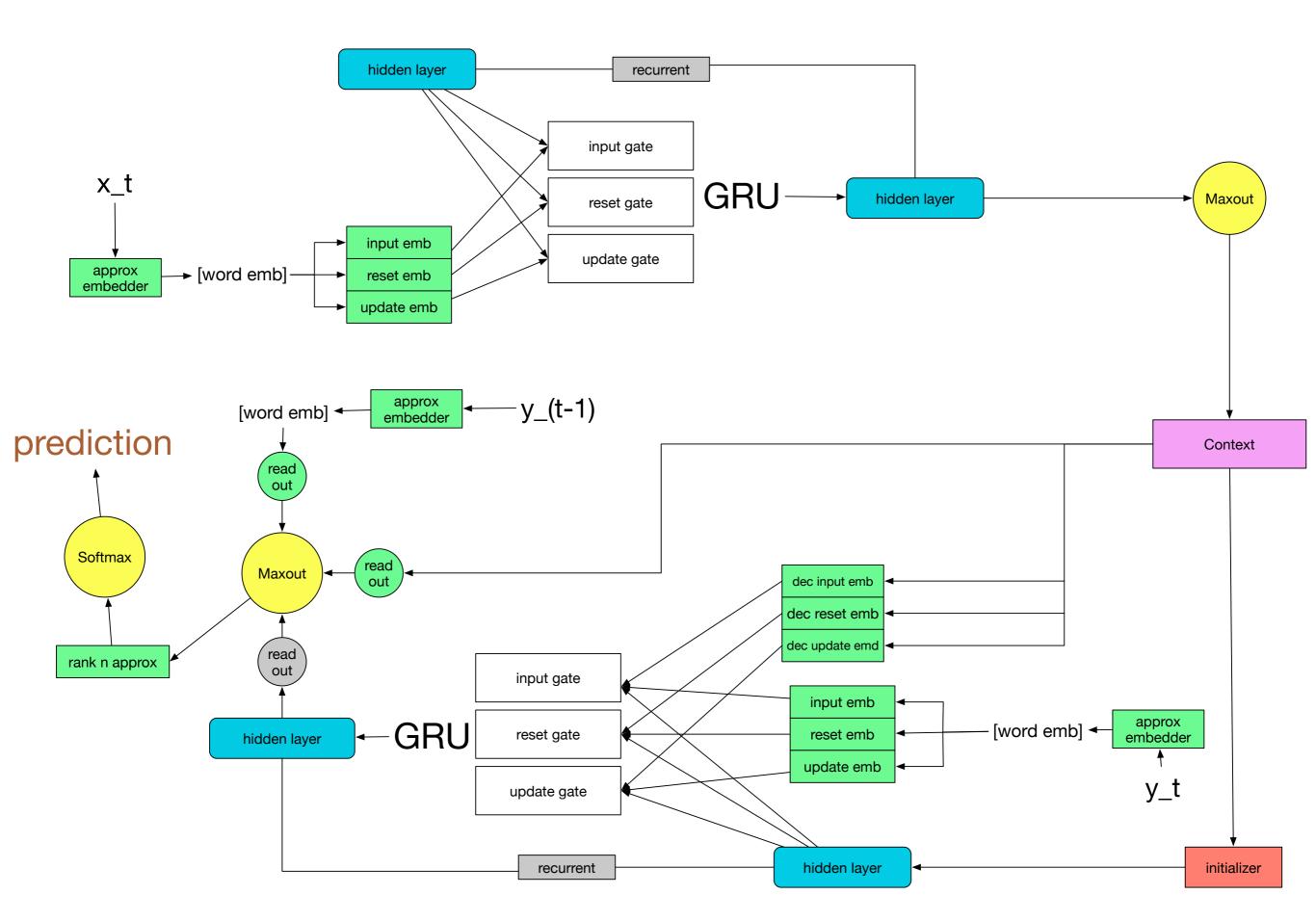


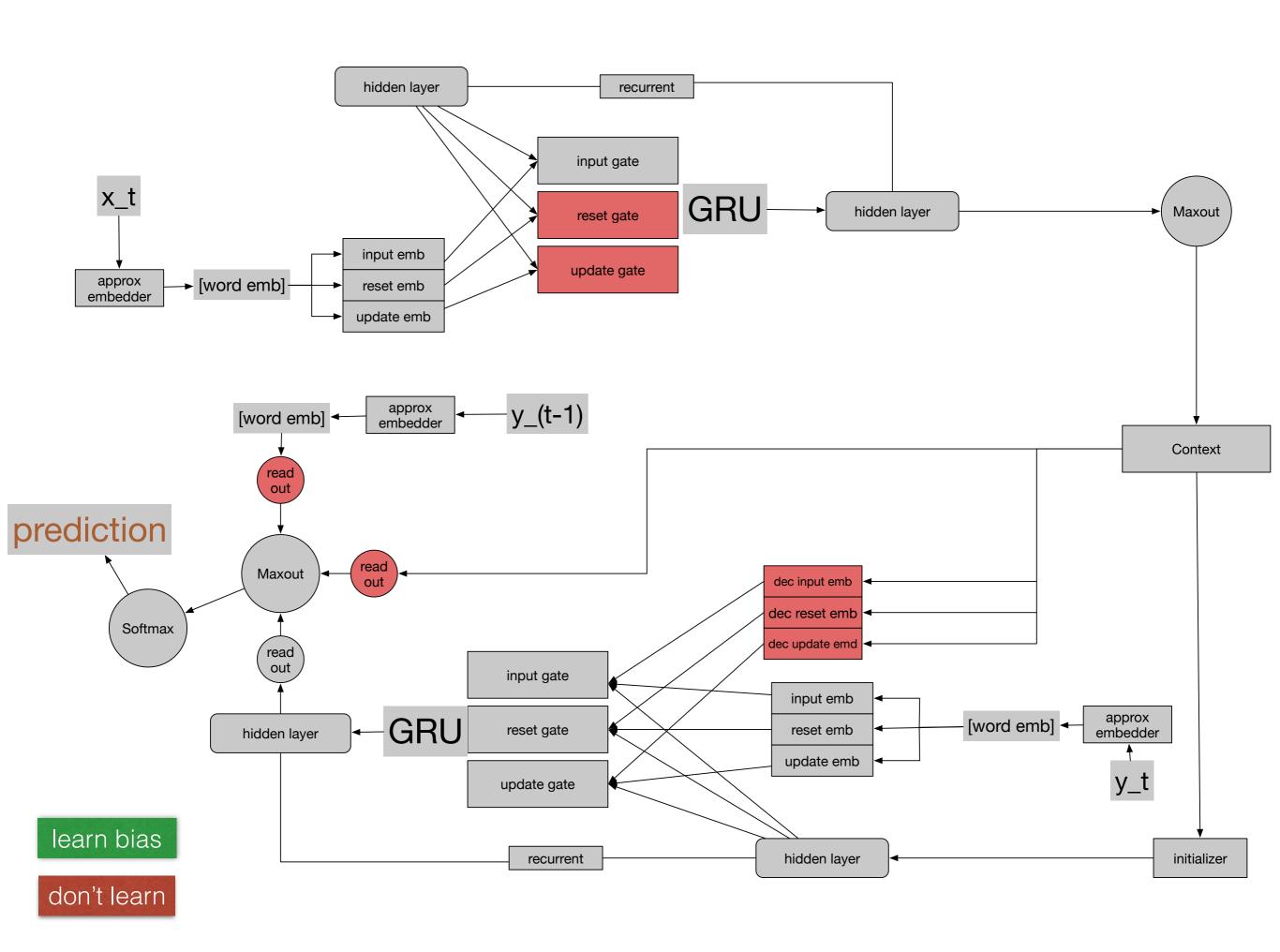
From Decoder to Output



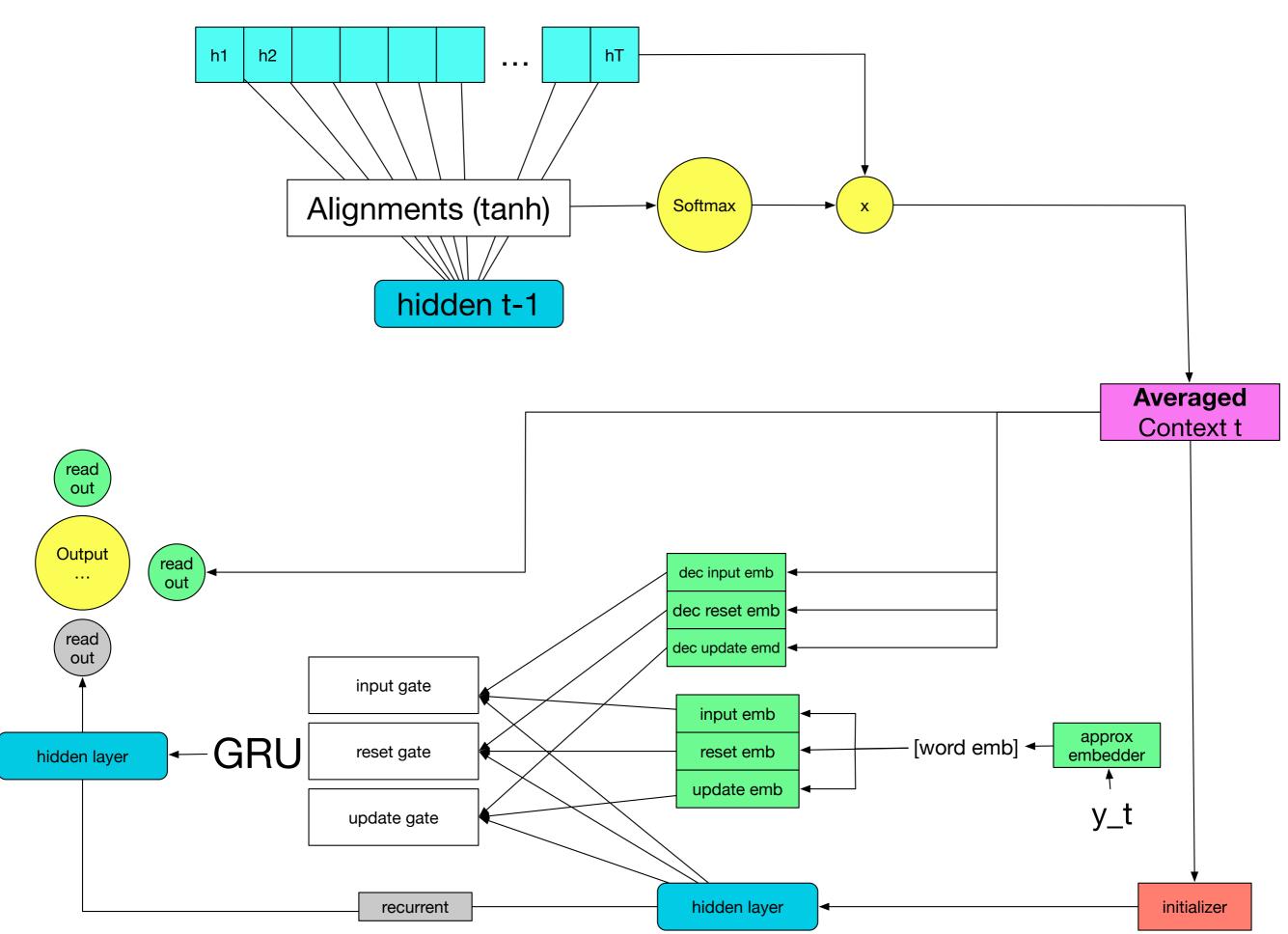
From Decoder to Output







Encoder hidden states



Variations & Extensions

- 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