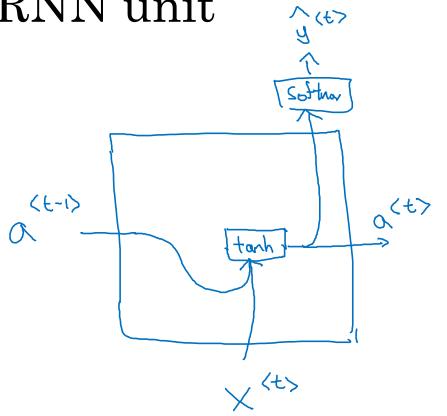


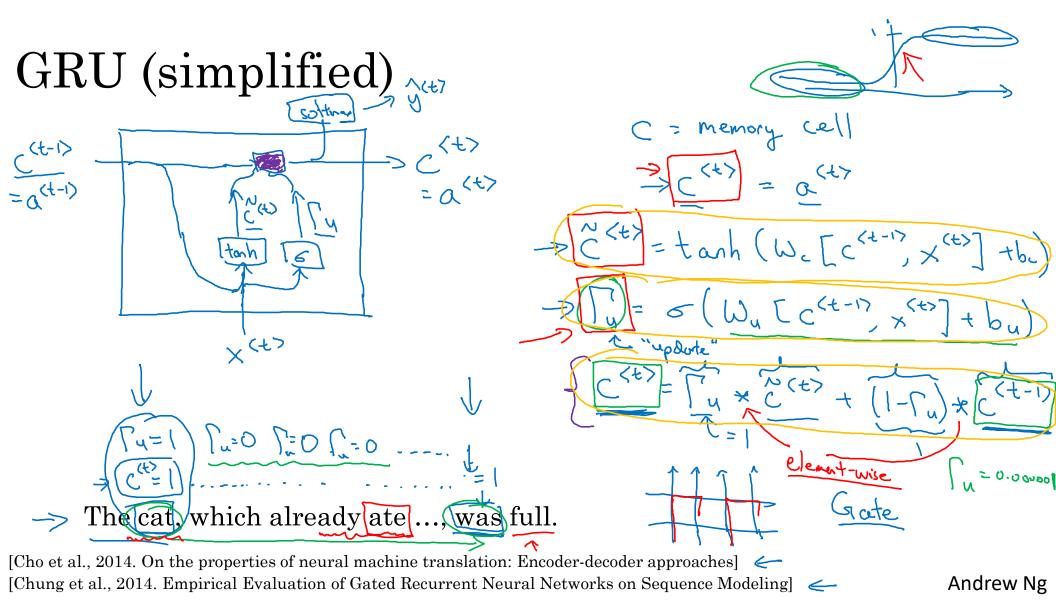
## Recurrent Neural Networks

## Gated Recurrent Unit (GRU)

## RNN unit



$$a^{} = g(W_a[a^{}, x^{}] + b_a)$$



## Full GRU

The cat, which ate already, was full.