



deeplearning.ai

Recurrent Neural Networks

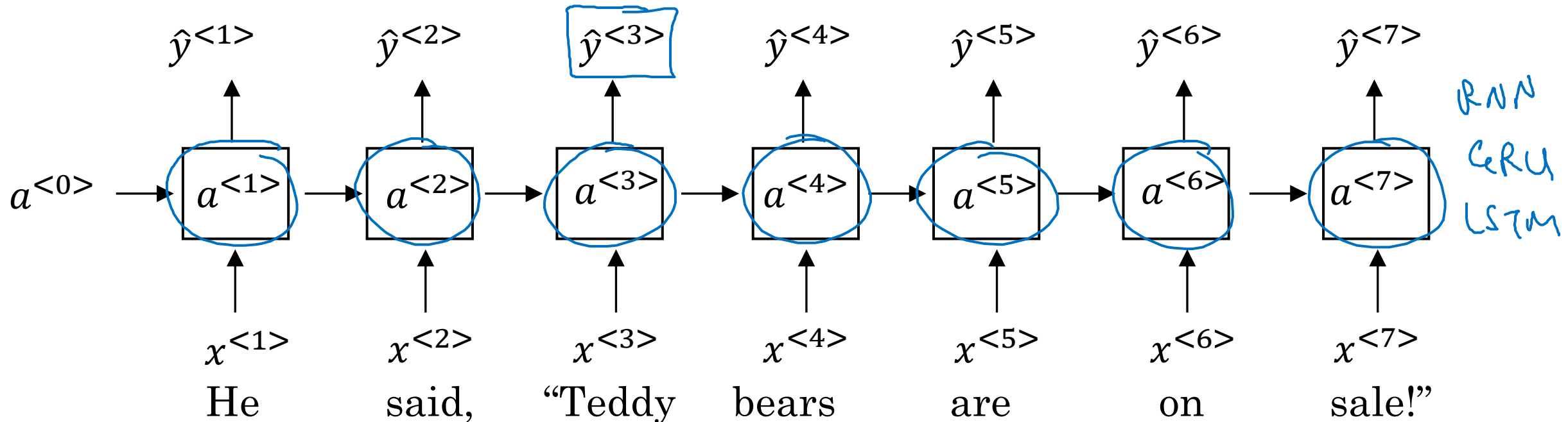
Bidirectional RNN

Take all previous information, current information, and future information into account to make predictions.

Getting information from the future

He said, “Teddy bears are on sale!”

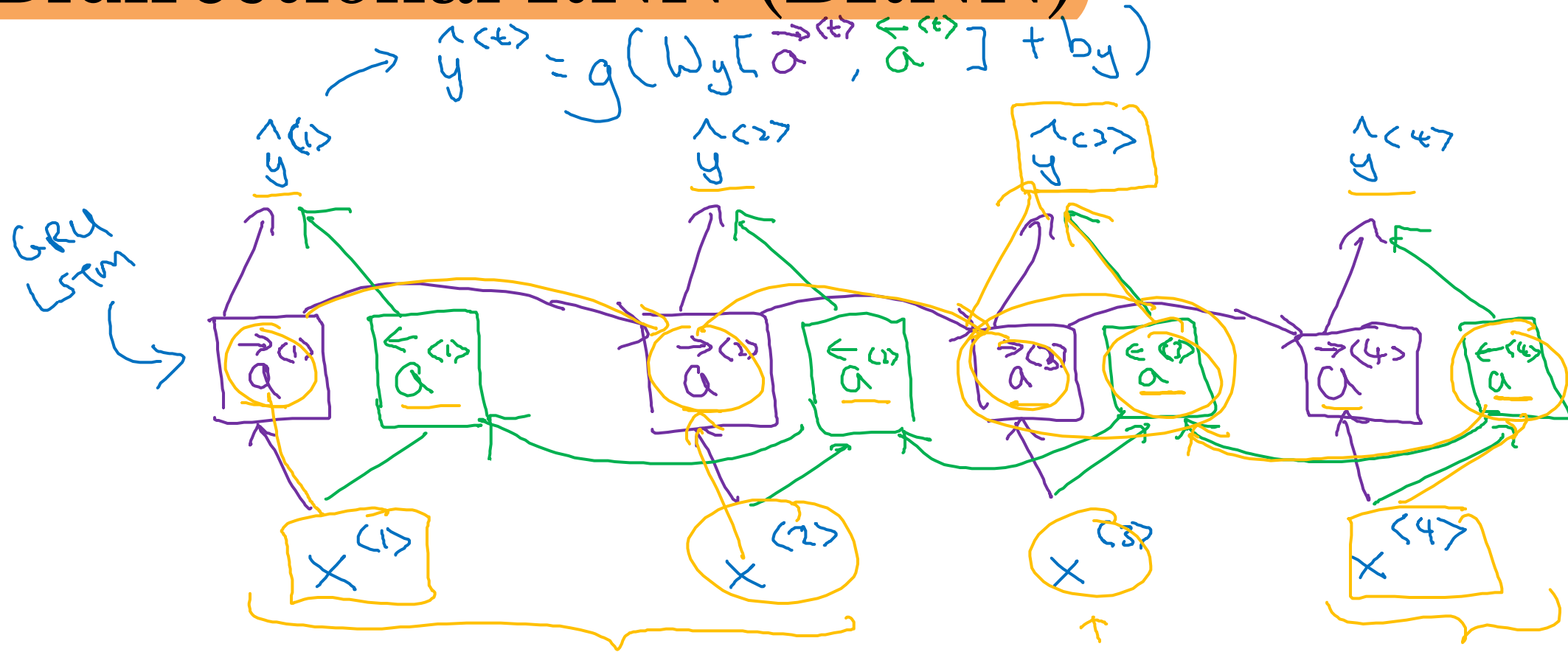
He said, “Teddy Roosevelt was a great President!”



Uni-directional RNN with standard RNN unit / GRU / LSTM unit

It only takes the previous information into account when making predictions

Bidirectional RNN (BRNN)



Acyclic graph

He said "Teddy Roosevelt ..."

Bi-directional RNN
with LSTM units.

BRNN w/ LSTM