DEEP LEARNING WITH KERAS

TEXT GENERATION

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Text Generation Problem

- Question Answering
- bAbi tasks
 - Dataset from Facebook: https://research.fb.com/downloads/babi/
 - Supporting Facts

STORY

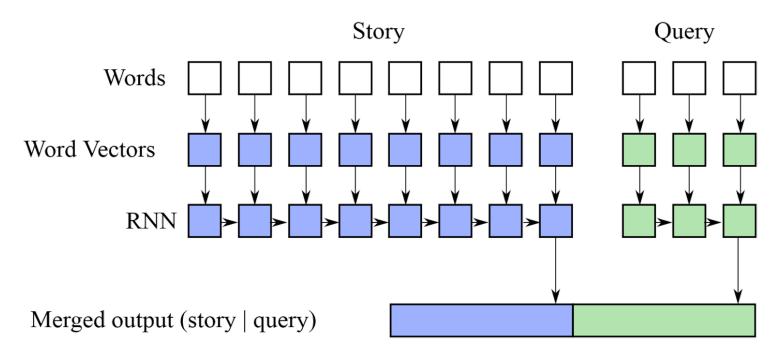
John moved to the bedroom.
Mary grabbed the football there.
Sandra journeyed to the bedroom.
Sandra went back to the hallway.
Mary moved to the garden.
Mary journeyed to the office.
Where is the football? office 2.6

QUESTION Where is the **football**?

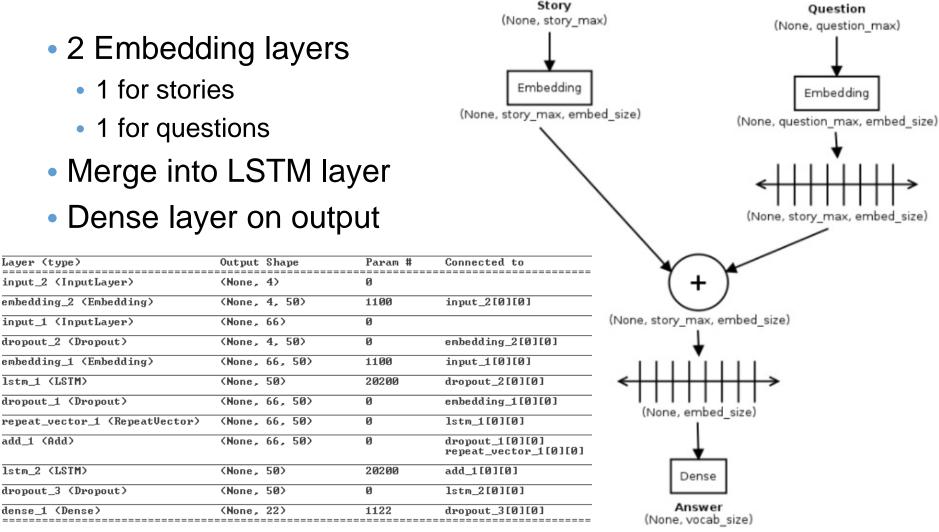
ANSWER office 2 6

Feature Representation

- Each word has an ID, so each story/query is a vector
- Train two models, one for stories and one for queries



Solution using LSTM



Source: http://smerity.com/articles/2015/keras_qa.html