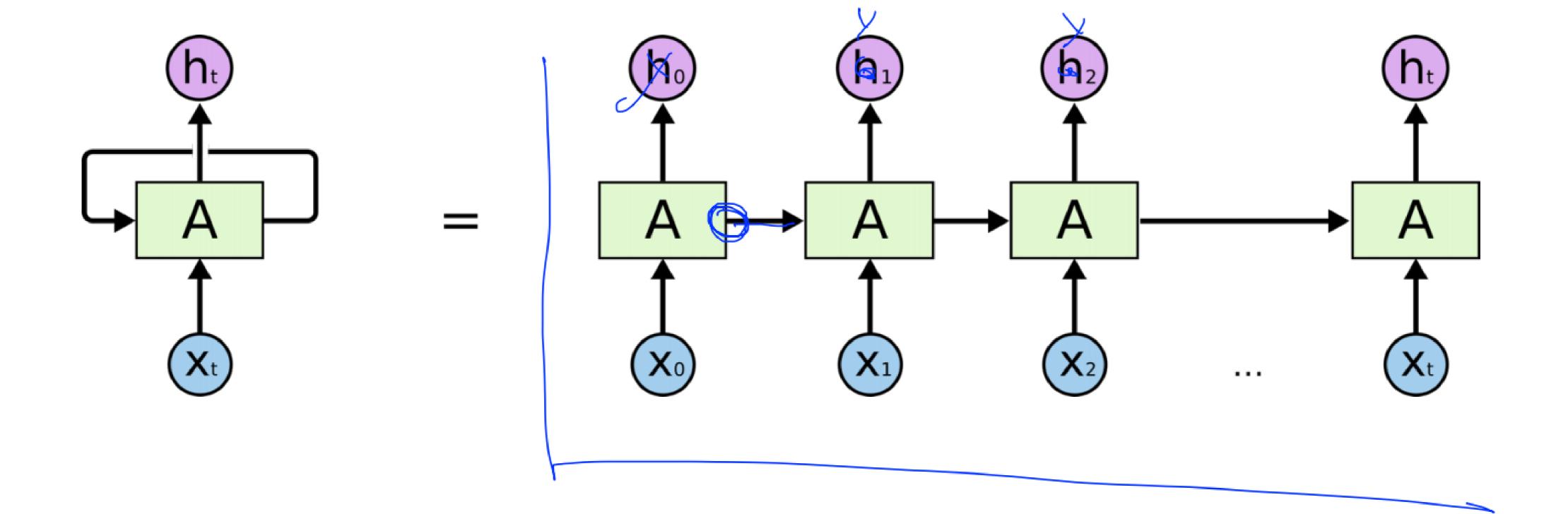
GDSC ML/DL Basic Week 05 서지현

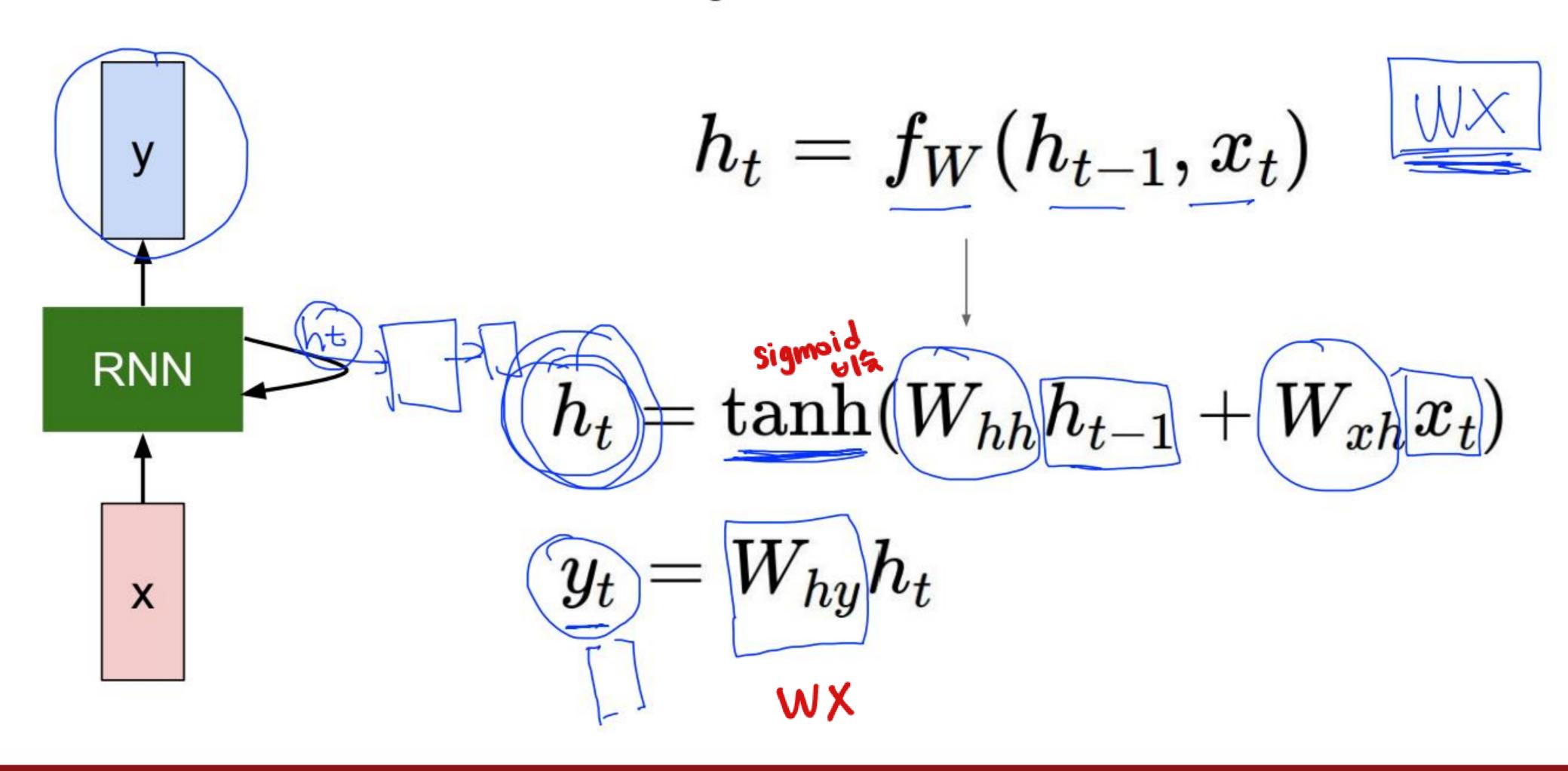


Recurrent Neural Network

We can process a sequence of vectors \mathbf{x} by applying a recurrence formula at every time step: $h_t = f_W(h_{t-1}, x_t)$ new state old state input vector at some time step some function with parameters W

(Vanilla) Recurrent Neural Network

The state consists of a single "hidden" vector h:

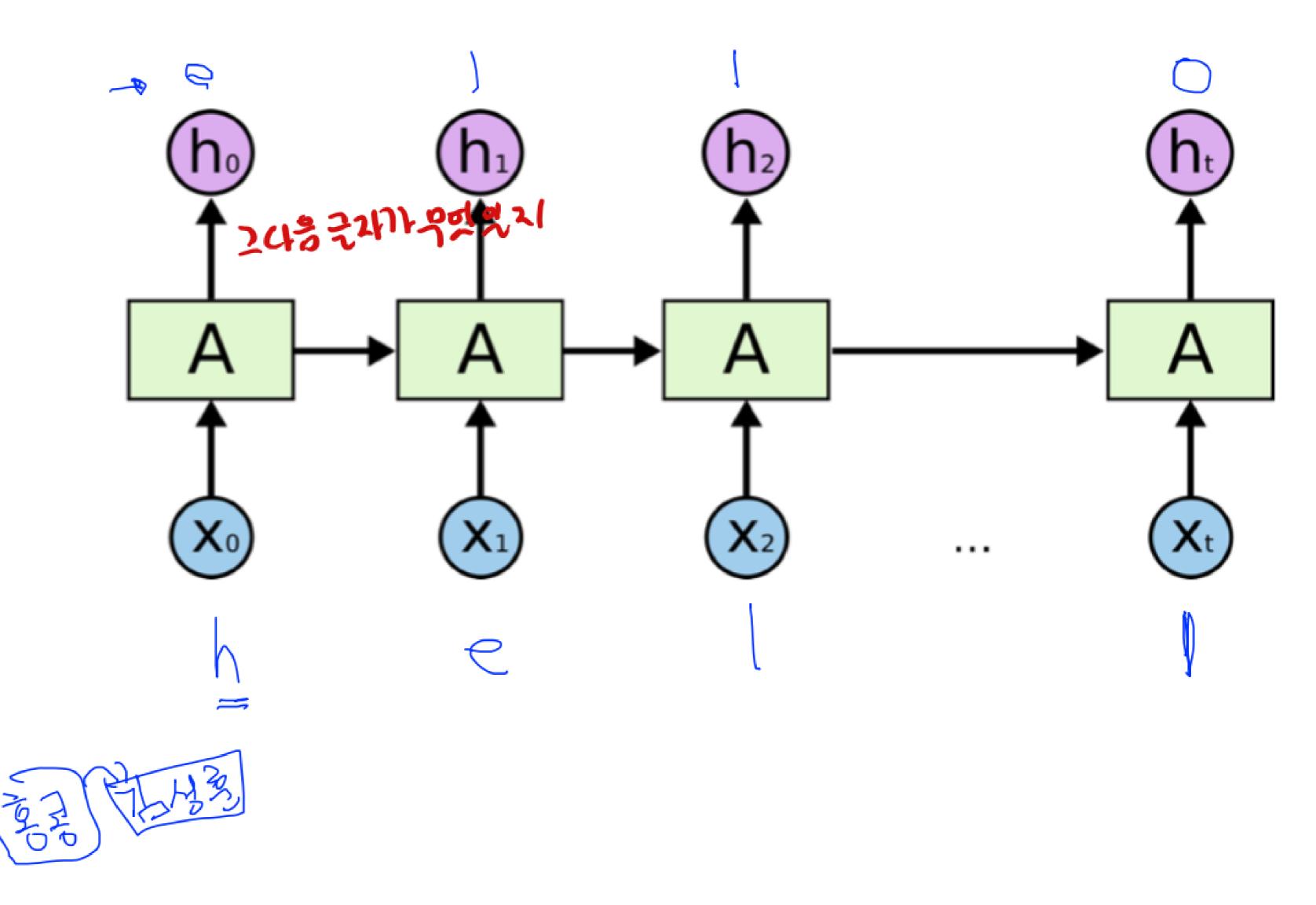


Character-level language model example

Vocabulary: [h,e,l,o]

Example training sequence:

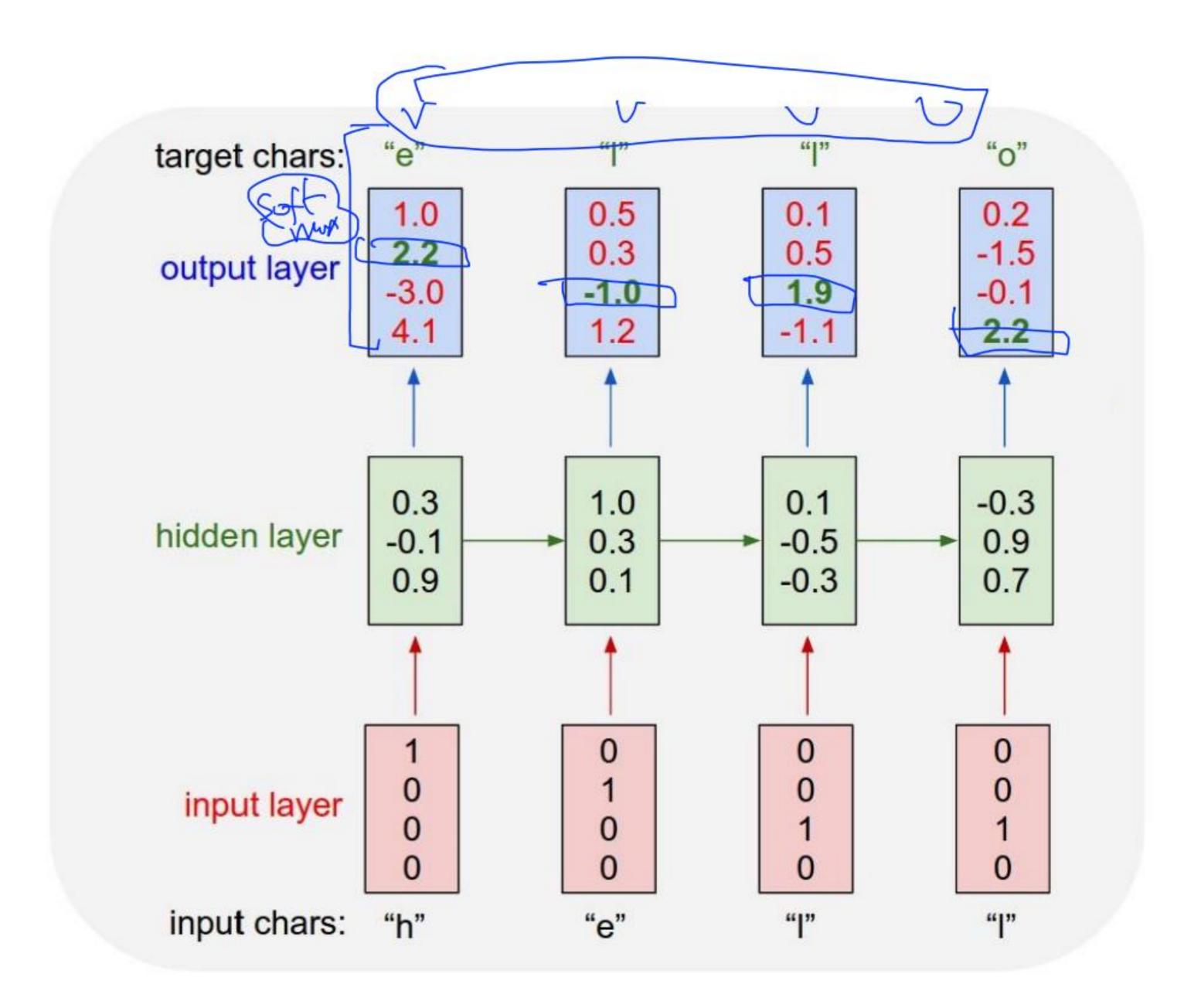
"hello"



Character-level language model example

Vocabulary: [h,e,l,o]

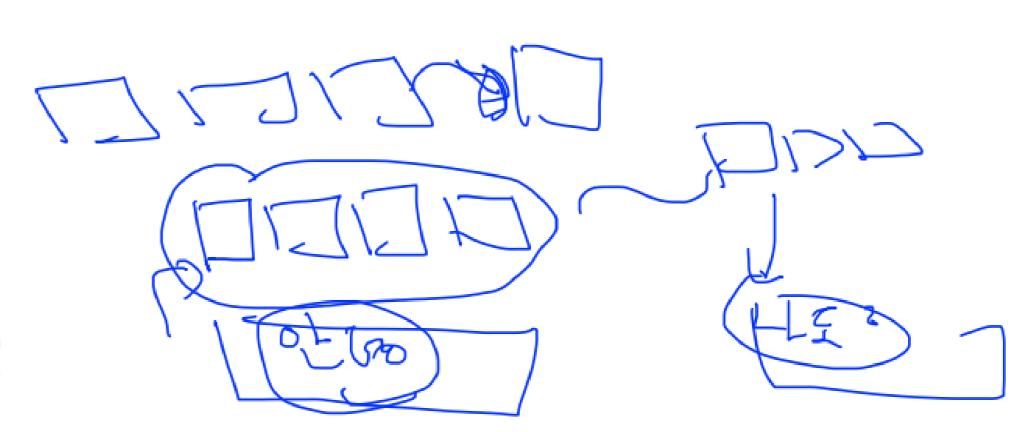
Example training sequence: "hello"



RNN applications

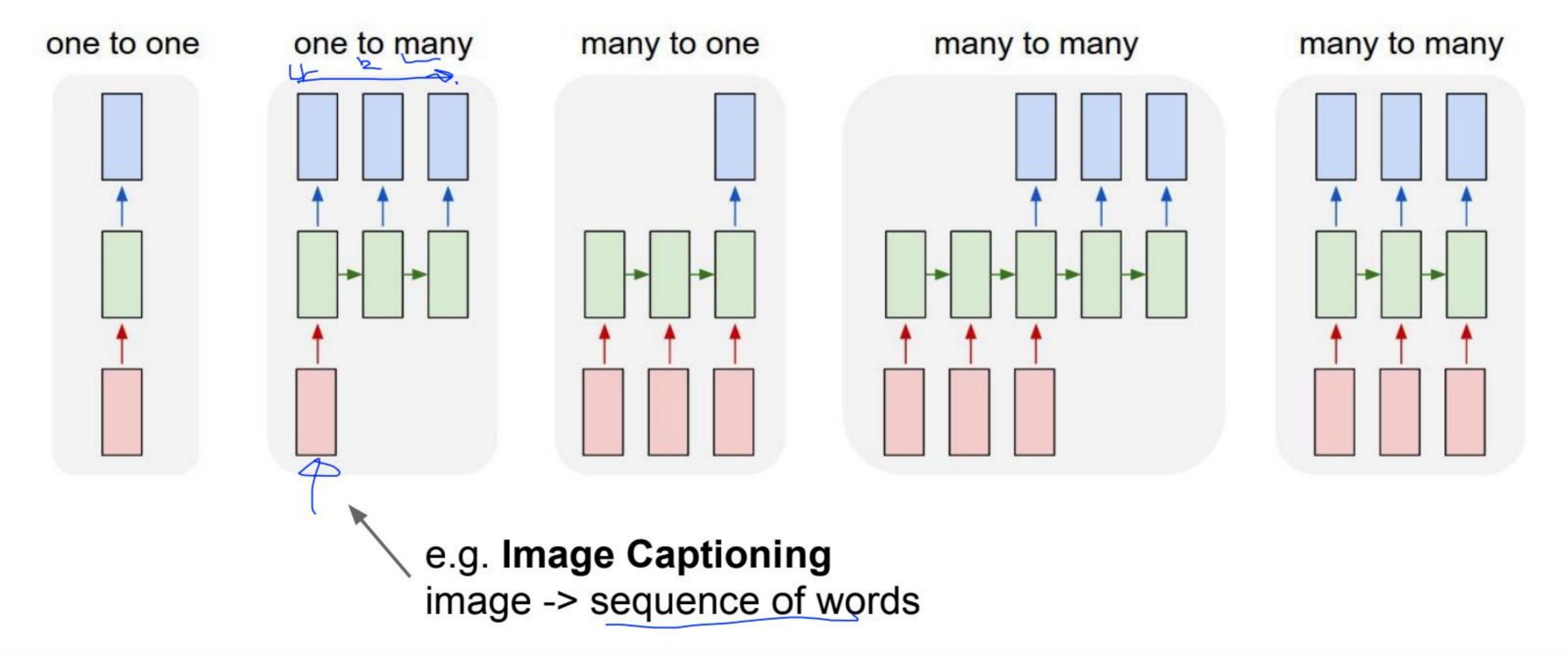
https://github.com/TensorFlowKR/awesome_tensorflow_implementations

- Language Modeling
- Speech Recognition
- Machine Translation
- Conversation Modeling/Question Answering
- Image/Video Captioning
- Image/Music/Dance Generation



http://jiwonkim.org/awesome-rnn/

Recurrent Networks offer a lot of flexibility:



기온 예측 모델 만들기(Neural Weather Forecaster)

제출 리뷰결과 개요 평가기준표 리뷰어지정전 리뷰#1 | -수강생메모 리뷰일 리뷰 결과 리뷰어 리뷰 #1 (현재 리뷰) 리뷰어 지정 전 2023.11.01