

ML/DL for Everyone Season2

with **PYTORCH**

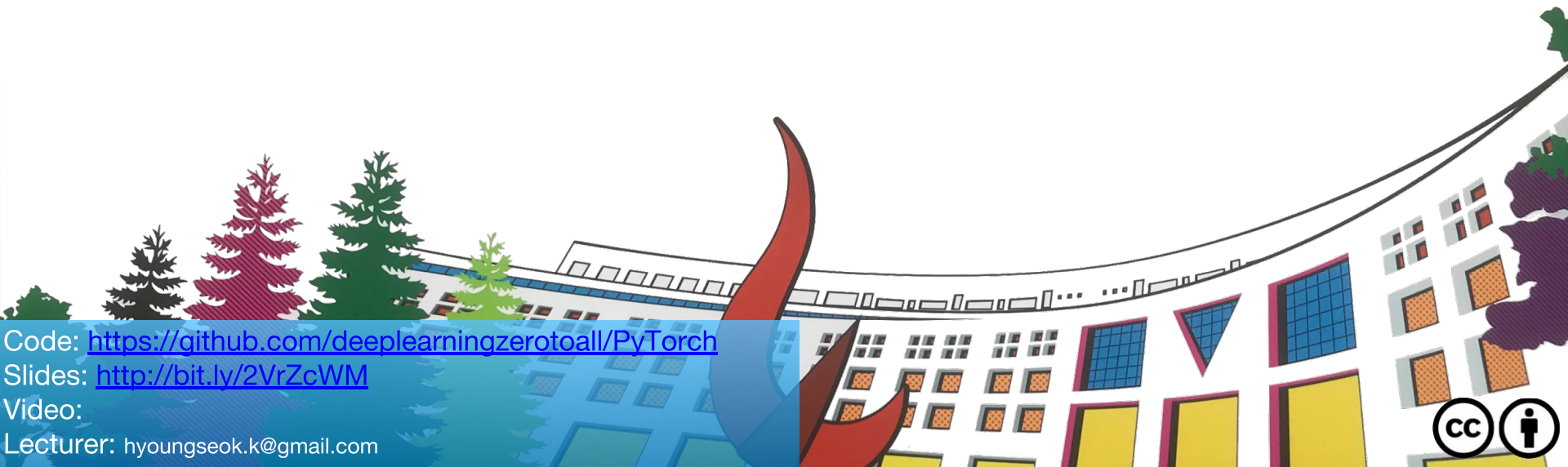
RNN - Intro

Code: <https://github.com/deeplearningzerotoall/PyTorch>

Slides: <http://bit.ly/2VrZcWM>

Video:

Lecturer: hyoungseok.k@gmail.com

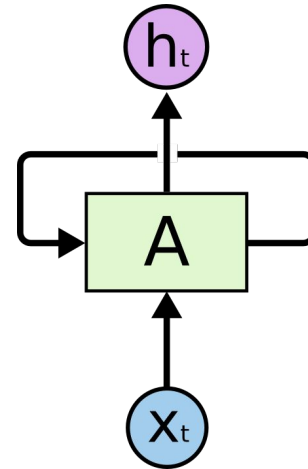


RNN - Intro

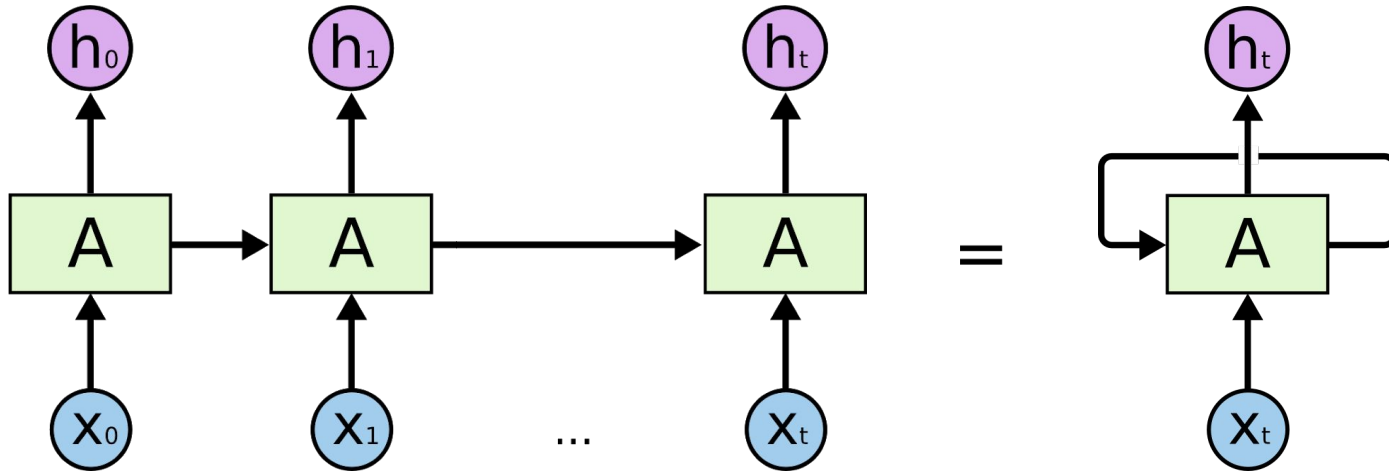
- RNN
- Usages of RNN

RNN

- For sequential data
- Such as word, sentence, time series, ...



RNN



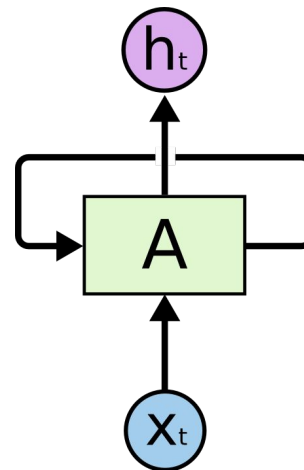
RNN

In A,

$$h_t = f(h_{t-1}, x_t)$$

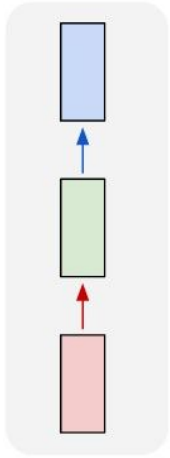
For example,

$$h_t = \tanh(W_h h_{t-1} + W_x x_t)$$

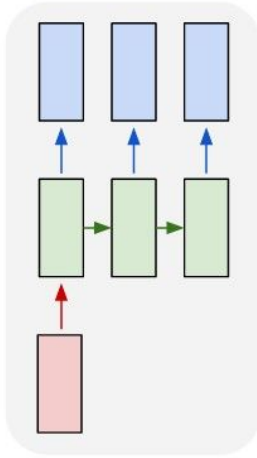


Usages of RNN

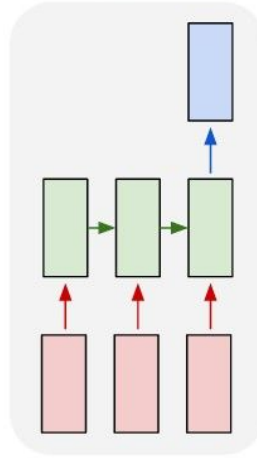
one to one



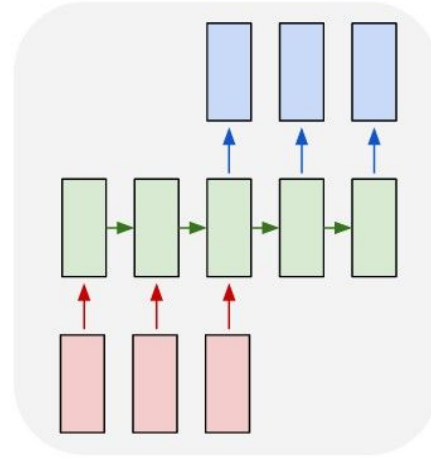
one to many



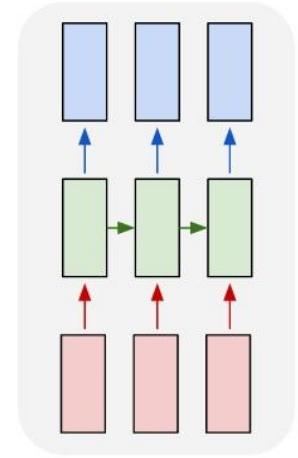
many to one



many to many



many to many



ML/DL for Everyone Season1



Lecture 12

,RNN

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<http://hunkim.github.io/ml/>



lec12: NN의 꽃 RNN 이야기

https://youtu.be/-SHPG_KMUKQ

What's Next?

- RNN in PyTorch