까지 요약(모두의 딥러닝)

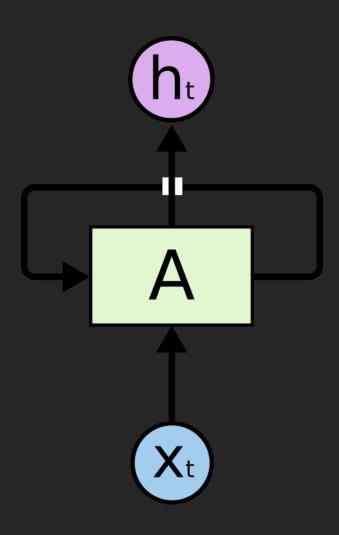
Contents

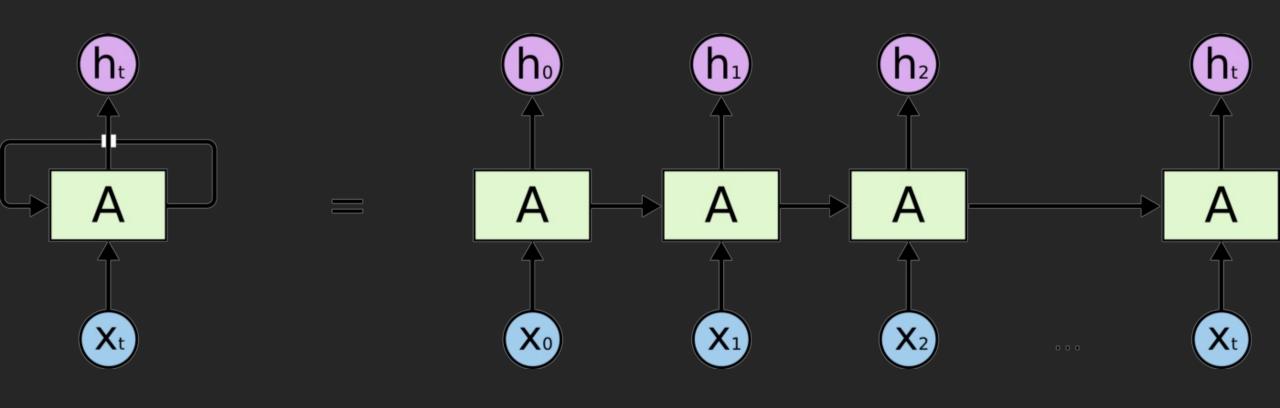
- RNN ?
- Character-level language model example-Hidden Layer
- The example-Output Layer
- A lot of Flexibility

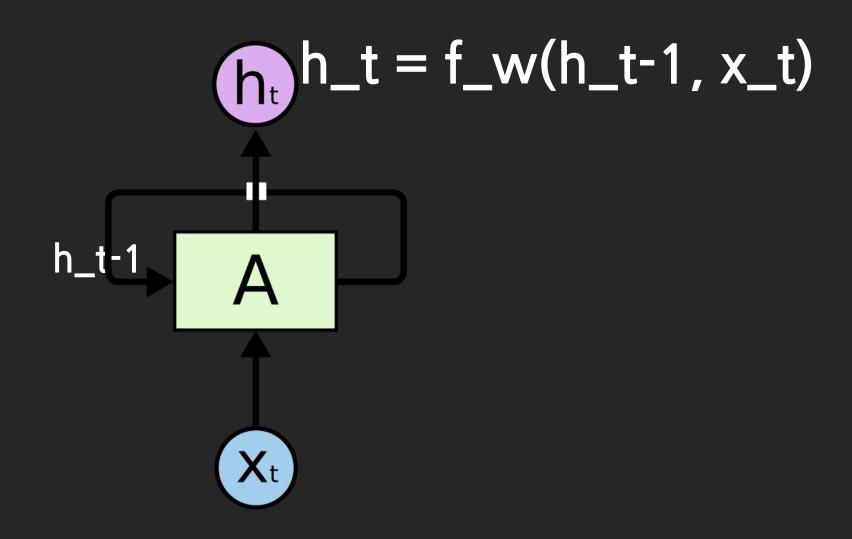
순서가 있는 데이터

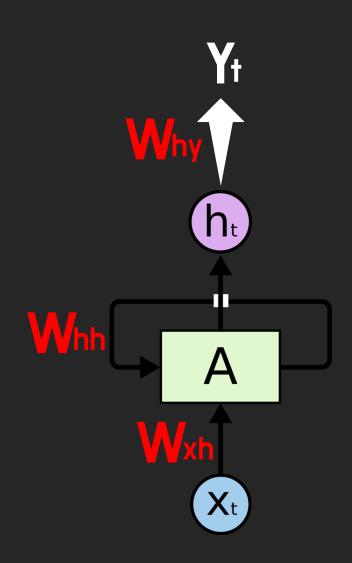
ex>words: hello(h->e->I->I->o

NN/CNN은 하지 못하는 경우







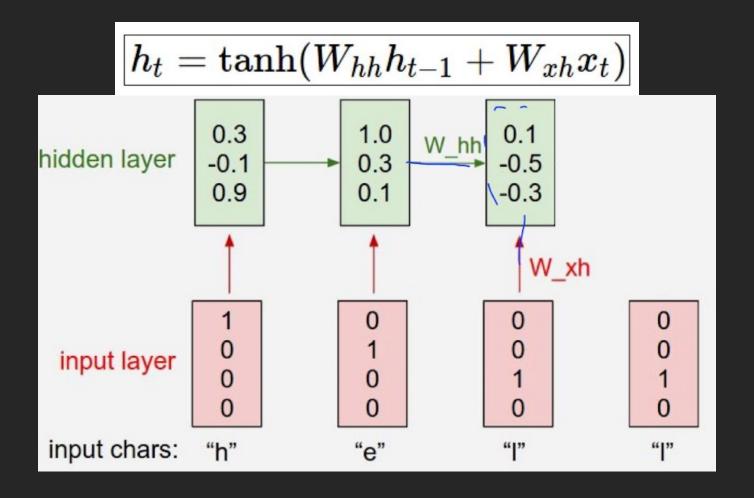


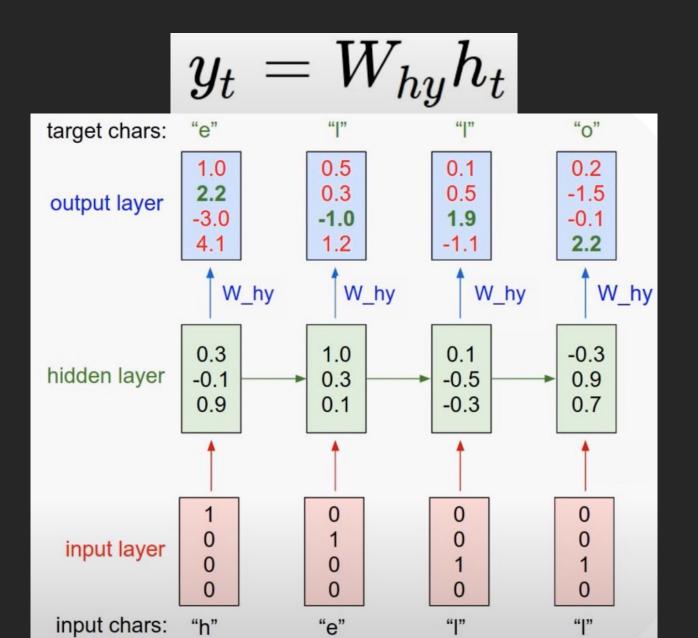
$$h_t = f_W(h_{t-1}, x_t)$$
 \downarrow $h_t = anh(W_{hh}h_{t-1} + W_{xh}x_t)$ $y_t = W_{hy}h_t$

hello

hello -> One hot encodig

hello -> One hot encodig

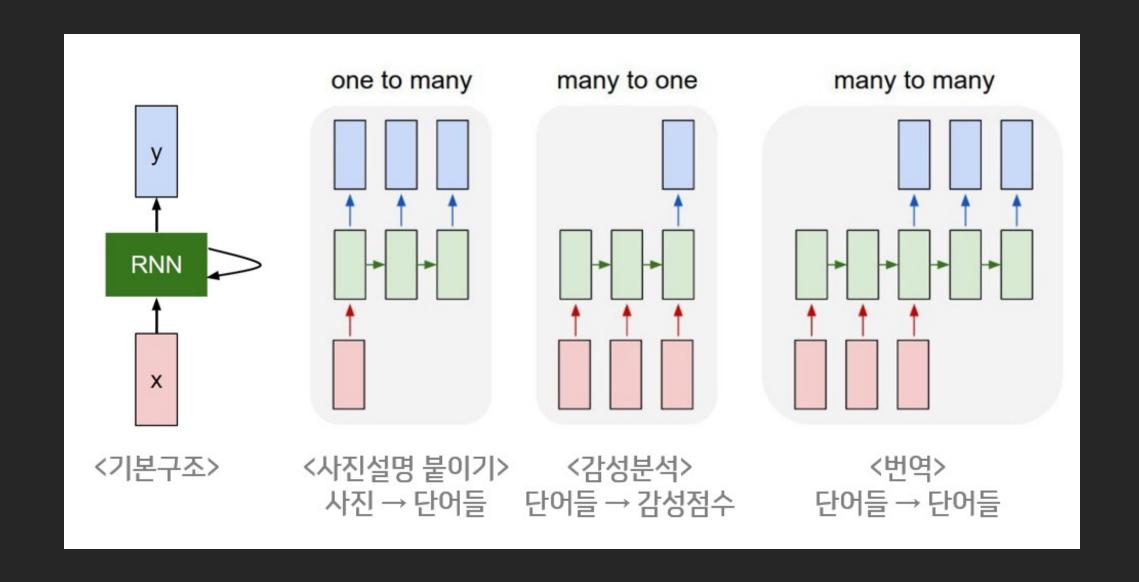




RNN applications

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

A lot of flexibility



A lot of flexibility - Multi-Layer RNN

