시즌 1 - 딥러닝의 기본 - ML lab 12

노트북: 모두를 위한 머신러닝

만든 날짜: 2019-01-11 오후 4:53 **수정한 날짜:** 2019-01-11 오후 6:00

작성자: r

태그: #모두를 위한, .ML lab

ML lab 12

= RNN

1. cell 생성

```
cell = tf.contrib.rnn.BasicRNNCell(num units=hidden size)
```

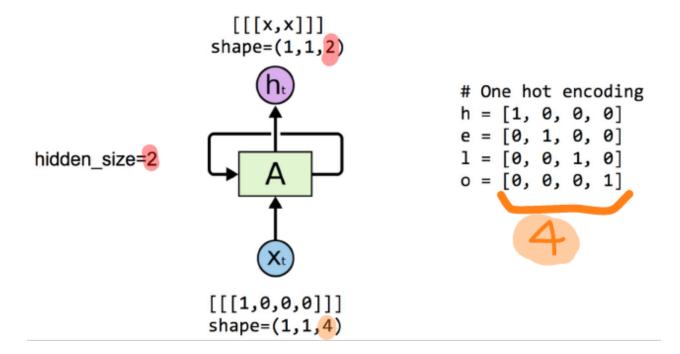
어떤 형태의 cell을 만들 것인가? BasicRNNCell, BasicLSTMCell num_units, hidden_size: output 출력 크기

2. cell 구동

```
outputs, _states = tf.nn.dynamic_rnn(cell, x_data, dtype=tf.float32)
```

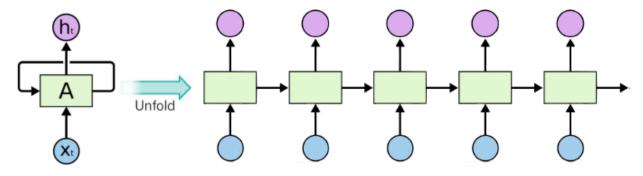
만든 cell, 원하는 입력 데이터를 넘겨줘서 두 가지 출력(outputs, _states)을 만들어냄

= One node: 4 (input-dim) in 2 (hidden_size)



= unfolding to n sequences

shape=(1,5,2): [[[x,x], [x,x], [x,x], [x,x], [x,x]]]



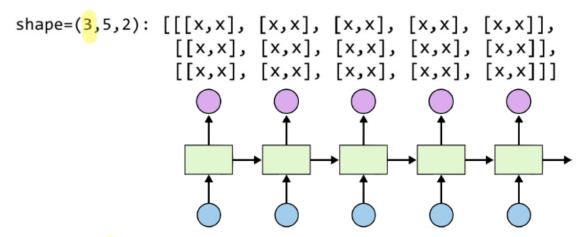
• shape=(1, 5, 4)

5: sequence_length

• shape=(1, 5, 2)

2: hidden_size

= Batching input



• shape=(3, 5, 4)

3: batch_size