RNN SLU Lab

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THEANO Installation

• Goto:

http://deeplearning.net/software/theano/install.html

Follow the instructions

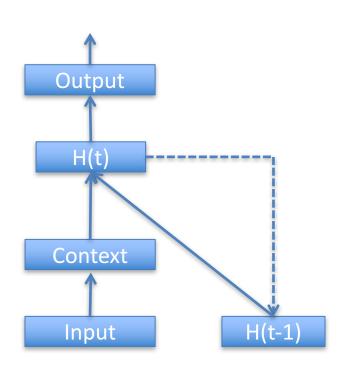
RNN SLU Tutorial

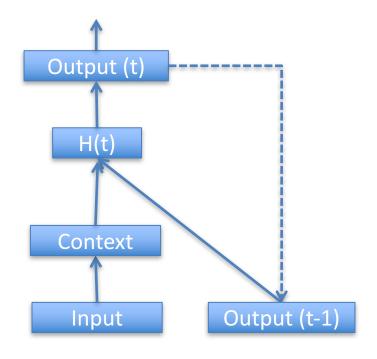
You can find a tutorial on RNN SLU at:

http://deeplearning.net/tutorial/rnnslu.html

Lab Material

- Dowload lus_rnn_lab.tar.gz
- Extract:
 - tar -xfz lus_rnn_lab.tar.gz
- Set your PYTHONPATH
 - PYTHONPATH=/home/orkan/lus_rnn_lab





Elman Type

Jordan Type

- Requirements:
 - Training data
 - Validation (development) data
 - Word lexicon
 - Label lexicon
 - Config file

Training/Validation data:

```
i O
want O
to O
go O
from O
boston B-fromloc.city_name
to O
atlanta B-toloc.city_name
on O
monday B-depart_date.day_name
```

• Word lexicon:

```
'd 0
'll 1
'm 2
're 3
's 4
't 5
72s 6
<UNK> 7
DIGIT 8
```

```
Label lexicon:
```

```
B-aircraft code 0
B-airline code 1
B-airline name 2
B-airport code 3
B-airport_name 4
B-arrive date.date relative 5
B-arrive_date.day_name 6
B-arrive date.day number 7
B-arrive date.month name 8
```

Configuration File:

Ir: 0.1

win: 7

bs: 10

nhidden: 100

seed: 345

emb_dimension: 100

nepochs: 15