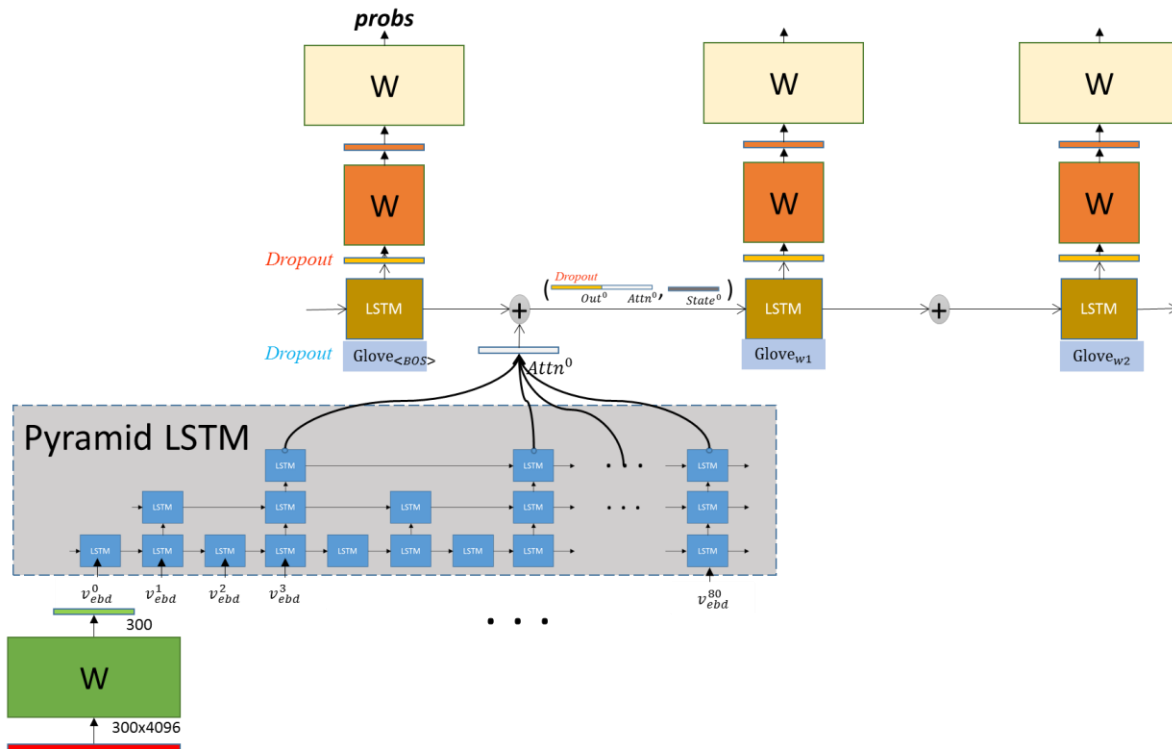


# Environment

Linux, Intel i7, GTX 960M(4G memory)

Package: tensorflow, nltk, genism, numpy

## Model description



glove (<https://nlp.stanford.edu/projects/glove/>)

## Performance

基本 SV2T 或 Attention:

BLEU  $\cong$  0.250

1. Attention + Pyramid LSTM for video part:

BLEU  $\cong$  0.275

2. Attention + Pyramid LSTM for video part + Dropout:

BLEU  $\cong$  0.315

其他嘗試但無改善,不確定是否為實做問題

1. Schedule rate

2. Beam Search

## Experiment settings and results

### # Model Structure

Hidden\_Size\_per\_Single\_LSTM\_Cell = 300

Basic\_Cell = tf.contrib.rnn.BasicLSTMCell(Hidden\_Size, forget\_bias=1.0)

Pre\_Trained\_Ebd = "Glove"

### # Training

```
Train_Iters = 36000
Batch_Size = 64
Loss = "Softmax_Loss"
Optimizer_Type = "Adam"
Learning_Rate = 0.001
Learning_Rate_Decay_Step = 24000
Finetune_Embedding_Rate = 0.05 * current_learning_rate
```

## # Results

**BLEU: 0.313**