

## Recurrent Neural Networks

Language model and sequence generation

## What is language modelling?

Speech recognition

The apple and pair salad.

The apple and pear salad.

 $P(\text{The apple and pair salad}) = 3.2 \times 10^{-13}$ 

 $P(\text{The apple and pear salad}) = 5.7 \times 10^{-10}$ 

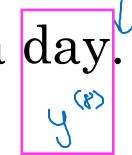
## Language modelling with an RNN

Training set: large corpus of english text.

EOS: End Of

Sentence

Cats average 15 hours of sleep a day.





The Egyptian Mau is a bread of cat. <EOS>

If not shown in the vocabulary list, then replace with UNK->Unknown

0,000

