

## 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.

 $\langle u n k \rangle$ 

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

