



deeplearning.ai

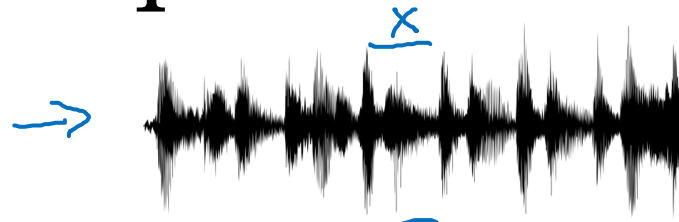
Sequence model, one of the most exciting areas in deep learning. Models like recurrent neural networks or RNNs have transformed speech recognition, natural language processing and other areas.

Recurrent Neural Networks

Why sequence models?

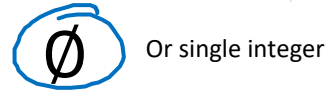
Examples of sequence data

Speech recognition



→ “The quick brown fox jumped
over the lazy dog.”

Music generation



Sentiment classification

→ “There is nothing to like
in this movie.”



DNA sequence analysis → AGCCCCTGTGAGGAACTAG

→ AGCCCCTGTGAGGAACTAG

Machine translation

Voulez-vous chanter avec
moi?

→ Do you want to sing with
me?

Video activity recognition



→ Running

Name entity recognition → Yesterday, Harry Potter
met Hermione Granger.

→ Yesterday, Harry Potter
met Hermione Granger.
Andrew Ng