



deeplearning.ai

*a lot of different types of sequence problems, both x, y? different length?*

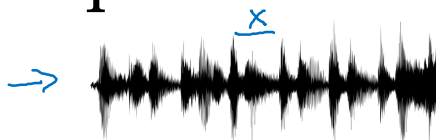
# Recurrent Neural Networks

---

## Why sequence models?

# Examples of sequence data

Speech recognition



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

Music generation

$\emptyset$  or kt or...



Sentiment classification

“There is nothing to like  
in this movie.”



DNA sequence analysis → AGCCCCTGTGAGGAAGTAG

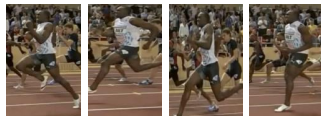
AGCCCCTGTGAGGAAGTAG

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