



deeplearning.ai

# Recurrent Neural Networks

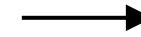
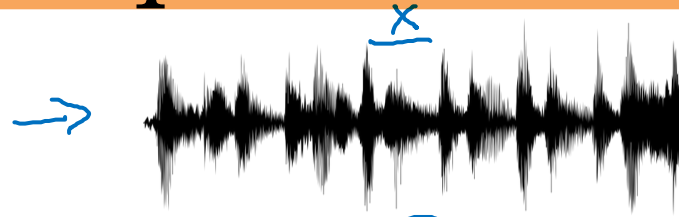
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Why sequence  
models?

# Examples of sequence data

Pair (x, y) forms the training set.

Speech recognition



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

Music generation

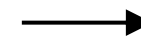


Sentiment classification

“There is nothing to like  
in this movie.”



DNA sequence analysis → AGCCCCTGTGAGGAACTAG



AG**CCCCTGTGAGGAACTAG**

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