



deeplearning.ai

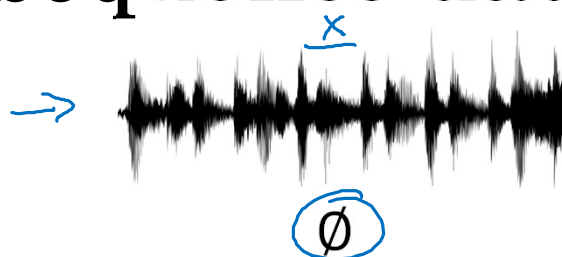
# Recurrent Neural Networks

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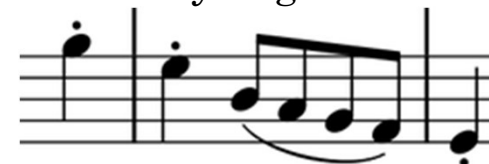
## Why sequence models?

# Examples of sequence data

Speech recognition



“The quick <sup>y</sup>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