deeplearning.ai

Recurrent Neural Networks

Why sequence models?
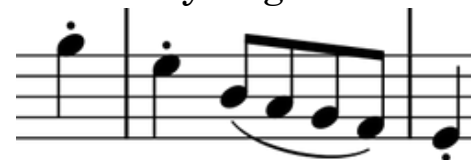
Examples of sequence data

Speech recognition $\xrightarrow{}$ $\overset{x}{\text{[waveform]}}$ $\xrightarrow{}$ $\overset{y}{\text{"The quick brown fox jumped over the lazy dog."}}$
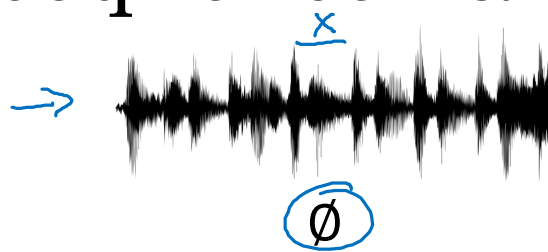
Music generation $\boxed{\varnothing}$ $\xrightarrow{}$ [sheet music]

Sentiment classification "There is nothing to like in this movie." $\xrightarrow{}$ ★☆☆☆☆

DNA sequence analysis $\xrightarrow{}$ AGCCCCTGTGAGGAACTAG $\xrightarrow{}$ AGCCCCTGTGAGGAACTAG

Machine translation Voulez-vous chanter avec moi? $\xrightarrow{}$ Do you want to sing with me?

Video activity recognition [images] $\xrightarrow{}$ Running

Name entity recognition $\xrightarrow{}$ Yesterday, Harry Potter met Hermione Granger. $\xrightarrow{}$ Yesterday, Harry Potter met Hermione Granger.

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