Recurrent Neural Networks

Why sequence models?

deeplearning.ai

Examples of sequence data

Speech recognition	$\rightarrow$	x ~~~ (audio waveform)	y → "The quick brown fox jumped over the lazy dog."
Music generation		$\emptyset$	→ (musical notation)
Sentiment classification		"There is nothing to like in this movie."	→ ★☆☆☆☆
DNA sequence analysis	$\rightarrow$	AGCCCCTGTGAGGAACTAG	→ AGCCCCTGTGAGGAACTAG
Machine translation		Voulez-vous chanter avec moi?	→ Do you want to sing with me?
Video activity recognition		(image frames)	→ Running
Name entity recognition	$\rightarrow$	Yesterday, Harry Potter met Hermione Granger.	→ Yesterday, Harry Potter met Hermione Granger.
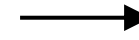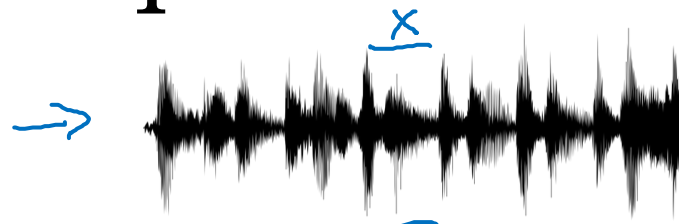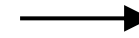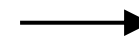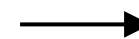
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