

Recurrent Neural Networks

Different types of RNNs

This video was inspired by a long post by Andrej Karpathy titled "The Unreasonable Effectiveness of Recurrent Neural Network"

Examples of sequence data

Speech recognition

Music generation

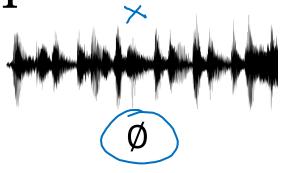
Sentiment classification

DNA sequence analysis

Machine translation

Video activity recognition

Name entity recognition



"There is nothing to like in this movie."

AGCCCCTGTGAGGAACTAG

Voulez-vous chanter avec moi?



Yesterday, Harry Potter met Hermione Granger. "The quick brown fox jumped over the lazy dog."



AGCCCCTGTGAGGAACTAG

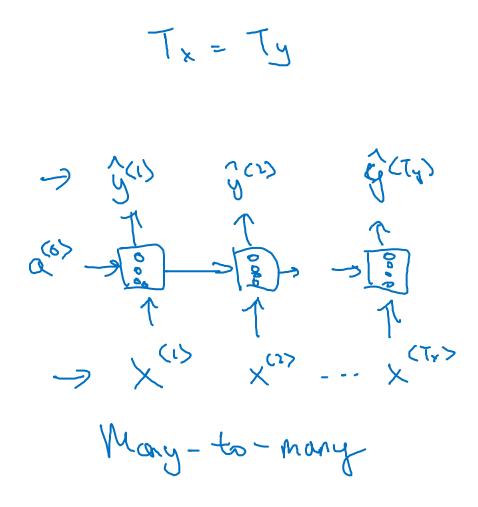
Do you want to sing with me?

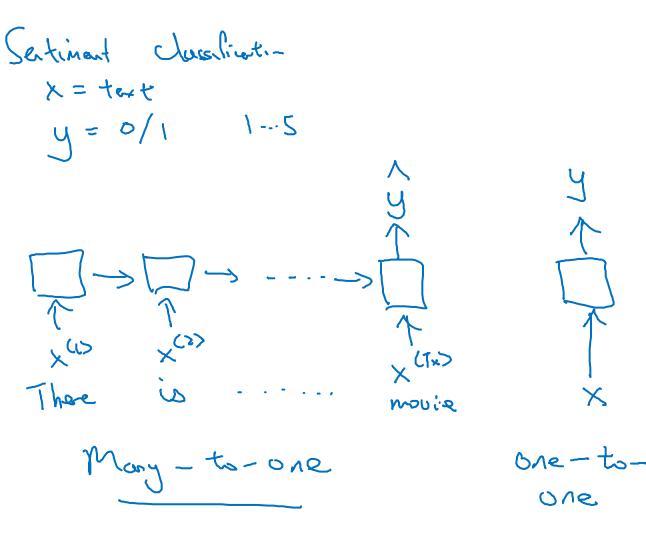
Running

Yesterday, Harry Potter met Hermione Granger.

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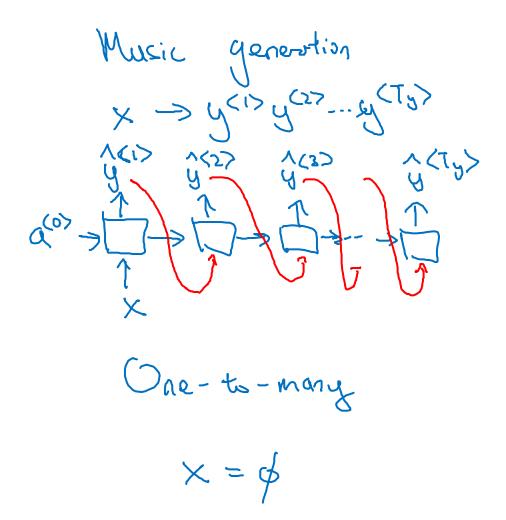
Examples of RNN architectures

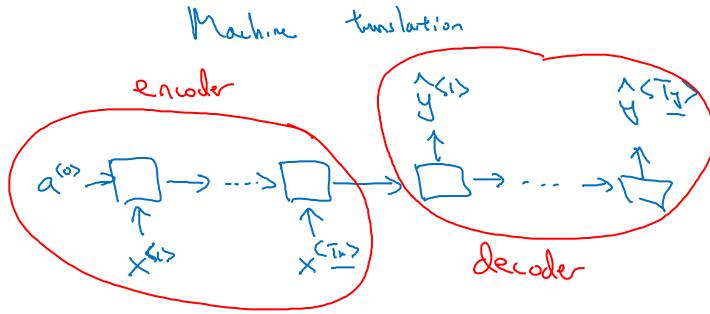




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Examples of RNN architectures





With this architecture, T_x and T_y and be different lengths.

Mary - to- many

attention based architecture

Summary of RNN types

