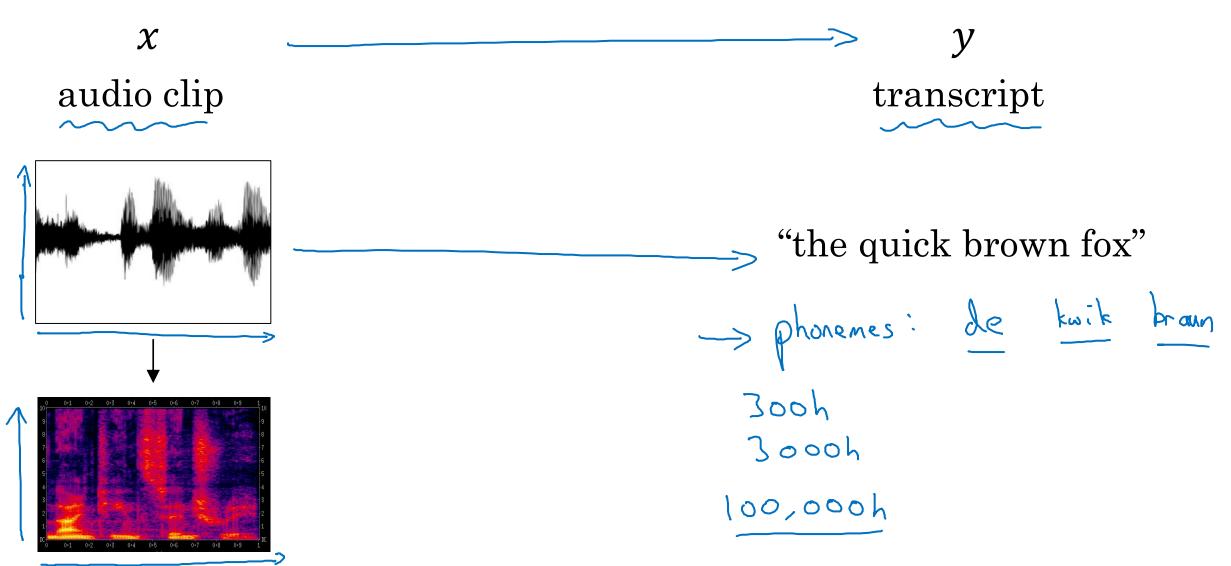


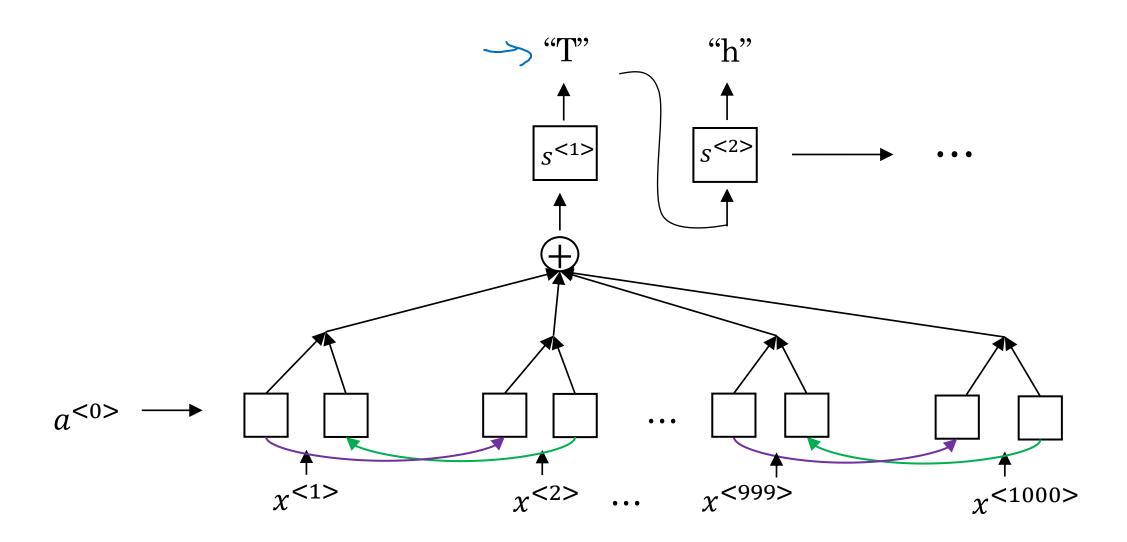
Audio data

Speech recognition

Speech recognition problem

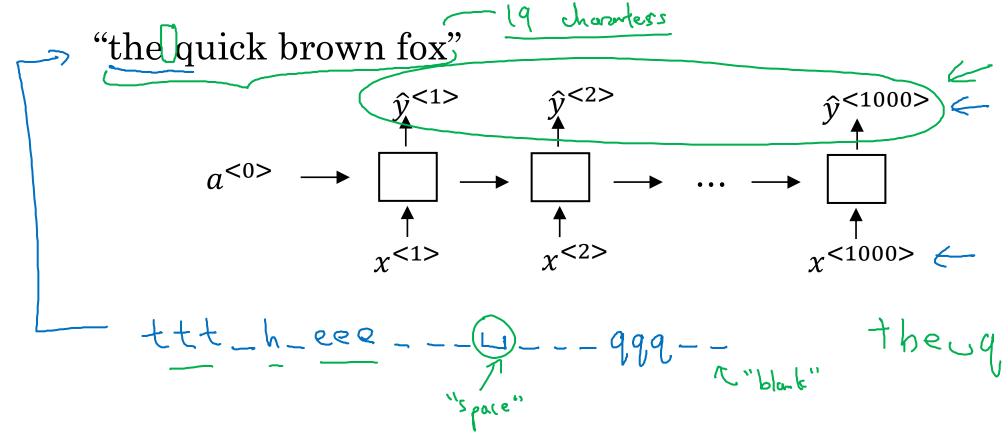


Attention model for speech recognition



CTC cost for speech recognition

(Connectionist temporal classification)



Basic rule: collapse repeated characters not separated by "blank"



Audio data

Trigger word detection

What is trigger word detection?



Amazon Echo (Alexa)



Baidu DuerOS (xiaodunihao)

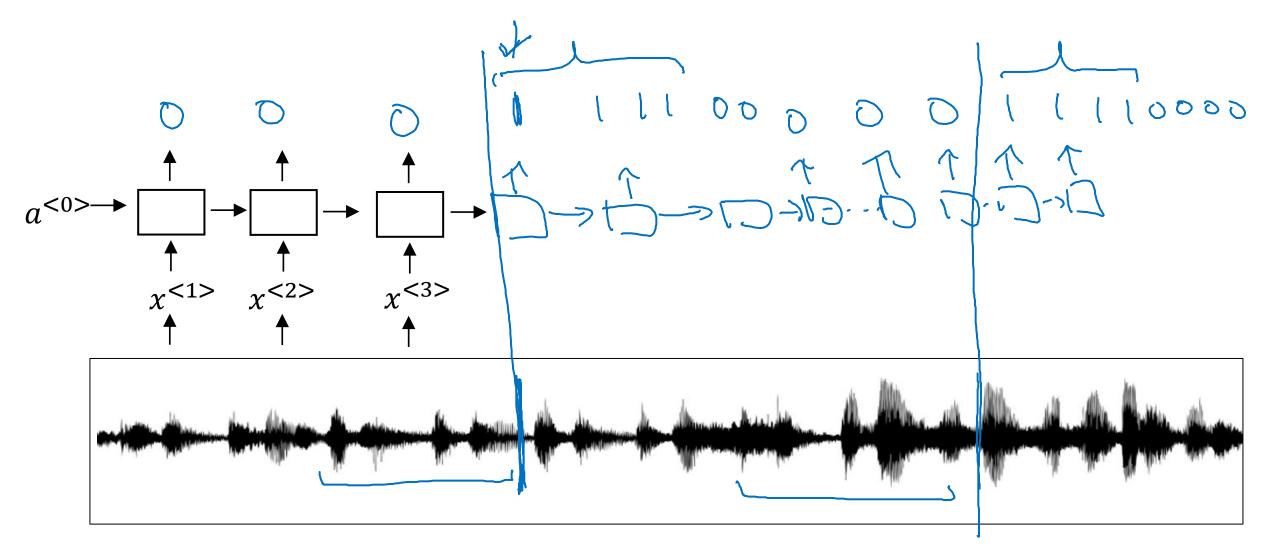


Apple Siri (Hey Siri)



Google Home (Okay Google)

Trigger word detection algorithm





Conclusion

Summary and thank you

Specialization outline

- 1. Neural Networks and Deep Learning
- 2. Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization
- 3. Structuring Machine Learning Projects
- 4. Convolutional Neural Networks
- 5. Sequence Models

Deep learning is a super power

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Thank you.

- Andrew Ng