



deeplearning.ai

Audio data

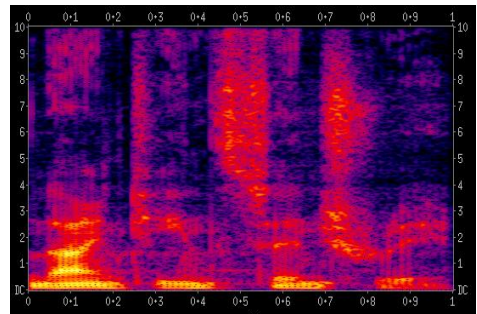
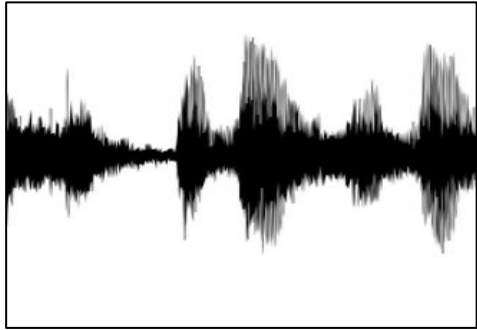
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Speech recognition

# Speech recognition problem

$x$

audio clip



$y$

transcript

“the quick brown fox”

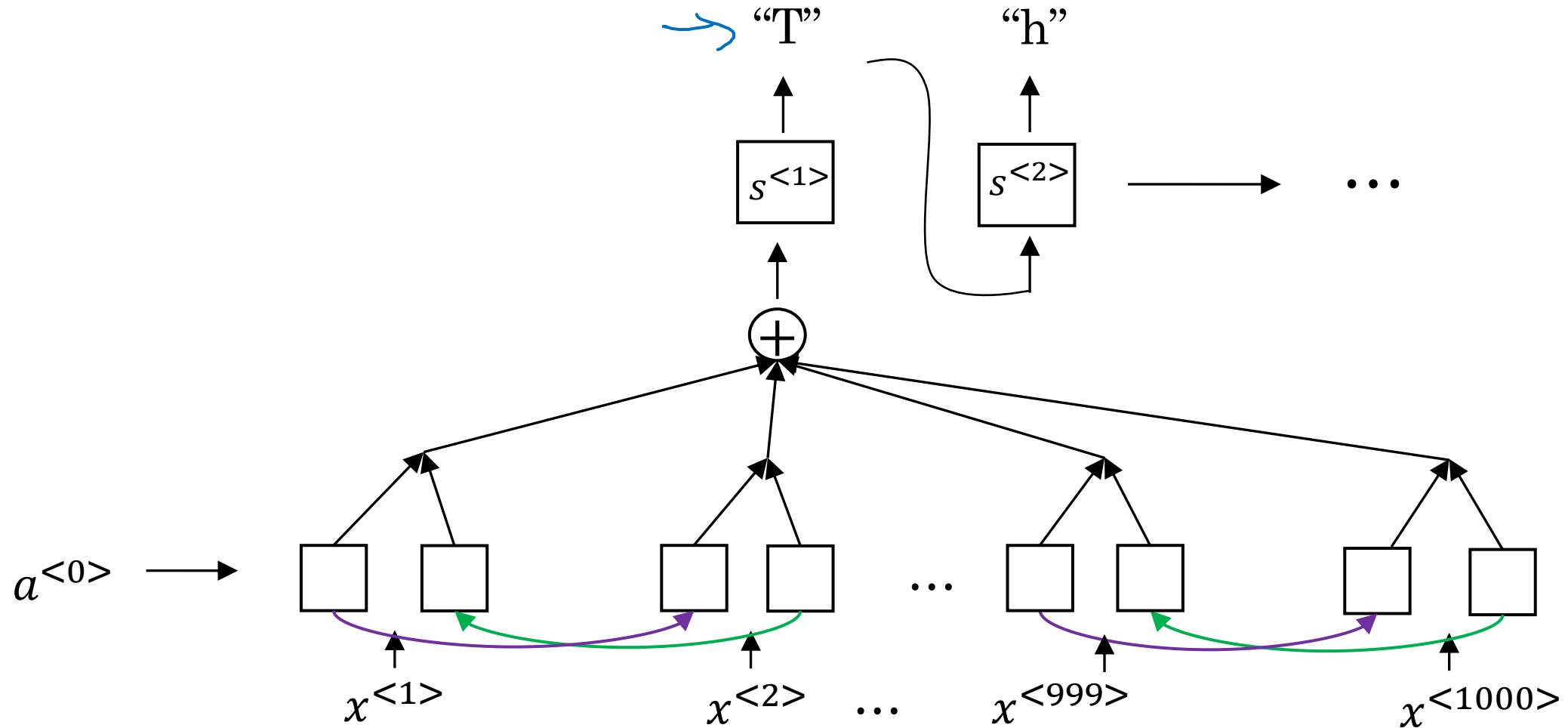
→ phonemes: de kwik braun

300h

3000h

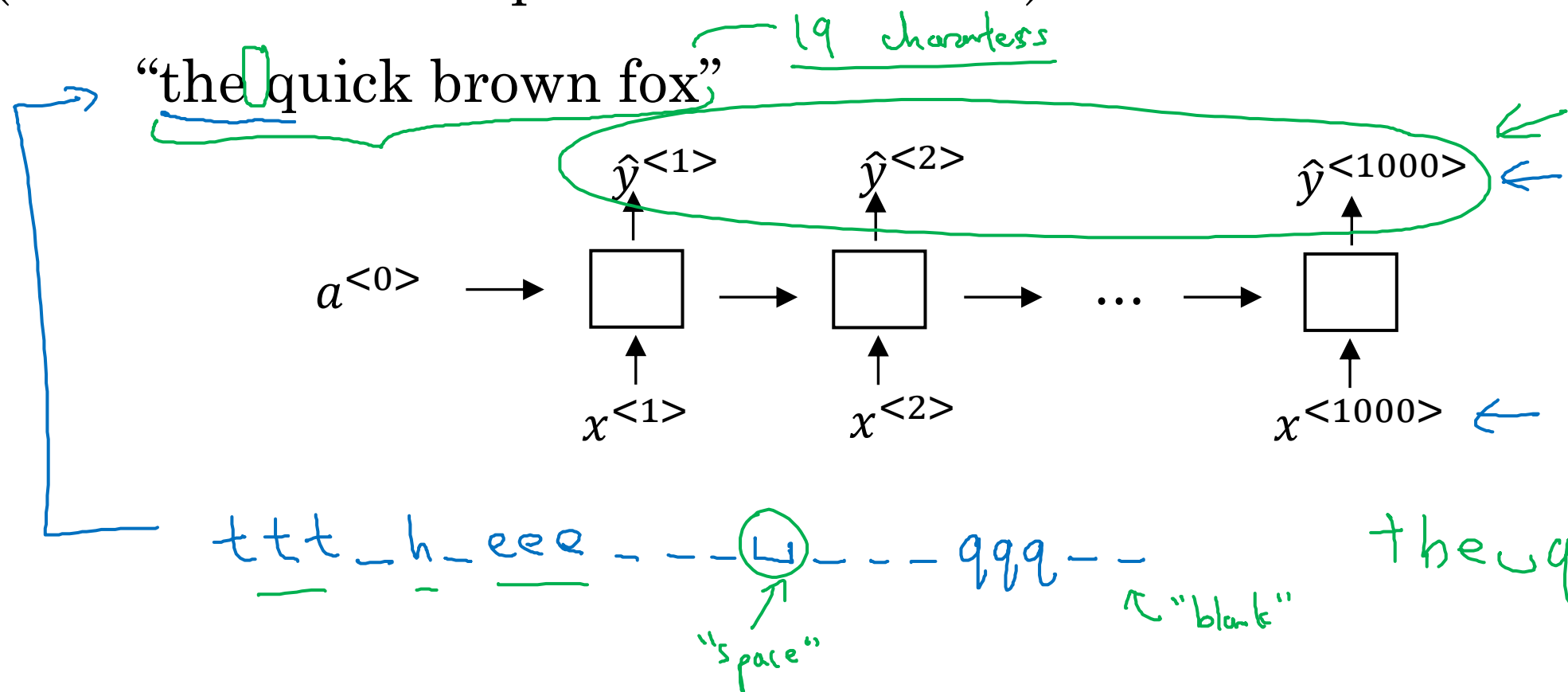
100,000h

# Attention model for speech recognition



# CTC cost for speech recognition

(Connectionist temporal classification)



Basic rule: collapse repeated characters not separated by “blank”