



deeplearning.ai

Audio data

---

Speech recognition

# Speech recognition problem

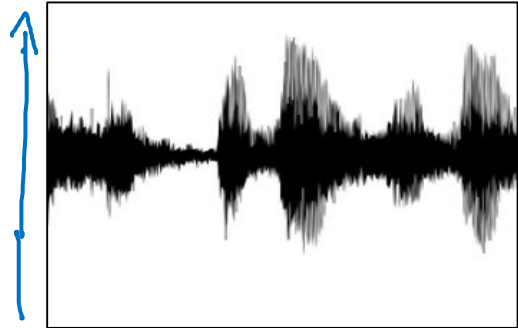
$x$

audio clip



$y$

transcript



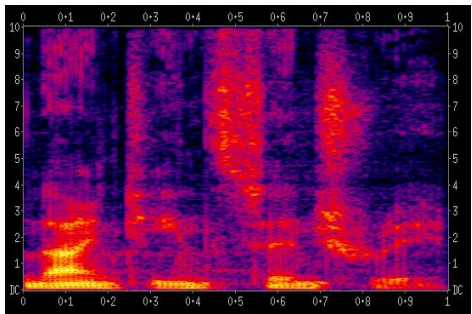
“the quick brown fox”

→ phonemes: de kwik braun

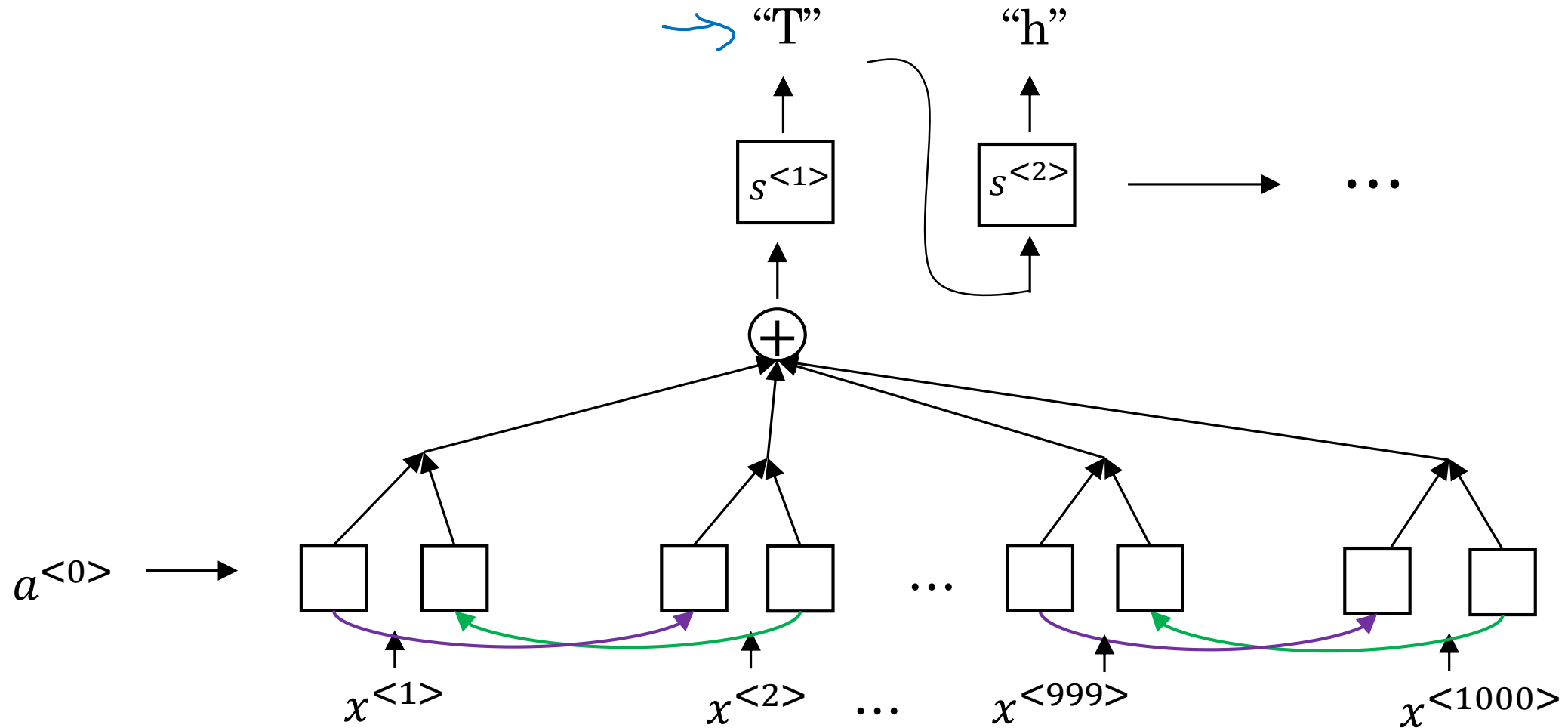
300h

3000h

100,000h

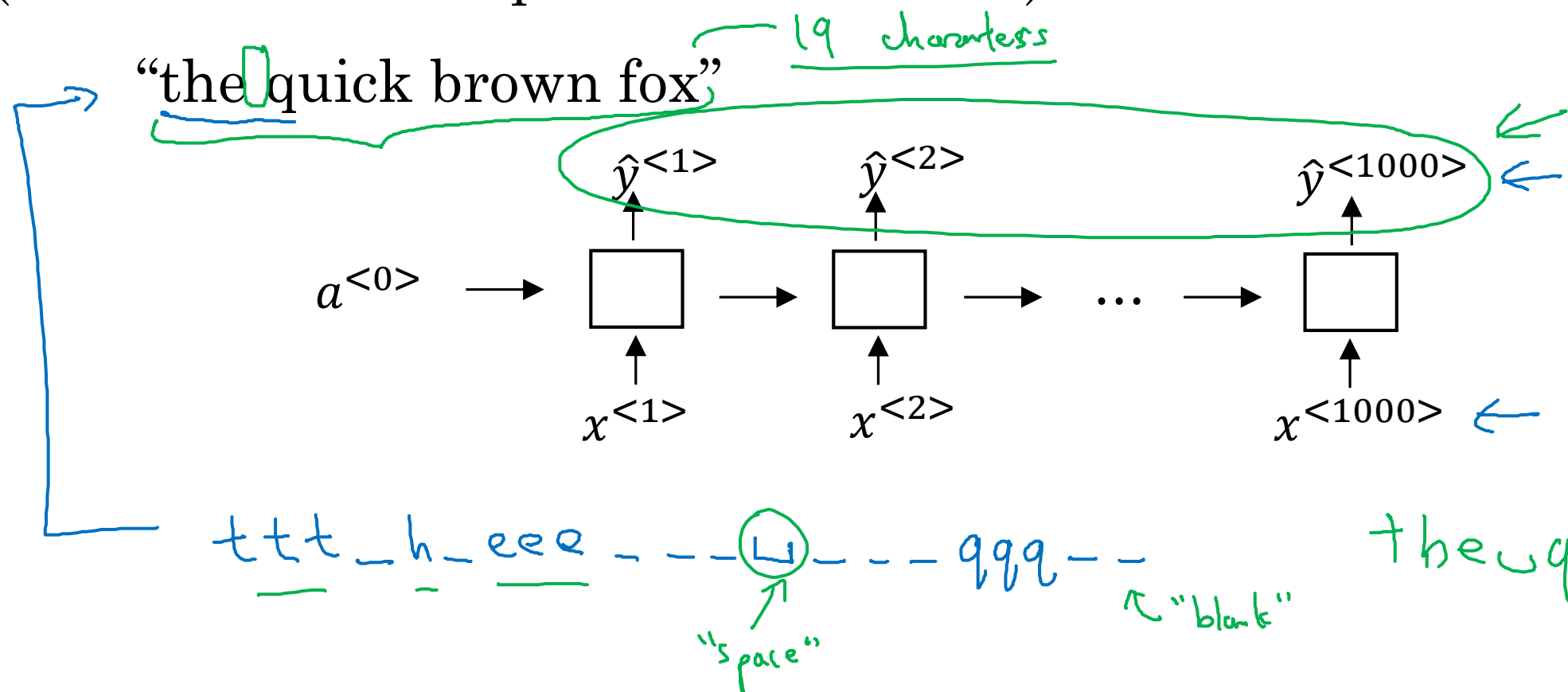


# Attention model for speech recognition



# CTC cost for speech recognition

(Connectionist temporal classification)



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