deeplearning.ai

Sequence to sequence models
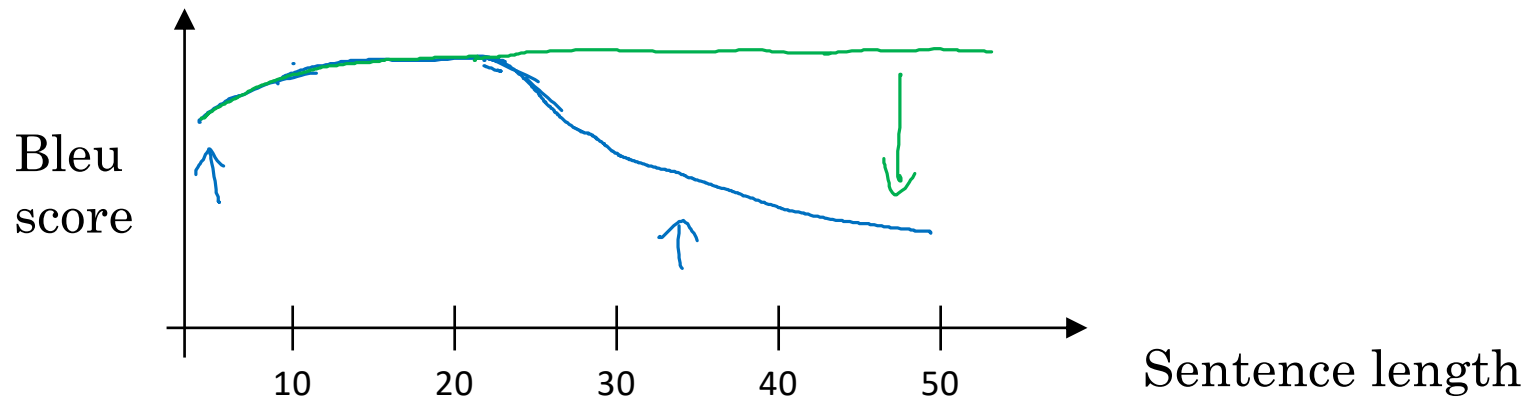
Attention model intuition

The problem of long sequences

$a^{<0>}$ → □ → ···· → □ → □ → ··· → □

$x^{<1>}$ $x^{<T_x>}$ $\hat{y}^{<1>}$ $\hat{y}^{<T_y>}$
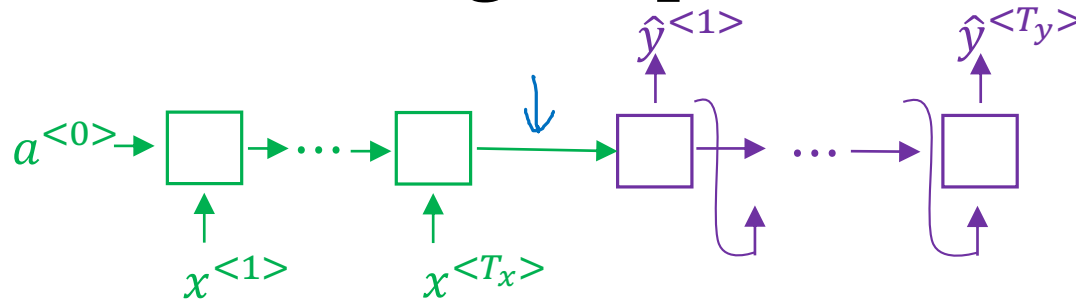
Jane s'est rendue en Afrique en septembre dernier, a apprécié la culture et a rencontré beaucoup de gens merveilleux; elle est revenue en parlant comment son voyage était merveilleux, et elle me tente d'y aller aussi.

Jane went to Africa last September, and enjoyed the culture and met many wonderful people; she came back raving about how wonderful her trip was, and is tempting me to go too.

Bleu score

10   20   30   40   50   Sentence length

Attention model intuition
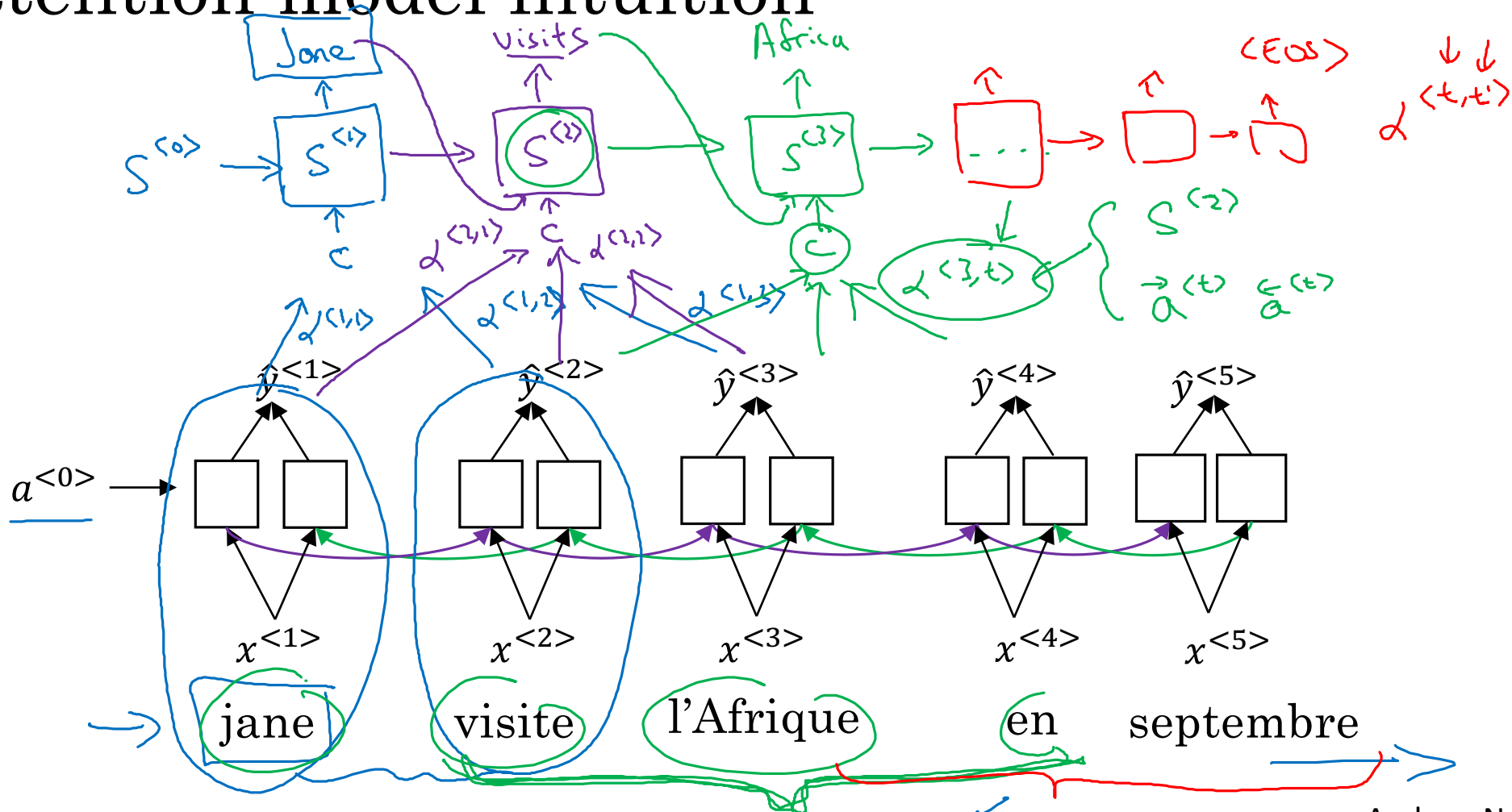
[Bahdanau et. al., 2014. Neural machine translation by jointly learning to align and translate]

Andrew Ng