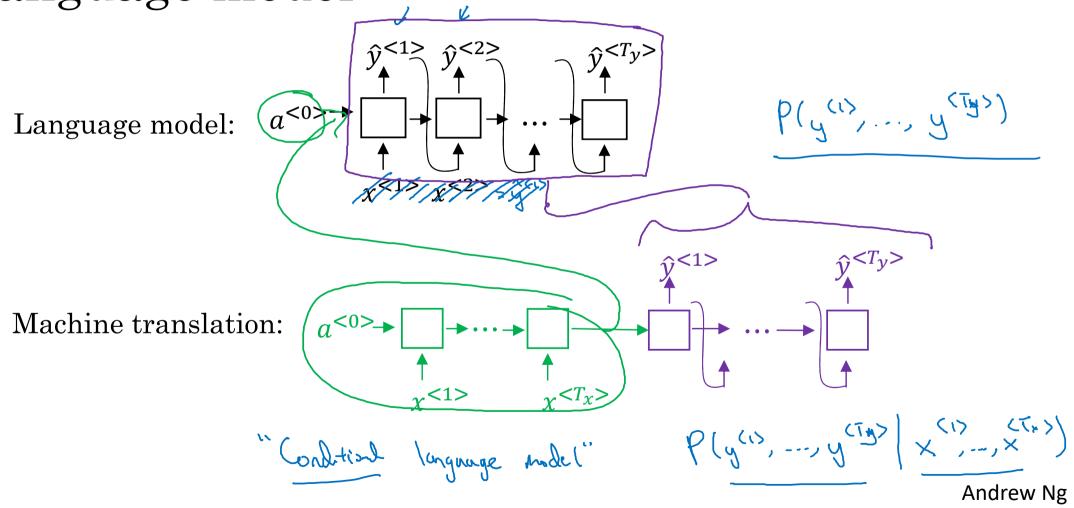


Sequence to sequence models

Picking the most likely sentence

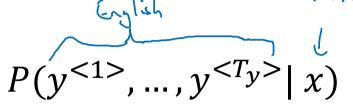
Machine translation as building a conditional

language model



Finding the most likely translation

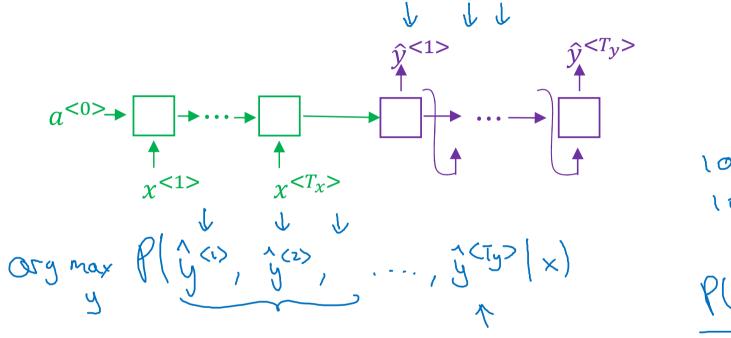
Jane visite l'Afrique en septembre.



- → Jane is visiting Africa in September.
- → Jane is going to be visiting Africa in September.
- → In September, Jane will visit Africa.
- → Her African friend welcomed Jane in September.

$$\underset{y<1>,...,y}{\text{arg max}} P(y^{<1>},...,y^{} | x)$$

Why not a greedy search?



10,000 10 10,000 (9/x)

- → Jane is visiting Africa in September.
- → Jane is going to be visiting Africa in September.