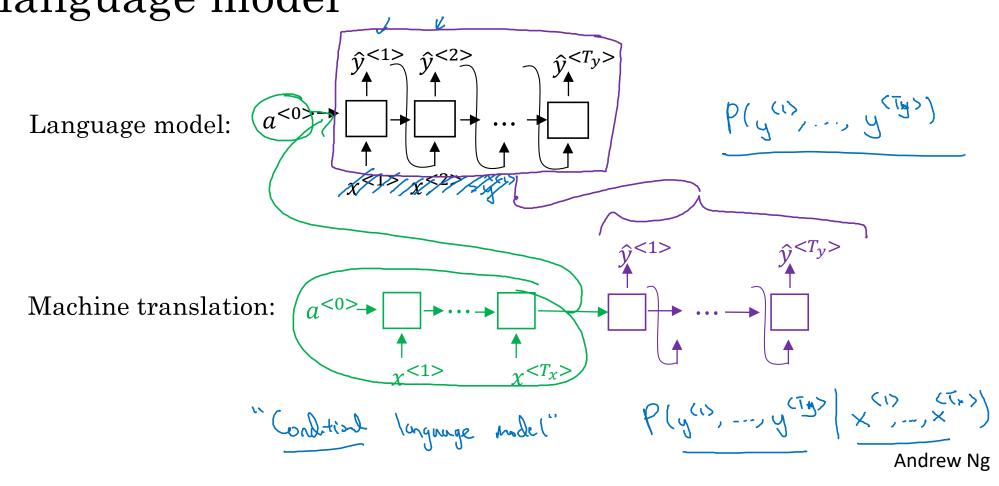


Sequence to sequence models

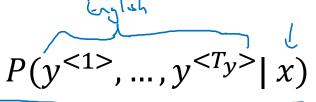
Picking the most likely sentence

Machine translation as building a conditional language model



Finding the most likely translation

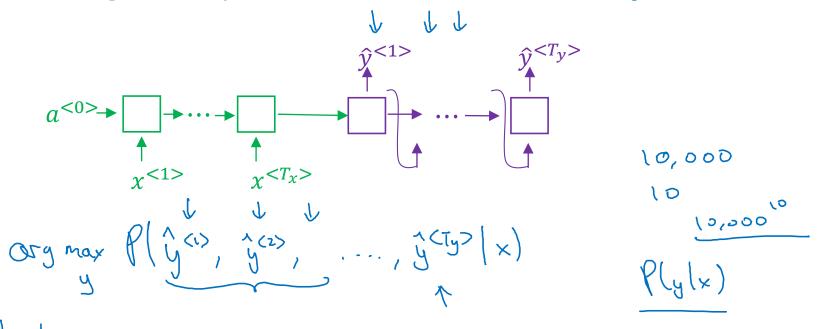
Jane visite l'Afrique en septembre.



- → 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?



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