



deeplearning.ai

# Sequence to sequence models

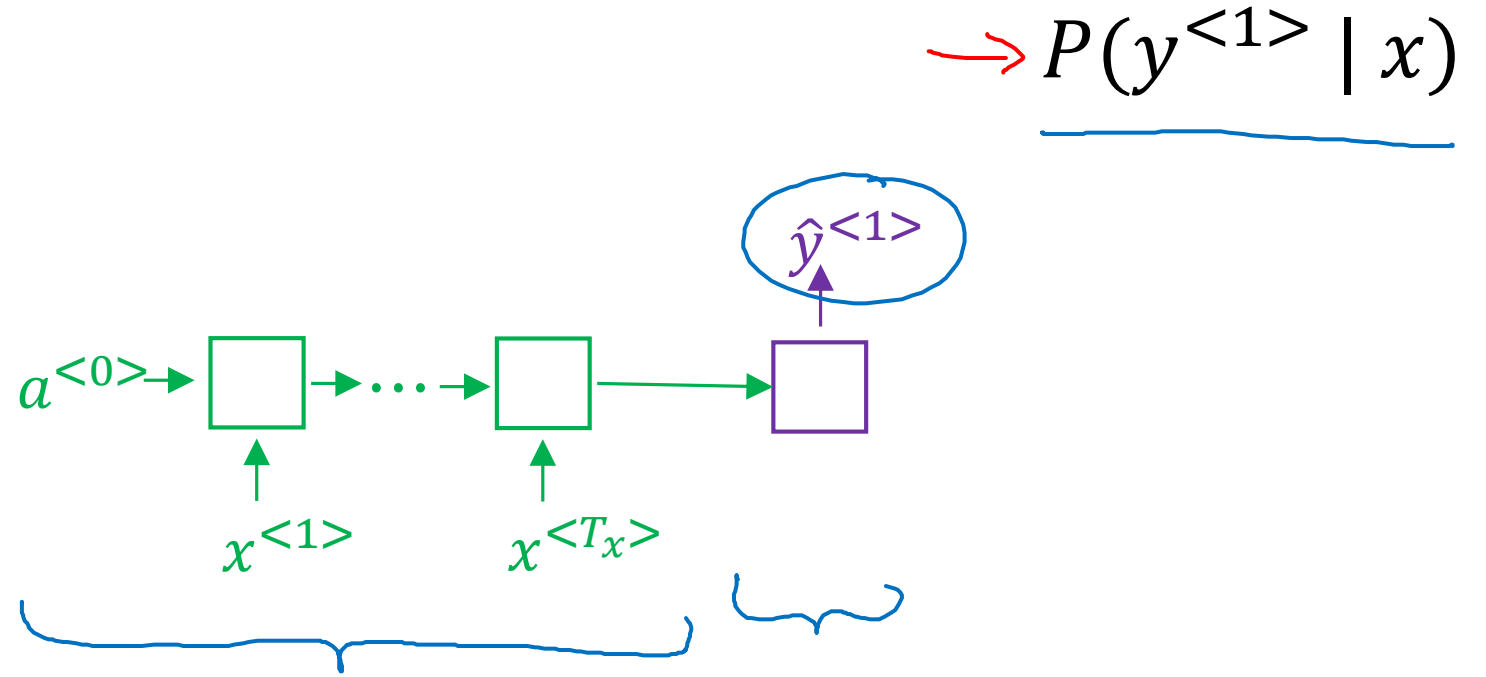
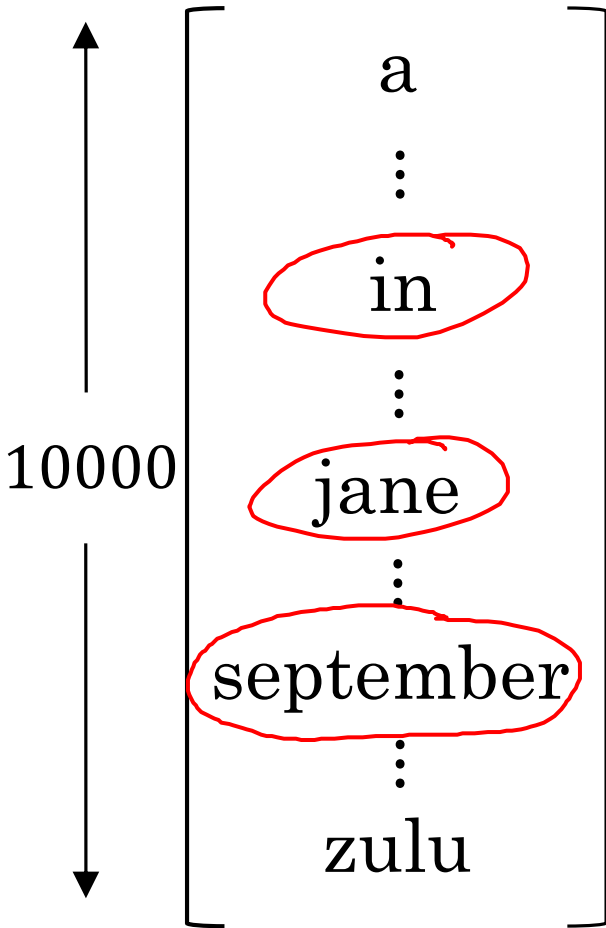
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## Beam search

# Beam search algorithm

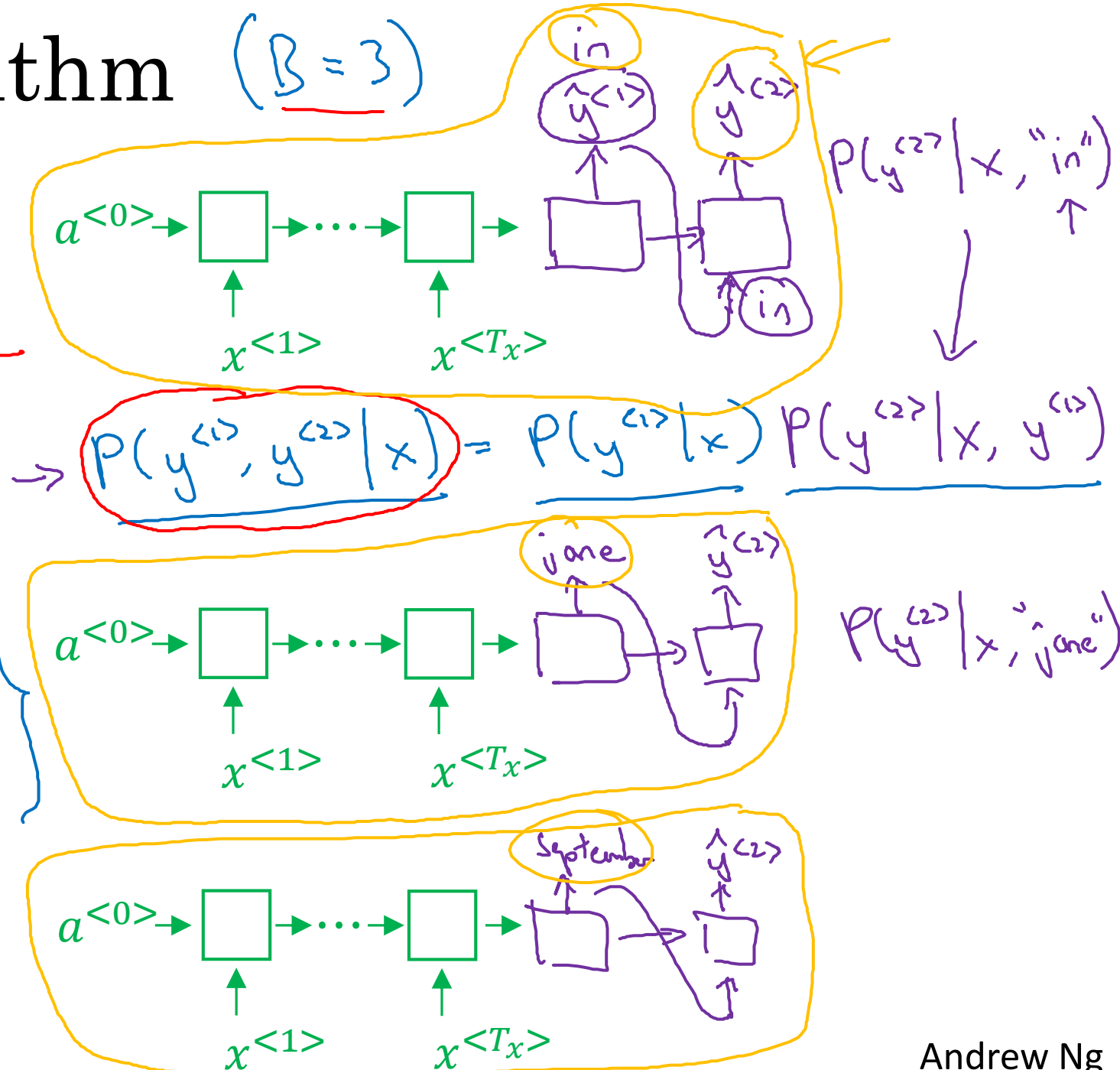
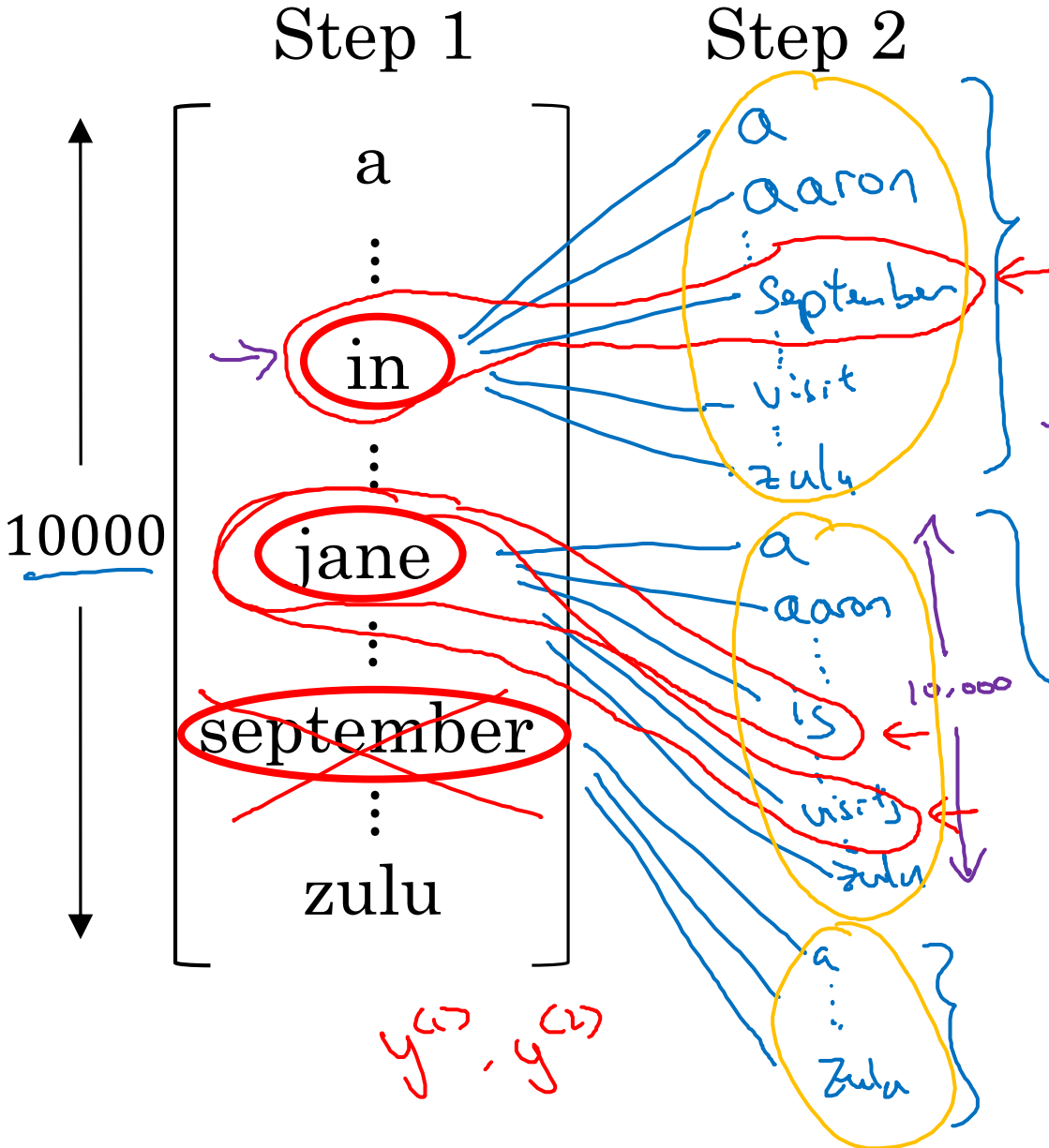
$B = 3$  (beam width)

Step 1



# Beam search algorithm

(B=3)

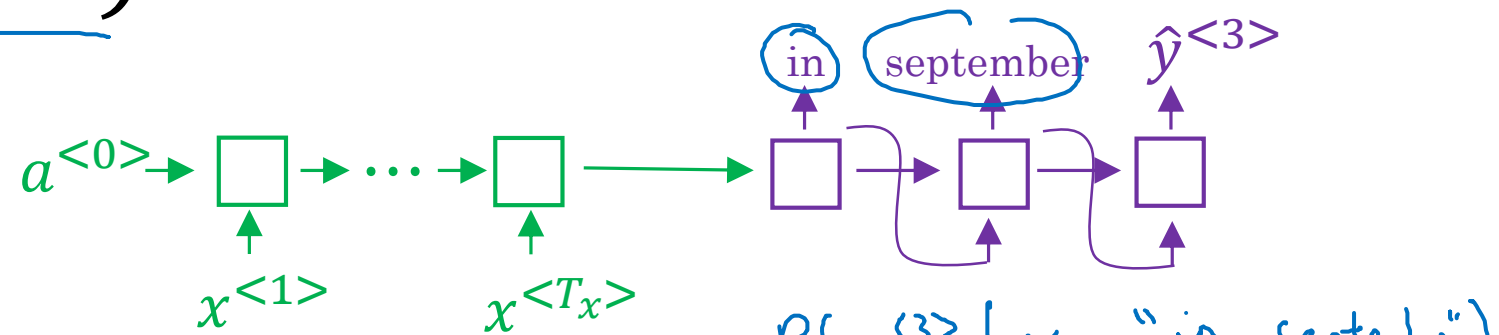


# Beam search ( $B = 3$ )

$B=1 \rightsquigarrow$  greedy search

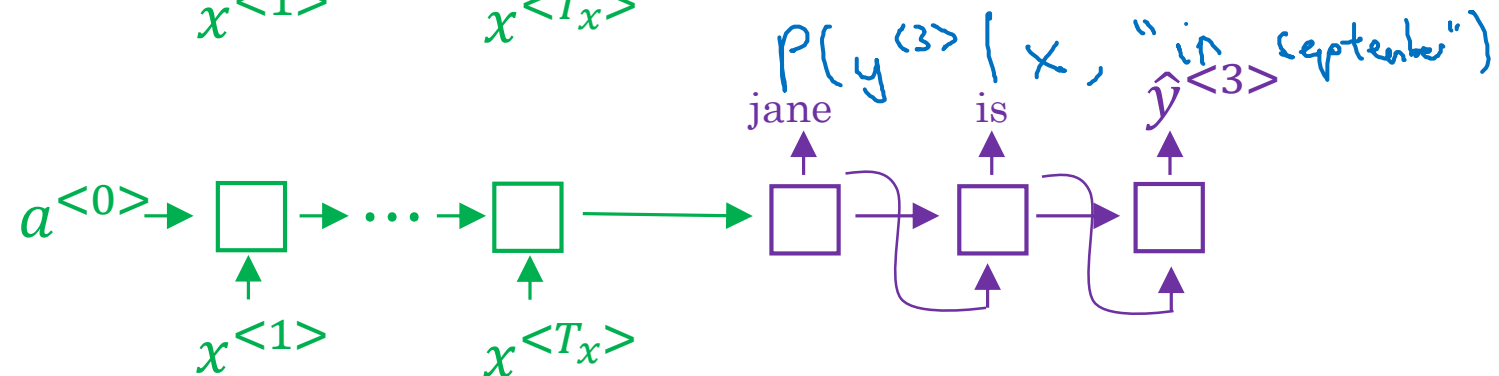
in september

*a*  
*aaron*  
*jane*  
*zulu*



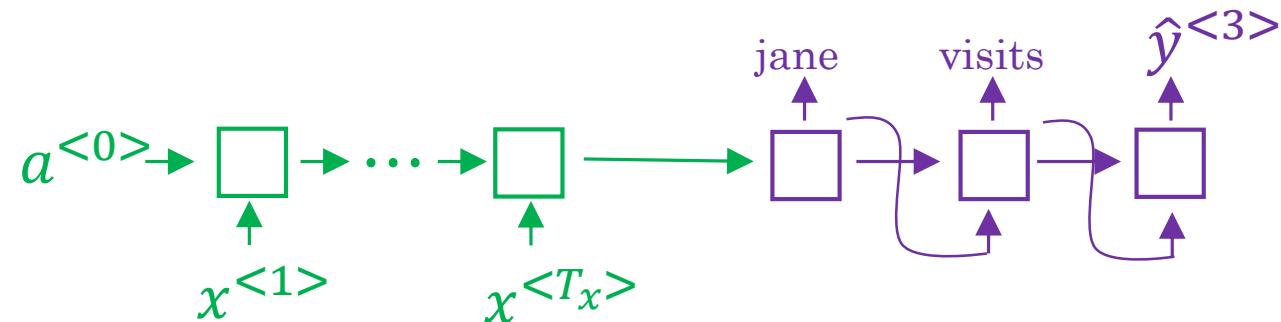
jane is

*a*  
*visits*  
*zulu*



jane visits

*a*  
*africa*  
*zulu*



$$P(y^{<1>}, y^{<2>} | x)$$

jane visits africa in september. <EOS>