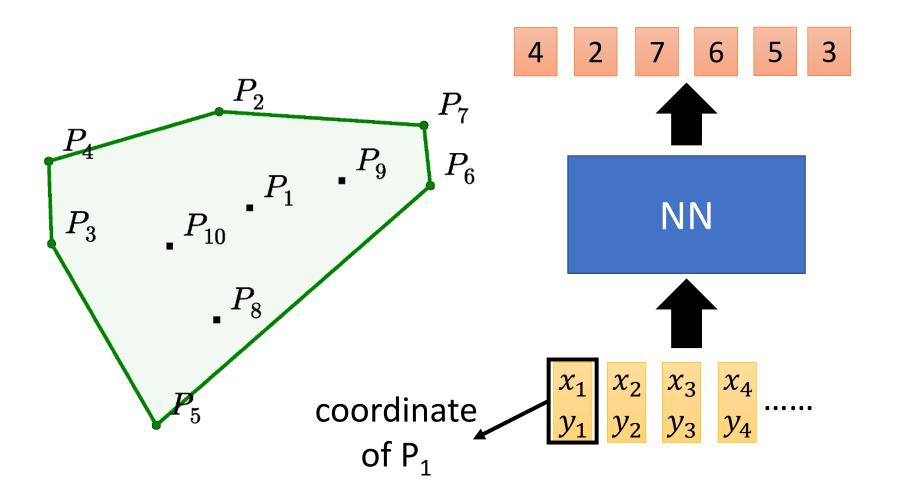
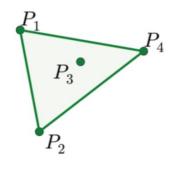
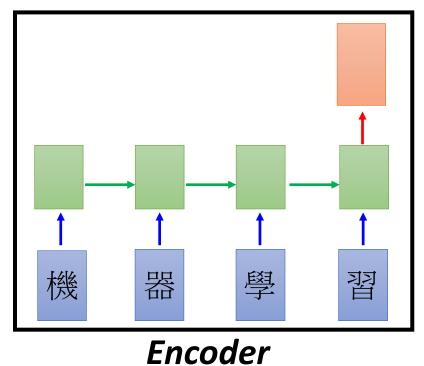
最早是想要解系列演算法的問題

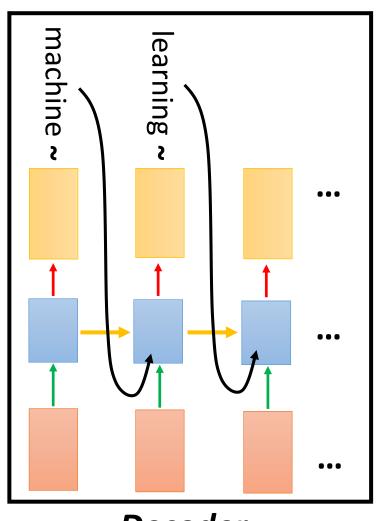
原始paper解了三個,以下介紹convex hole的問題



Sequence-to-sequence?



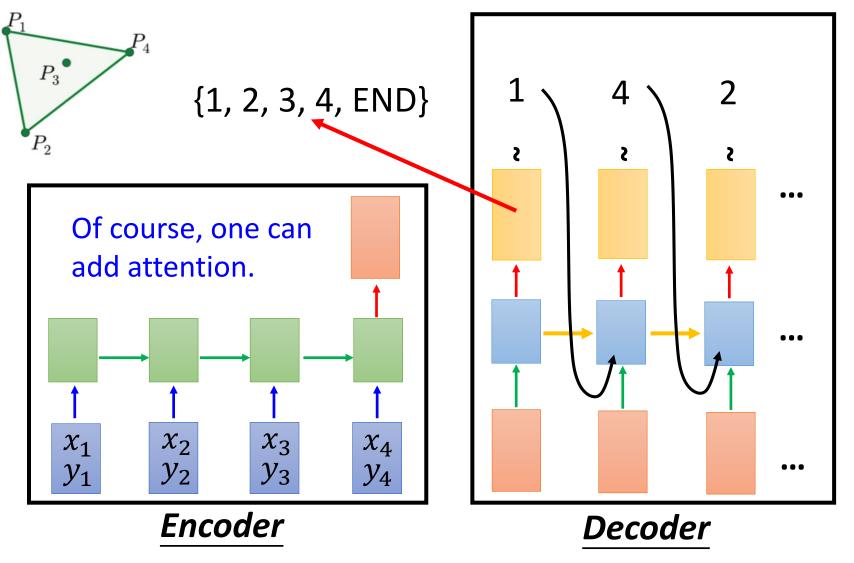




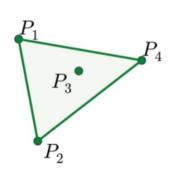
<u>Decoder</u>

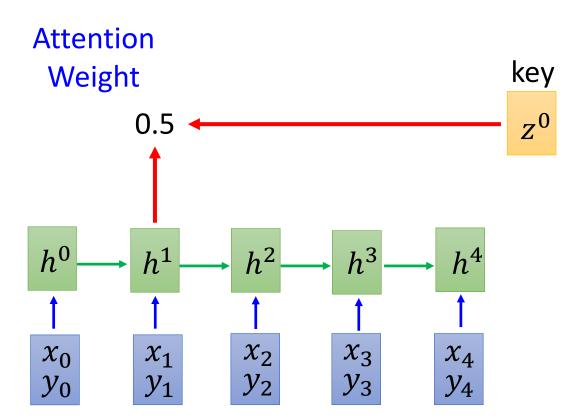
Problem?

Sequence-to-sequence?

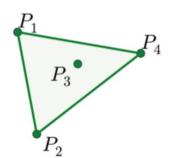


 $\begin{bmatrix} x_0 \\ y_0 \end{bmatrix}$: END





 $\begin{vmatrix} x_0 \\ y_0 \end{vmatrix}$: END

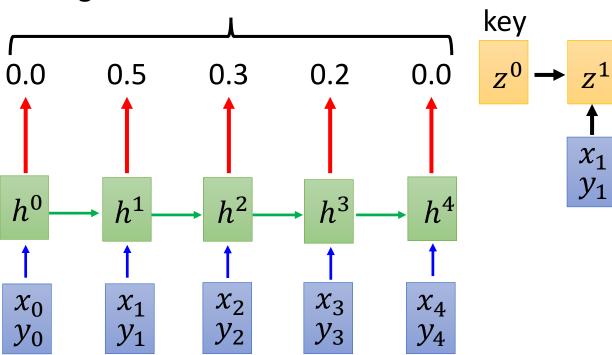


原本的attention model是做weighted sum,現在這邊改成直接argmax

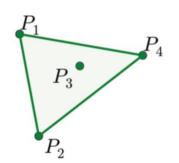


argmax from this distribution

What decoder can output depends on the input.



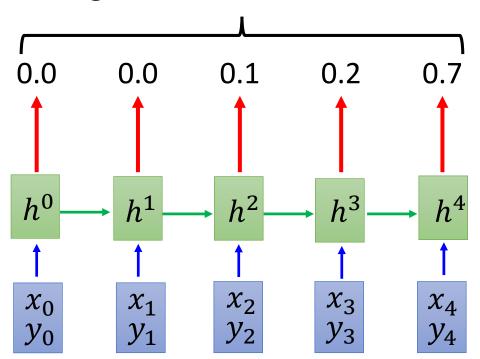


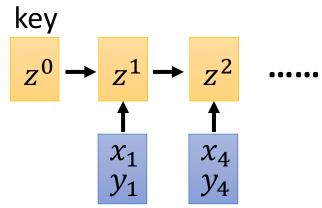


Output: 4

argmax from this distribution

What decoder can output depends on the input.





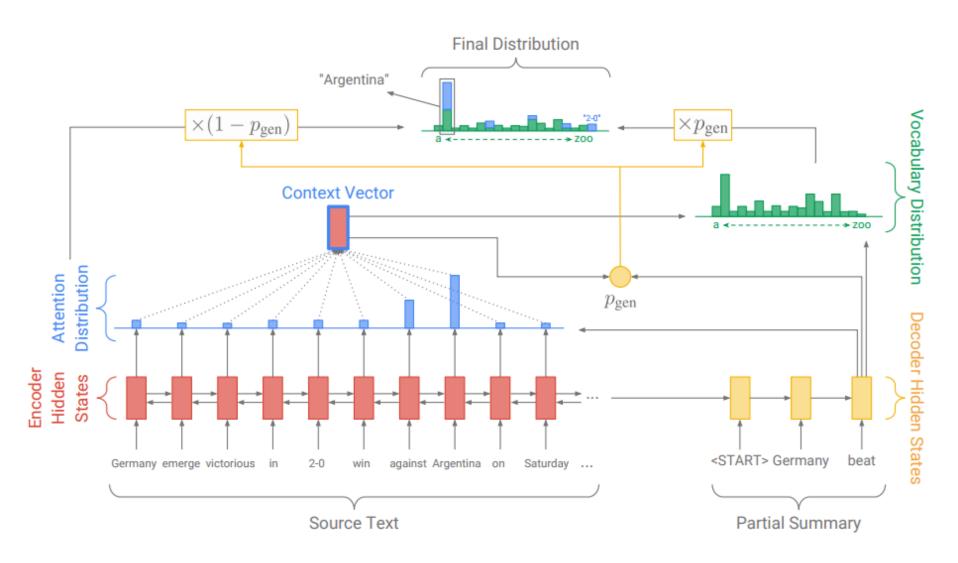
The process stops when "END" has the largest attention weights.

end出現代表x0, y0 attention最大

然而一般的seq2seq在testing時的output只能局限於training data中的word

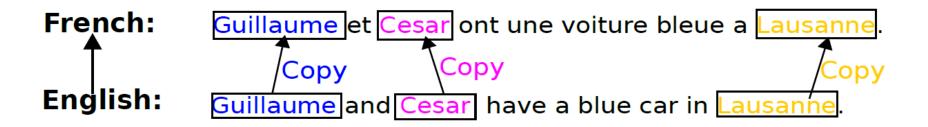
用了pointer network後的output可以based on input word而非單純依靠lexicon

Applications - Summarization



More Applications

Machine Translation



Chat-bot

User: X寶你好,我是庫洛洛

希望他直接copy input word,一般的seq2seq可能無法做到因為lexicon沒有這個字,採用pointer network可以直接copy

Machine: 車洛洛你好,很高興認識你