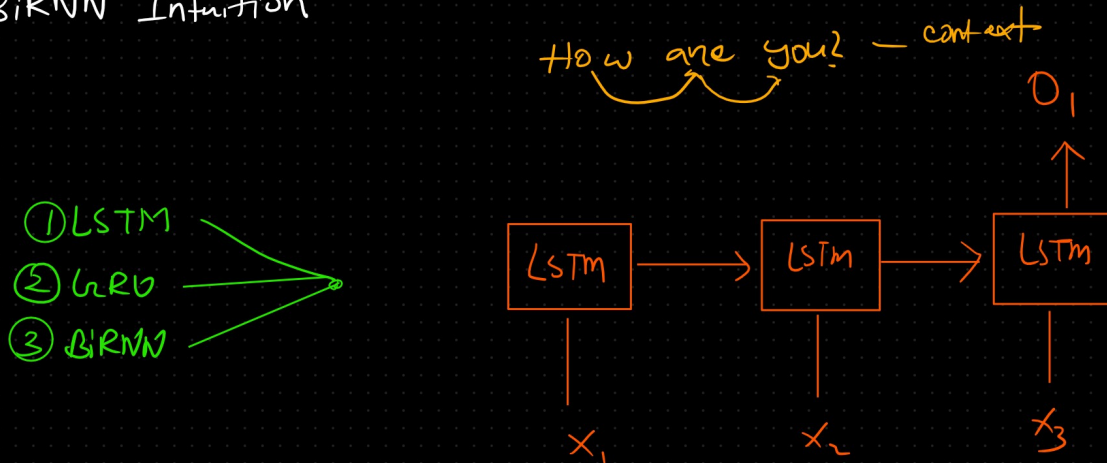
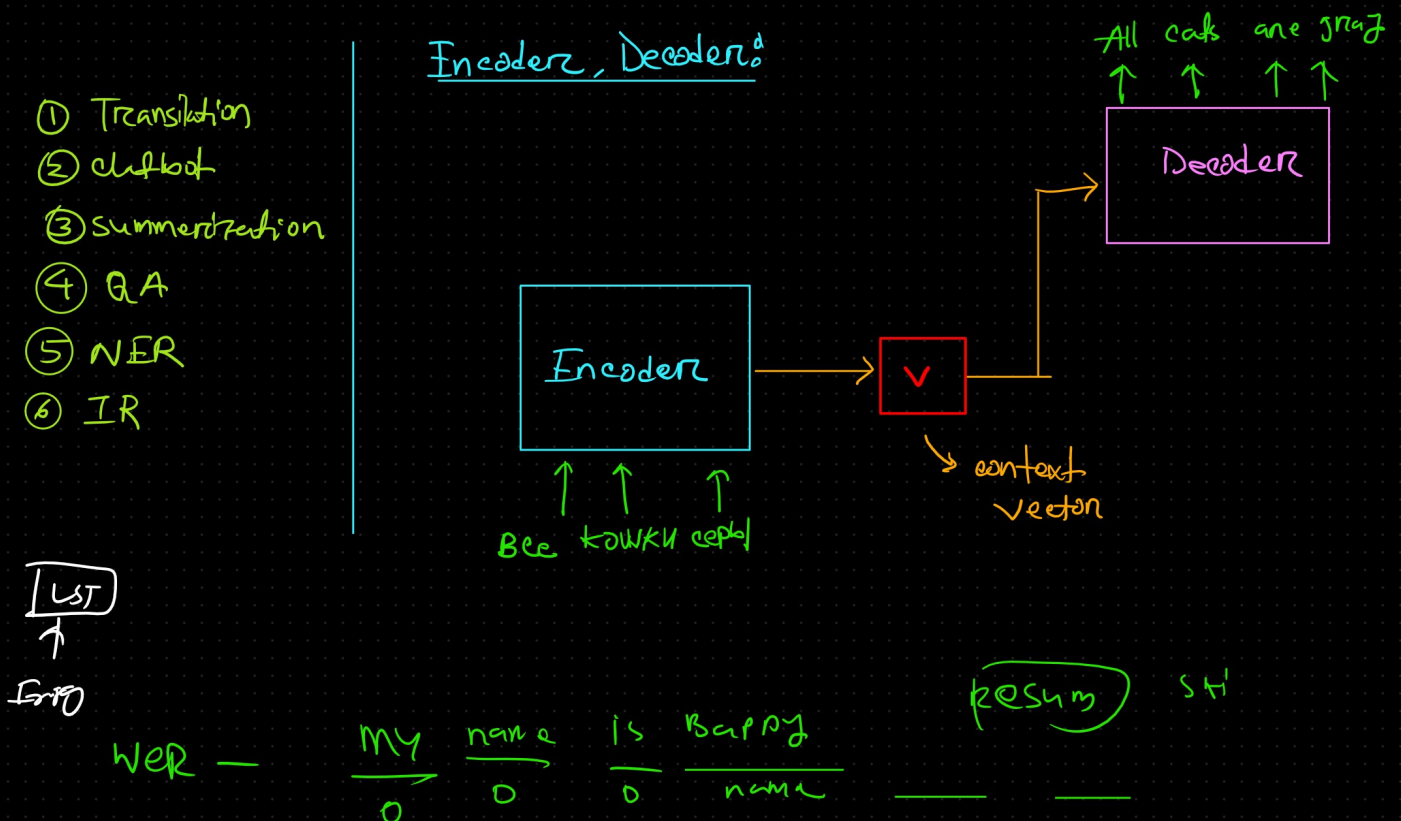


Agenda:

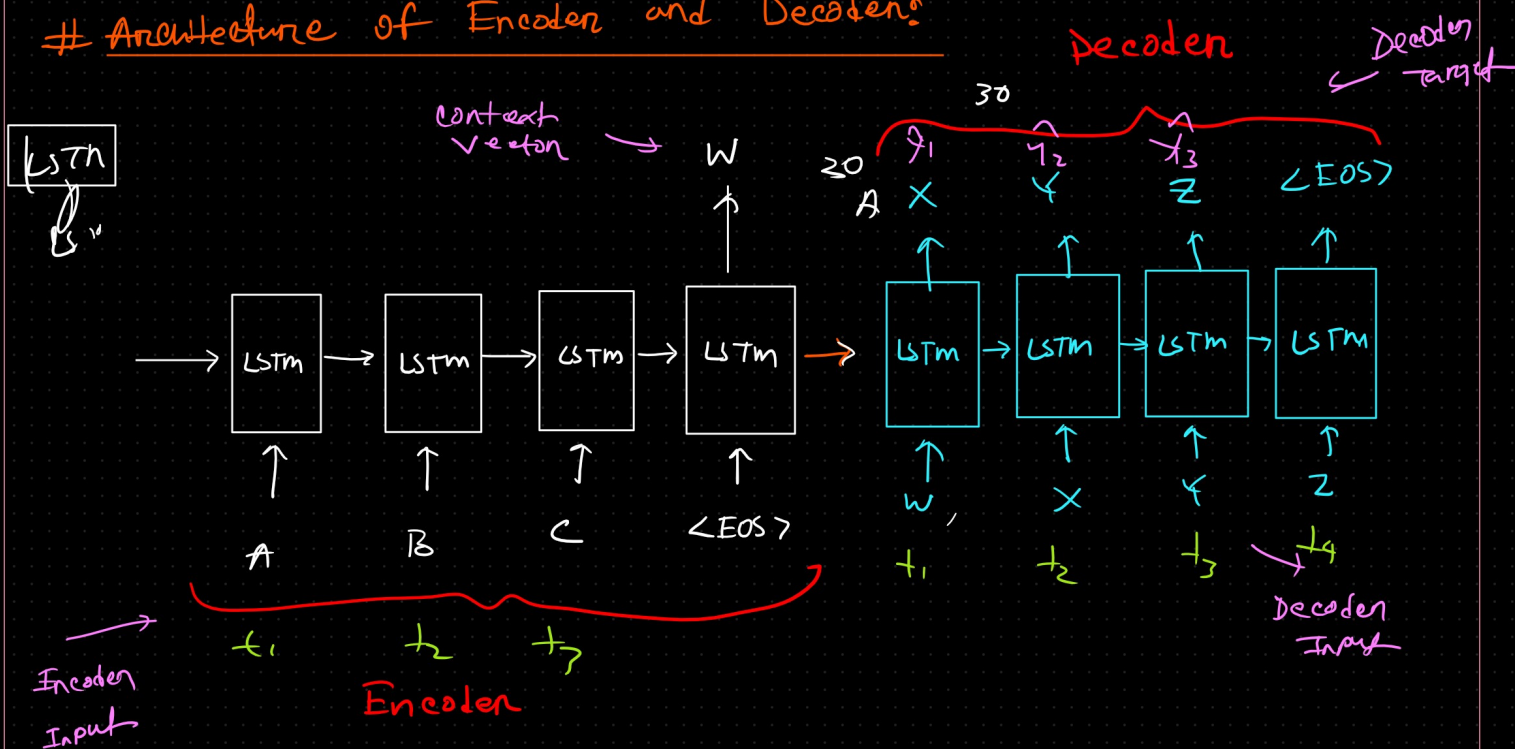
- ① Sequence to Sequence Learning
- ② Encoder and Decoder Architecture / Intuition
- ③ Problem with Encoder and Decoder
- ④ practical of Encoder, Decoder (Machine Translation) → Eng-Fra
- ⑤ BiRNN Intuition



⇒ Text classification



Architecture of Encoder and Decoder

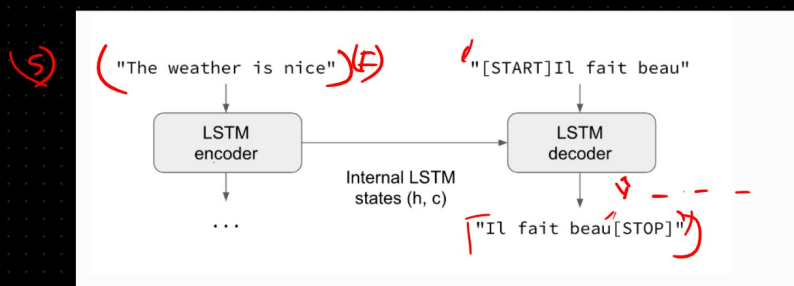


Trans $\rightarrow \langle s \rangle \langle EOS \rangle$

$\rightarrow \langle E \rangle / \langle n \rangle$

$\langle start \rangle$ how are you $\langle EOS \rangle$

How are you \rightarrow comment vas-tu?



$(\hat{y} - y)$ Loss

BP

$(\hat{y} - y)$ Loss

$$x = \langle x_1, x_2, x_3 \rangle \quad y = \langle y_1, y_2, y_3 \rangle$$

$$x = \langle x_1, x_3, x_3 \rangle \quad y = \langle y_1, y_2, y_3, y_4 \rangle$$

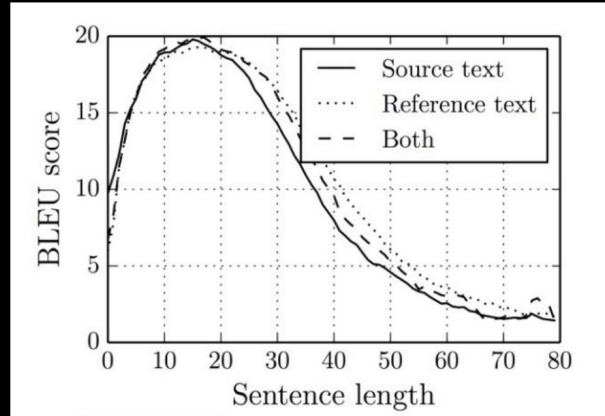
$$\hat{y}_1, \hat{y}_2, \hat{y}_3$$

$$- y_1, y_2, y_3 \rightarrow 0$$

loss error → BP

problem with Encoder and Decoder:

→ BLEU score



Word

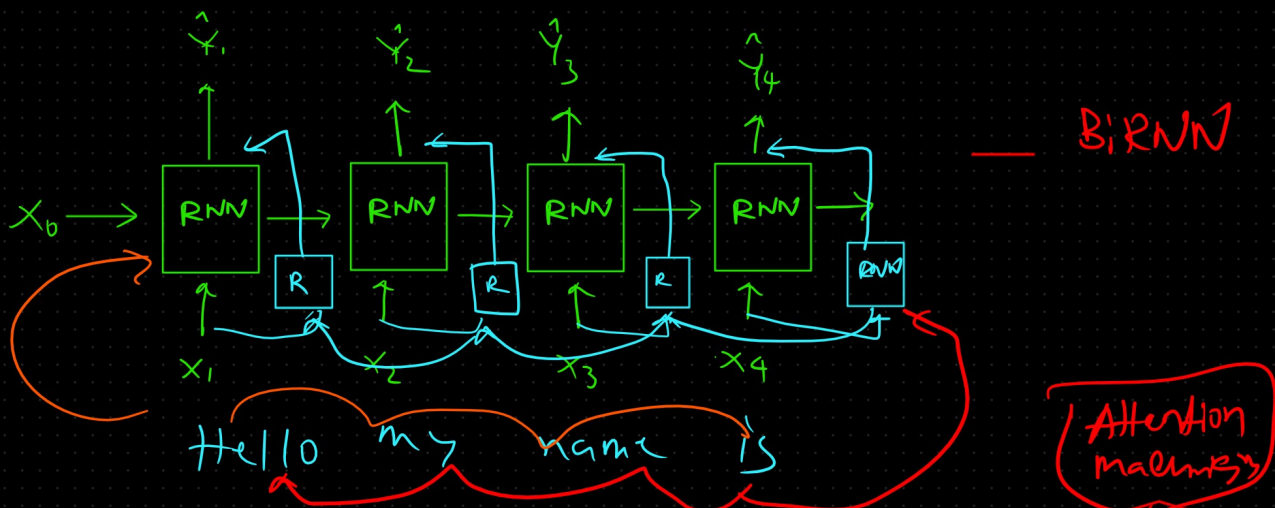
How are you
↑↑↑ ↑↑↑ ↑↑↑

le
/
/

How are you ?

How	are	you
1	0	◡
0	1	○
○	◡	1

Bidirectional RNN/LSTM/LRP: (BiRNN, BiLSTM, BiGRU):-



What is your name?

He likes eat Apple

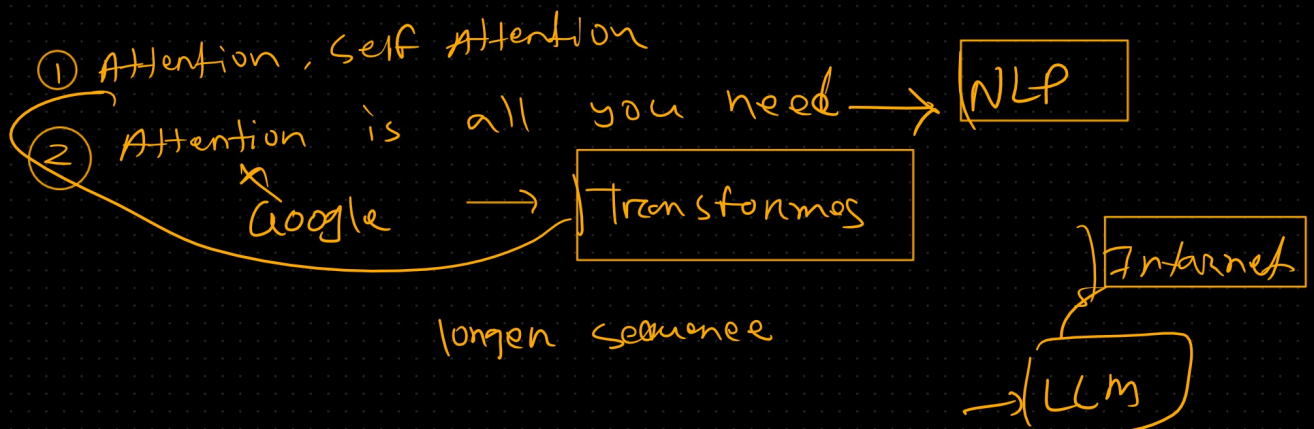
SV-3 mode

LSL ED

Hi my name is Barry. I am a OS

S_1 S_2 S_3

Tomorrow:



(APT, Band, Roboter) → Transaktionen

APT - (2m)
APS - (3b)

CA

