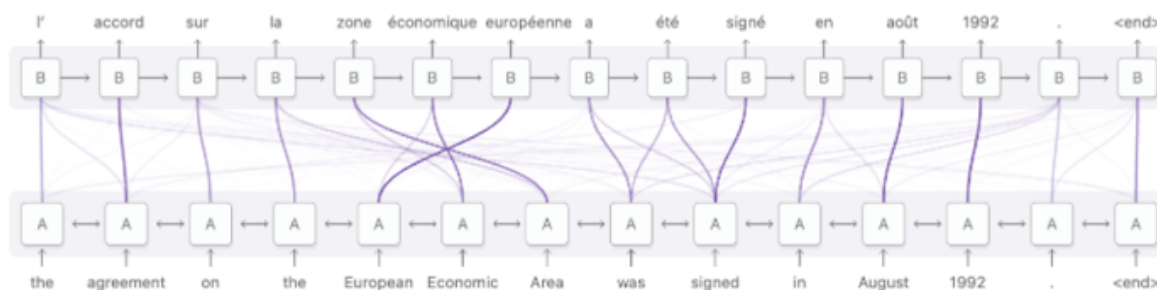


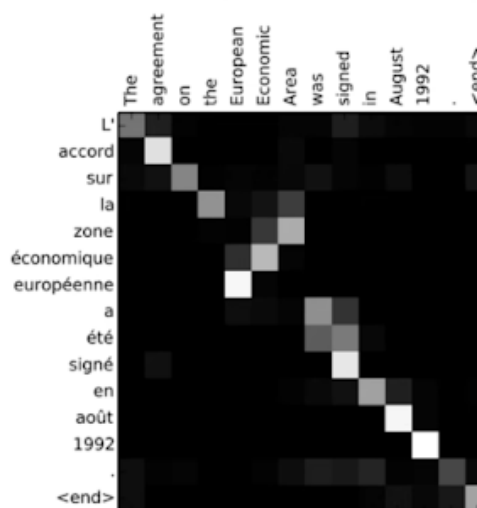
Alignment

1. Name

Consider the following Neural Machine Translation problem. The encoder is used to map the English Input Sequence "the agreement on the European Economic Area was signed in August 1992 . <end>" into a list of hidden states. Then, at each iteration of the decoder, we use all the hidden states weighted by the "attention weights" represented in the following figure:



The attention weights:



2. Which kind of RNN application are we dealing with ?

2 points

Mark only one oval.

- ☐ Many to One
- ☐ Many to Many (Aligned case)
- ☐ Many to Many (Unaligned case)

3. How many RNNs are represented in the previous figure ?

2 points

Mark only one oval.

- ☐ 1
- ☐ 2

4. The encoder RNN is represented with the letter

1 point

Mark only one oval.

- ☐ A
- ☐ B

5. The decoder RNN is represented with the letter

1 point

Mark only one oval.

- ☐ A
- ☐ B

6. How many encoder hidden states do we take into consideration when creating each input to the decoder ?

2 points

Mark only one oval.

- ☐ 14
- ☐ 1

7. To generate the word "zone", the input to the decoder assigns the highest weight to the hidden state associated with the input:

2 points

Mark only one oval.

☐ European

☐ Area

☐ signed

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