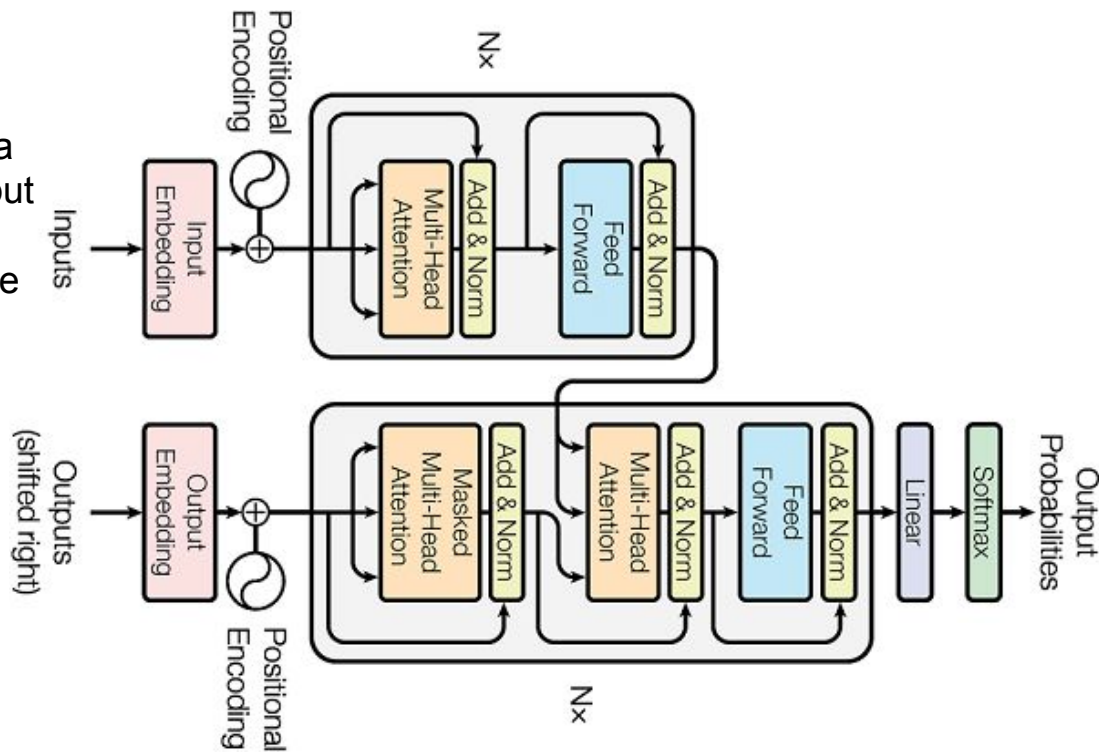


Recurrent Decoder

Explained

Traditional Decoder

Marco is using a sentence as input and he wants a shorter sentence as output.



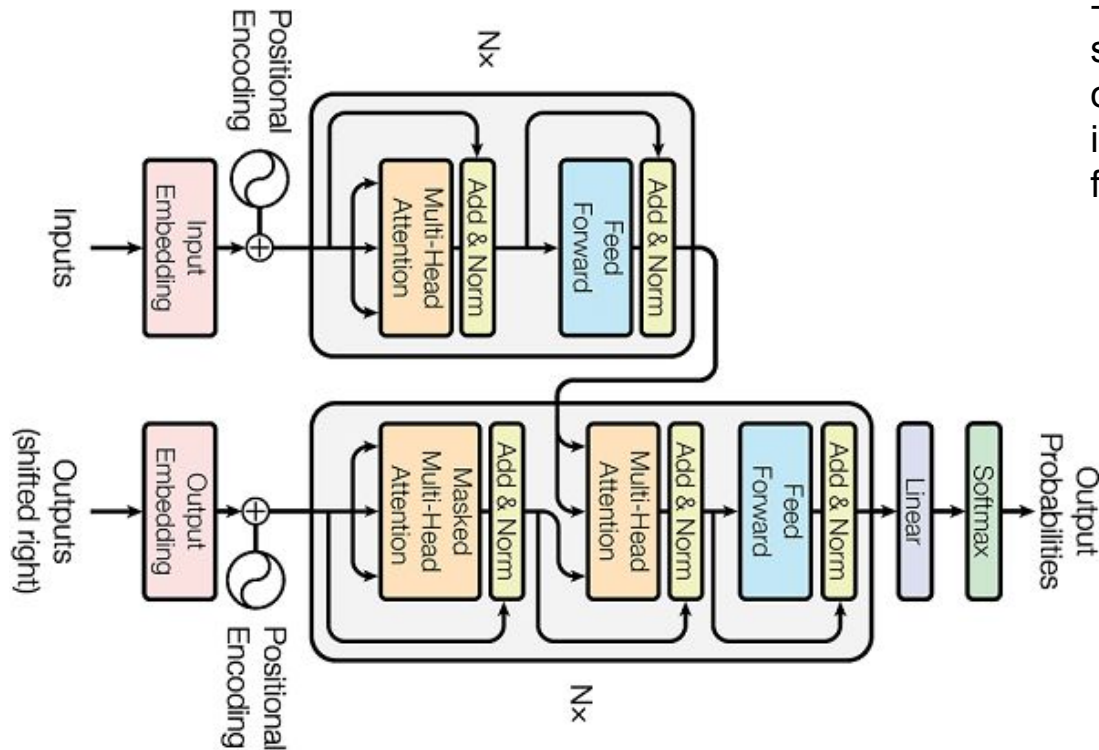
1. <BoS>
 2. <BoS> Marco
 3. <BoS> Marco
 4. _is
 5. <BoS> Marco
- _is
_summarizing
1. <BoS> Marco
 2. _is
 3. _summarizing.

1. Marco
2. _is
3. _summarizing
4. .
5. <EoS>

Traditional Decoder if Sentence Too Long

Marco is using a long sentence as input and he wants a shorter

1. <BoS>
2. <BoS> Marco
3. <BoS> Marco
_is
4. <BoS> Marco
_is
_summarizing



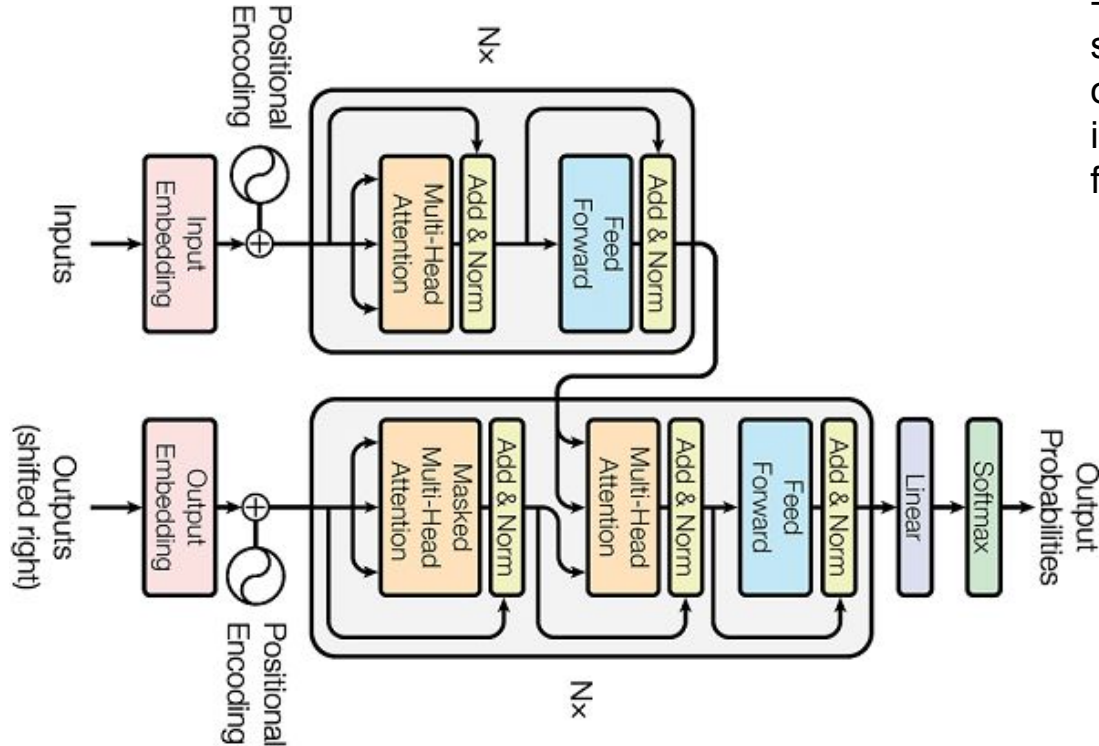
Marco is using a long sentence as input and he wants a shorter

sentence as output. But the input is too big to fit into the model.

1. Marco
2. _is
3. _summarizing
4. <EoS>

Traditional Decoder if Sentence Too Long

sentence as output. But the input is too big to fit into the model.



1. <BoS>
2. <BoS> Input
3. <BoS> Input
4. <BoS> Input
5. <BoS> Input

Marco is using a long sentence as input and he wants a shorter

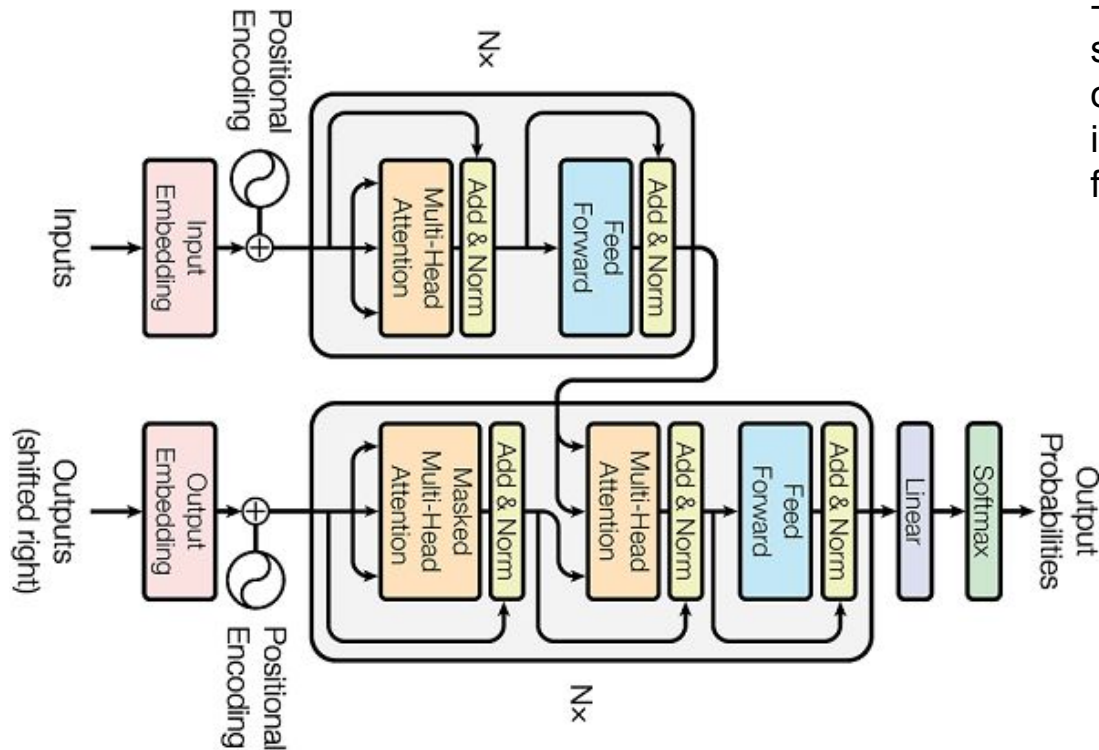
sentence as output. But the input is too big to fit into the model.

1. Input
2. _too
3. _long
4. .
5. <EoS>

Recurrent Decoder if Sentence Too Long

Marco is using a long sentence as input and he wants a shorter

1. <BoS>
2. <BoS> Marco
3. <BoS> Marco
_is
4. <BoS> Marco
_is
_summarizing



Marco is using a long sentence as input and he wants a shorter

sentence as output. But the input is too big to fit into the model.

1. Marco
2. _is
3. _summarizing
4. <EoS>

Recurrent Decoder if Sentence Too Long

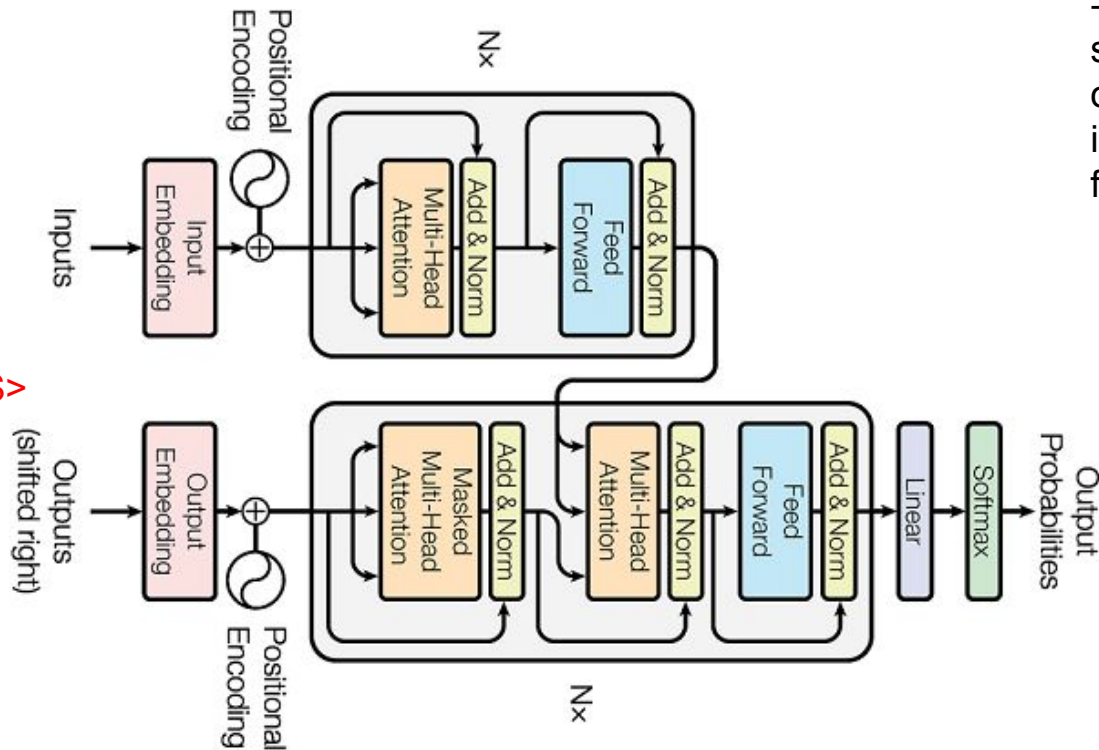
Marco is using a long sentence as input and he wants a shorter

sentence as output. But the input is too big to fit into the model.

sentence as output. But the input is too big to fit into the model.

First we remove <EoS>

1. <BoS> Marco
_is
_summarizing
2. <BoS> Marco
_is
_summarizing,
etc...
- 3.



1. ,
2. _input
3. _too
4. _long
5. .
6. <EoS>

Traditional vs Recurrent Decoder if Input Too Long

Marco is using a long sentence as input and he wants a shorter

sentence as output. But the input is too big to fit into the model.

Traditional

Marco is summarizing input too long.

Recurrent

Marco is summarizing, input too long.