Understanding Sequence-to-Sequence Modeling



Seq-2-Seq model is built using Recurrent Neural Networks





- Seq-2-Seq model is built using Recurrent Neural Networks
- Both input and output are sequences

 - Numbers (such as Time Series)
 - Audio



- Seq-2-Seq model is built using Recurrent Neural Networks
- Both input and output are sequences

 - Numbers (such as Time Series)
 - Audio





- Seq-2-Seq model is built using Recurrent Neural Networks
- Both input and output are sequences

 - Numbers (such as Time Series)
 - Audio



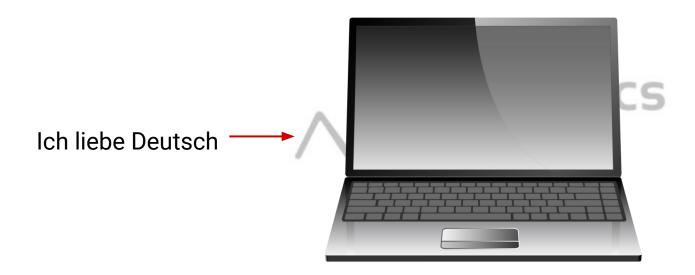


Need for Sequence to Sequence Modeling















Ich liebe Deutsch















Heute war ein anstrengender Tag













Heute war ein anstrengender Tag

today war on strenuous day



Heute war ein anstrengender Tag

today war on strenuous day



Heute war ein anstrengender Tag

today war on strenuous day



It was a busy day today



☐ There is no notion of synchrony between input and output.





- There is no notion of synchrony between input and output
- Count of words can be different





- There is no notion of synchrony between input and output
- Count of words can be different
 - "have a good day" -> "haben Sie einen guten Tag"



- There is no notion of synchrony between input and output
- Count of words can be different
- □ Different languages have different grammar





