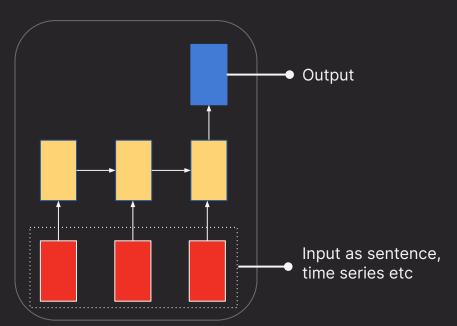




1. Many to One

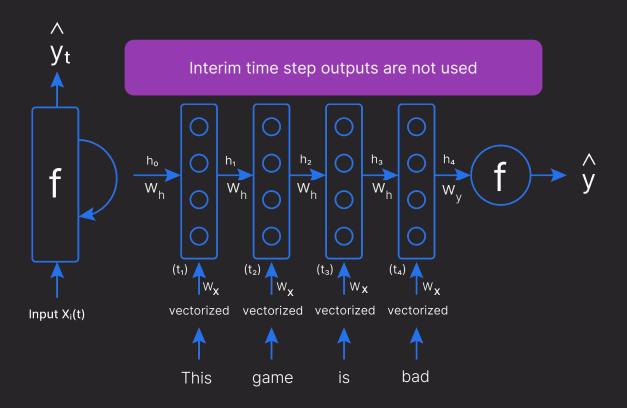


 Expects sequential data in input and non sequential data in output.

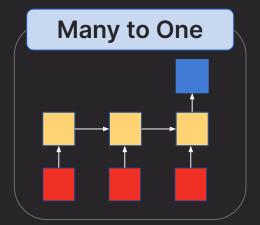
For example:

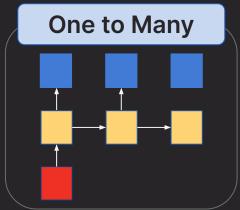


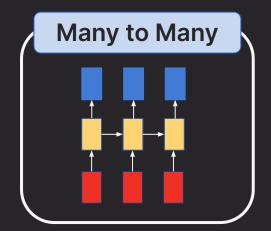
1. Many to One

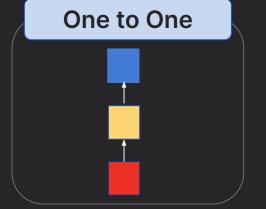


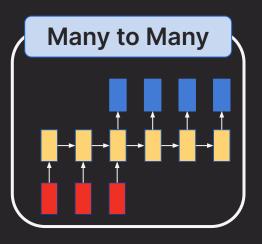


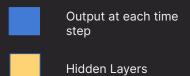








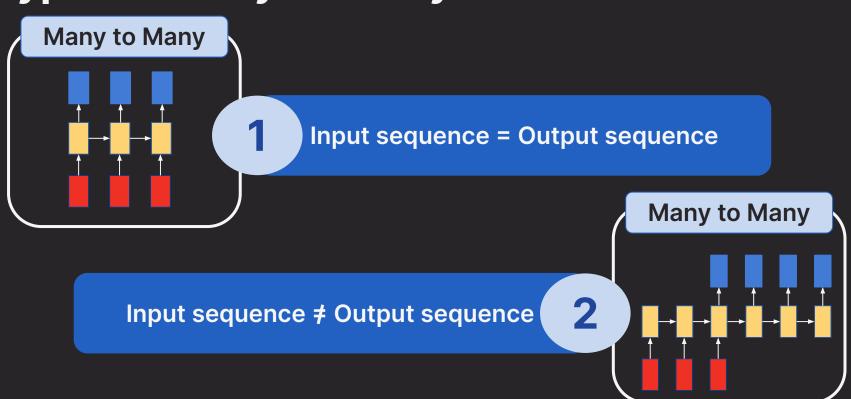






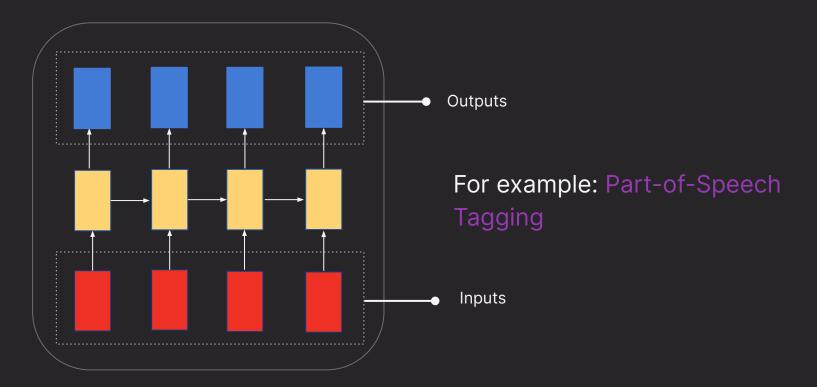


Types of Many-to many RNN



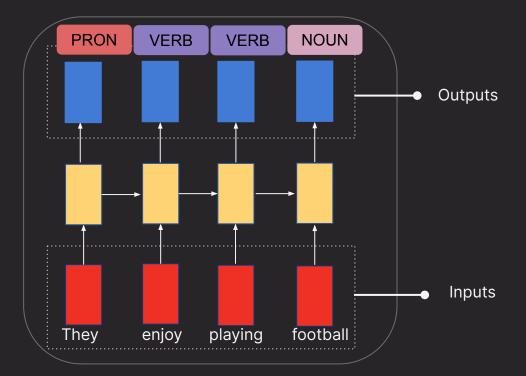


1 Input sequence = Output sequence



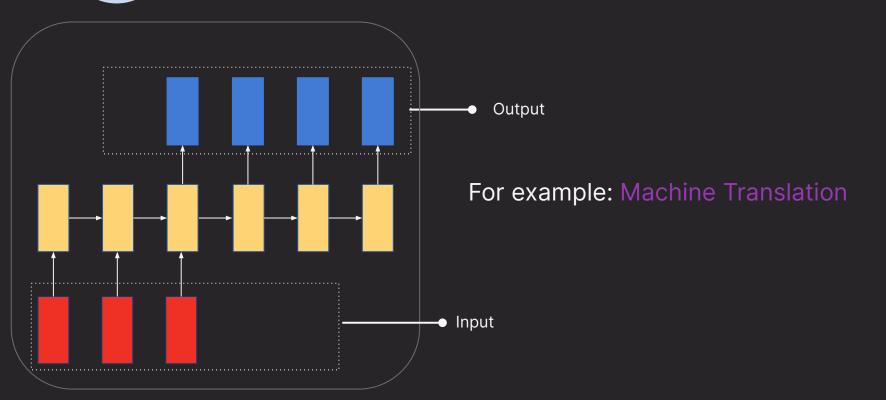


1 Input sequence = Output sequence



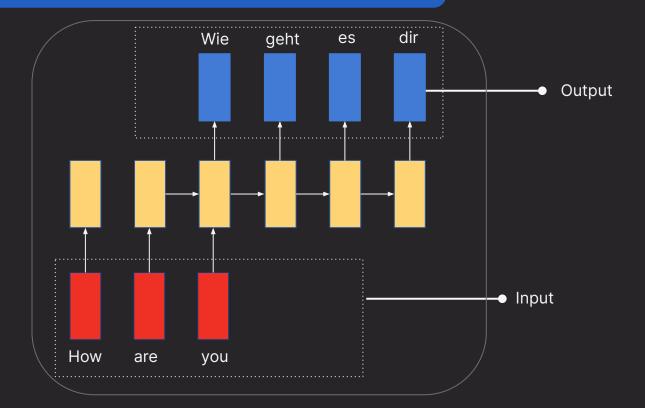


2 Input sequence # Output sequence

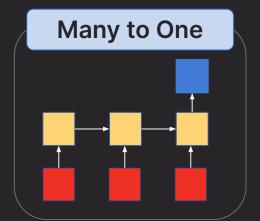


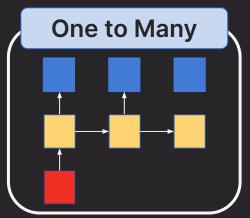


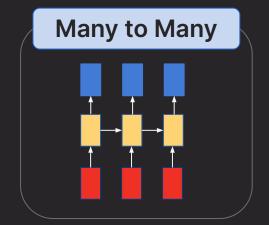
2 Input sequence # Output sequence

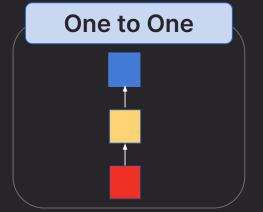


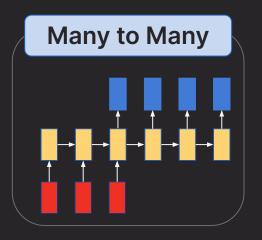


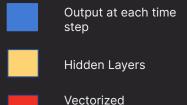








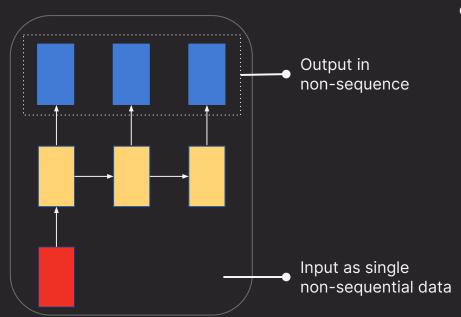




Input



3. One to Many

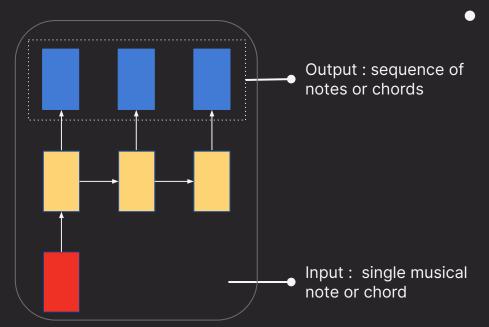


 Expects non sequential data in input and sequential data in output.

For example: Image Captioning



3. One to Many

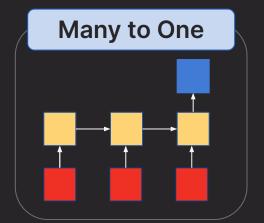


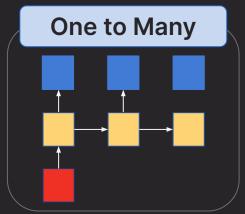
Expects non sequential data in input and sequential data in output.

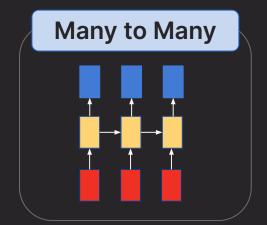
For example:

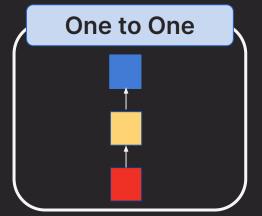
Music Generation

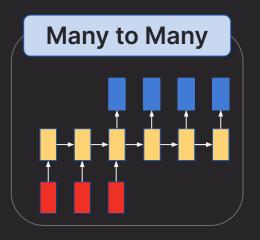


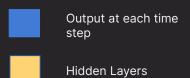








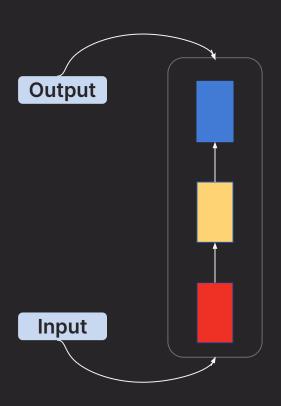








4. One to One



 Expects non sequential data in both input and output.



Thank you