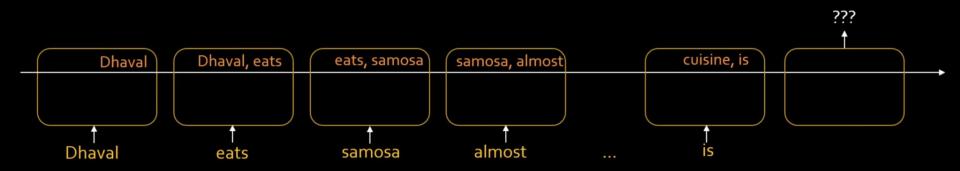


Basic RNN suffer from short term memory problem

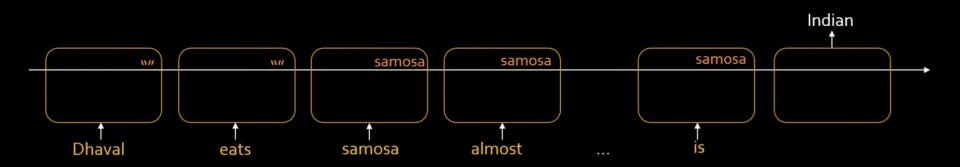
Dhaval eats samosa almost everyday, it shouldn't be hard to guess that his favorite cuisine is Indian

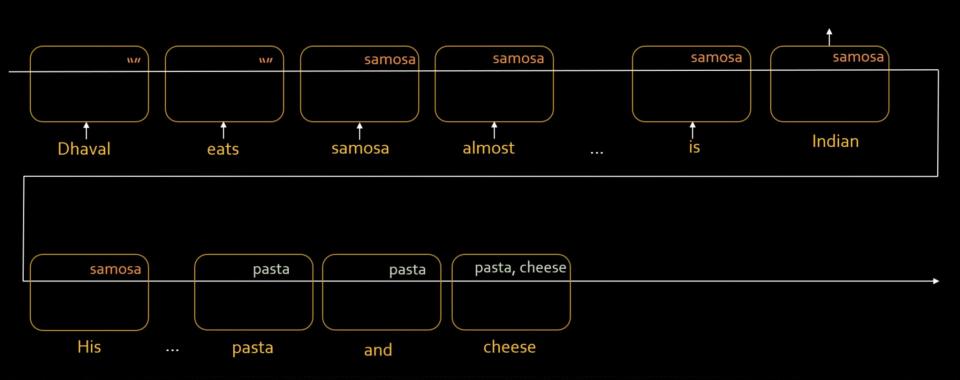


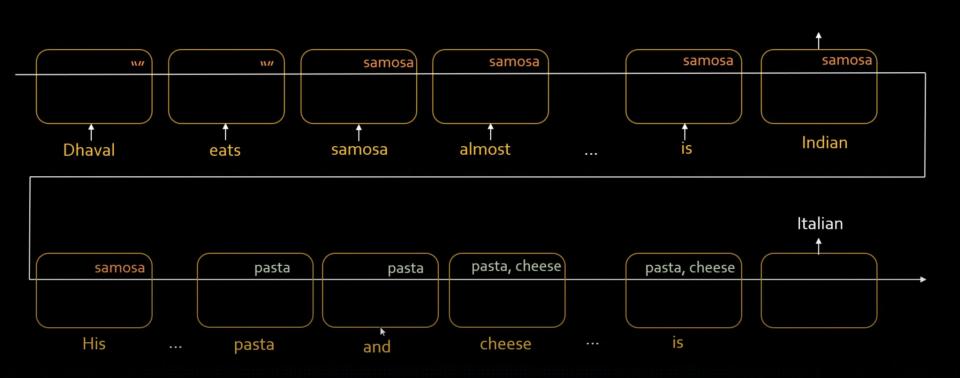
Traditional RNN

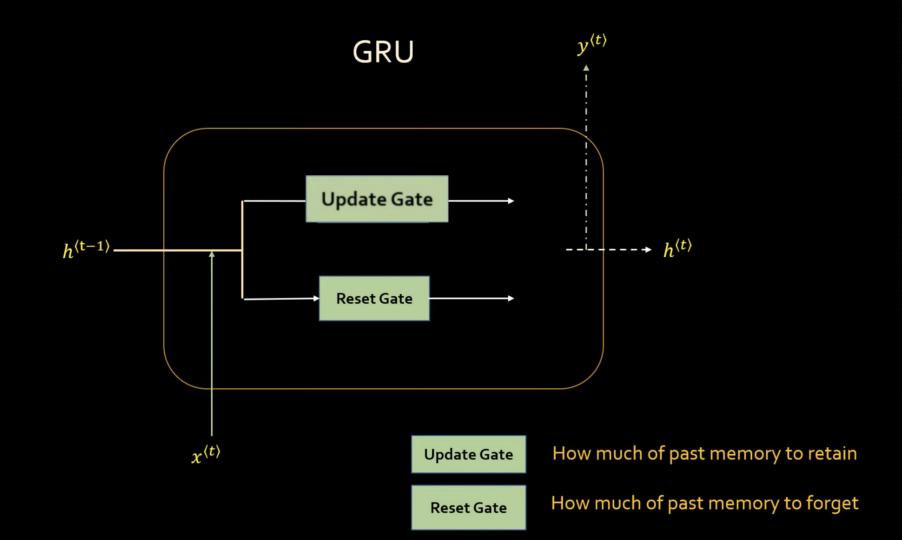


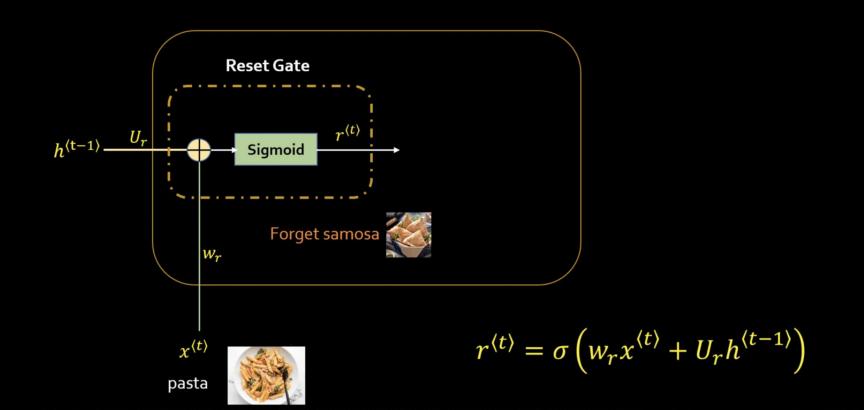
Dhaval eats samosa almost everyday, it shouldn't be hard to guess that his favorite cuisine is Indian

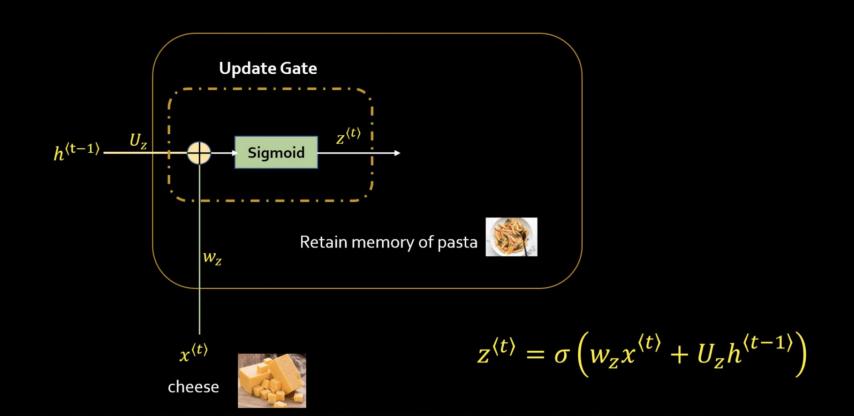


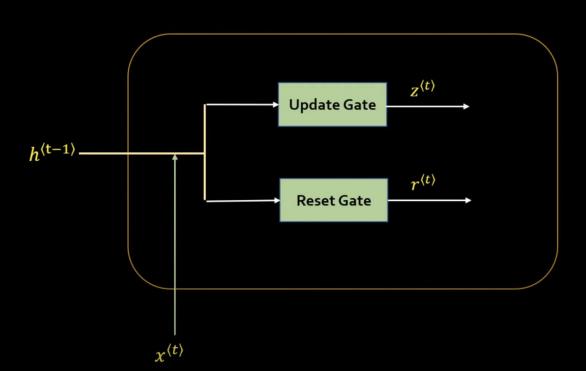


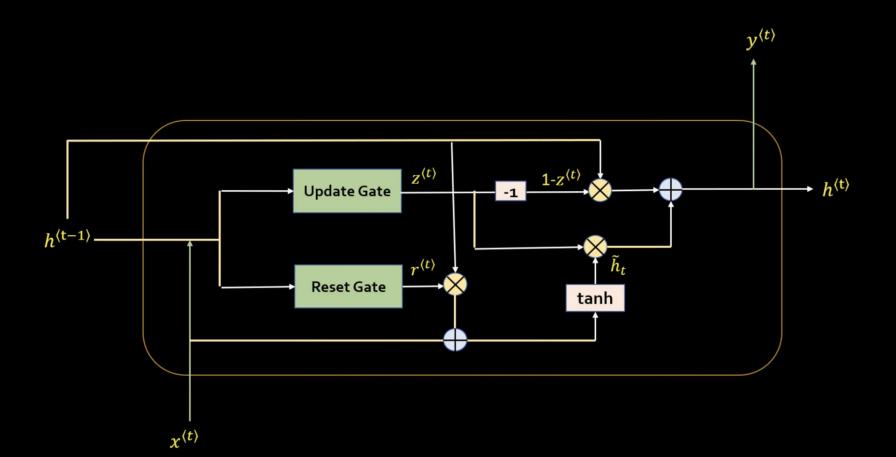












LSTM	GRU
3 Gates: Input, output, forget	2 Gates: reset, update
More accurate on longer sequence, less efficient	More efficient computation wise. Getting more popular

Invented: 2014

Invented: 1995 - 1997