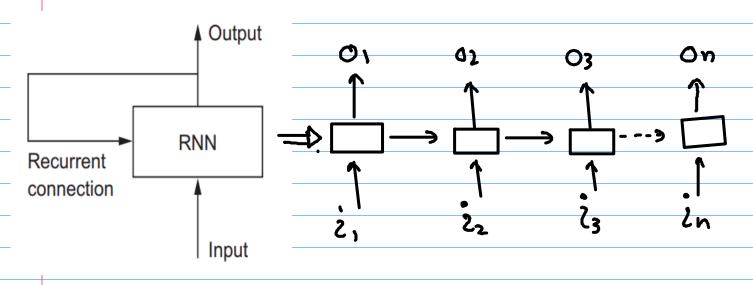
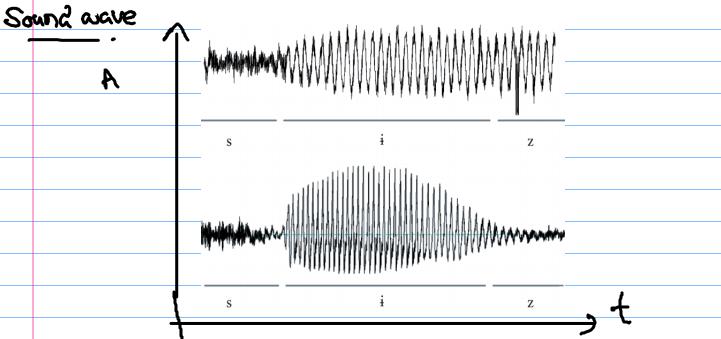
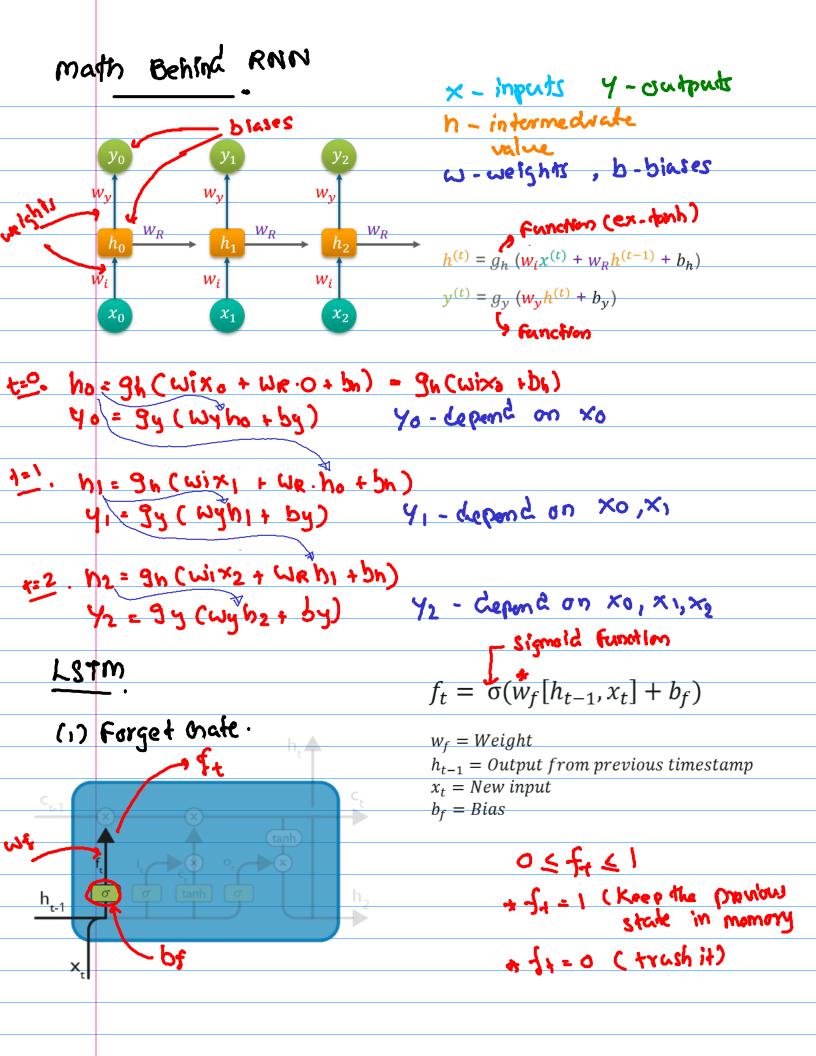
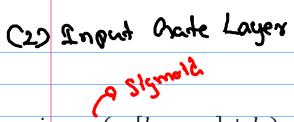


Recurrent Neural Networks





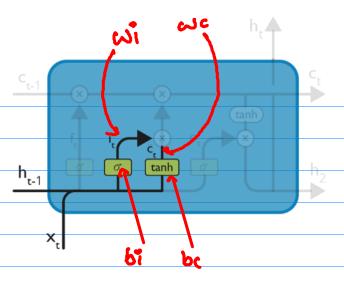




$$i_t = \sigma(w_i[h_{t-1}, x_t] + b_i)$$

$$\tilde{c}_t = tanh(w_c[h_{t-1}, x_t] + b_c)$$

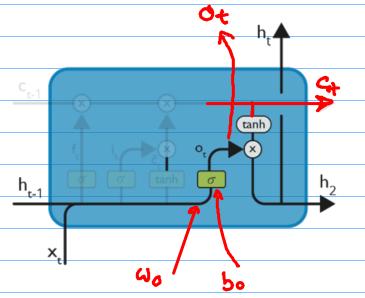
t hyberbolic tan



(3) output conte

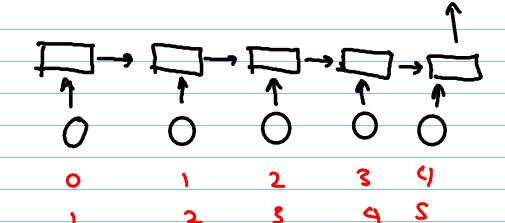
$$o_t = \sigma(w_o[h_{t-1}, x_t] + b_o)$$

$$h_t = o_t * tanh(c_t)$$



1.0 RNN For a Simple problem

data	target
0,1,2,3,9	s ·
_	6
1,2,8,4,5 2,3,4,5,6	7
2,3,7,3,0	·



	Word 2 Vec
	mother, father, Brother workshalang
	0.3 1.5
	<u> </u>
	2-5 2.2 2.1
	5 5
	King - man + Women = Queen
	<u> </u>
	6.7
	C and the Para a Thate
	France - paris + Rome = Italy
Cr	at-Bot Plan
conversations	
	to to vood
	data target
	, b
	pokenize
	J .
	ve ctrolzed
•	tret 1 train (vector)
Sendence	stoke succtri -> RNN -> Result -> Sentonce