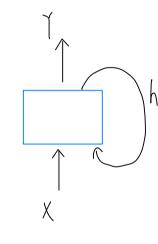
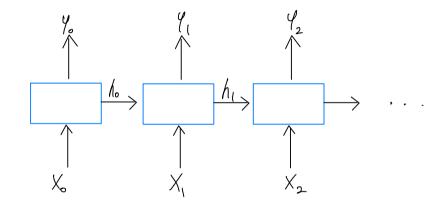
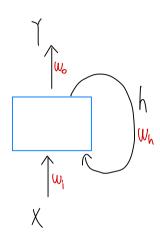
Recurrent Naval Networks. (RNN).

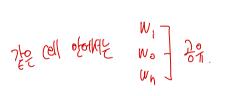
=) AAlog GIOLET HAGEN 921.

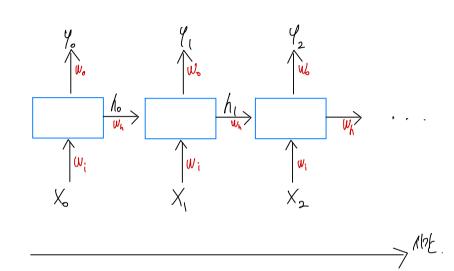




, Alok







If timester = 100, Wh=2?

in Relu.

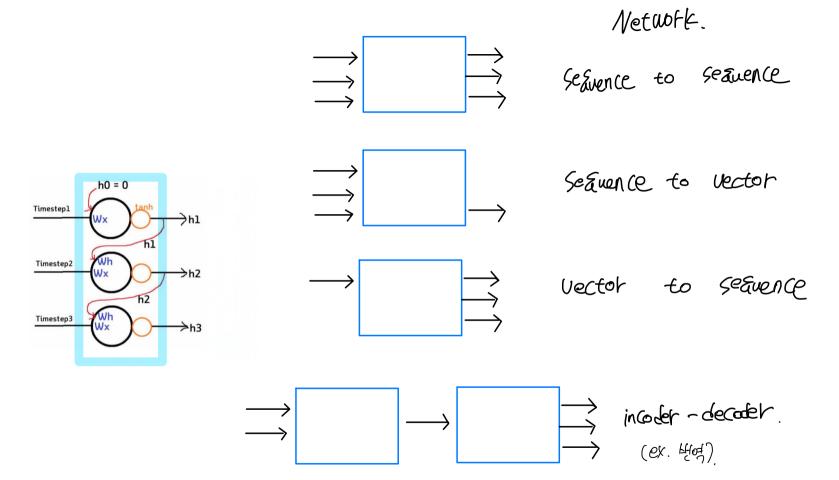
$$y=z$$
.

 $y=z$.

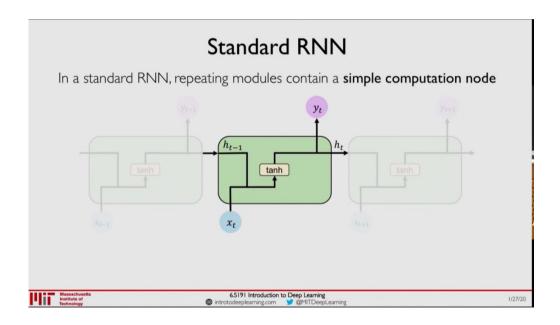
 $y=$

X(2) 1000

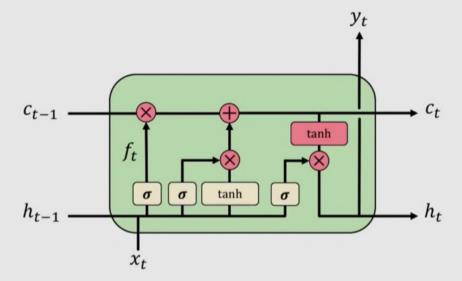
"Value 12"



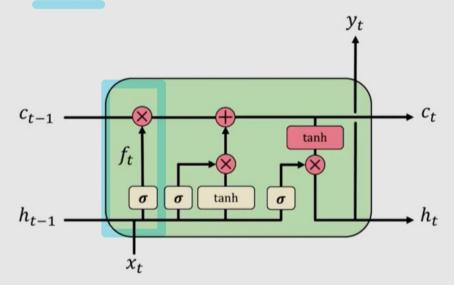
LSTM. (long short-term memory).
Simple RNN + long term memory



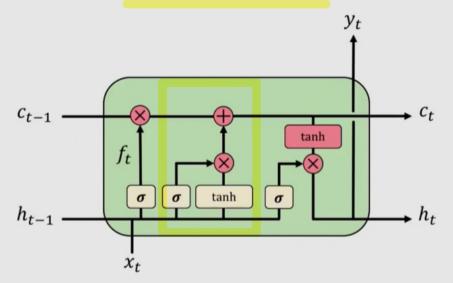
How do LSTMs work?



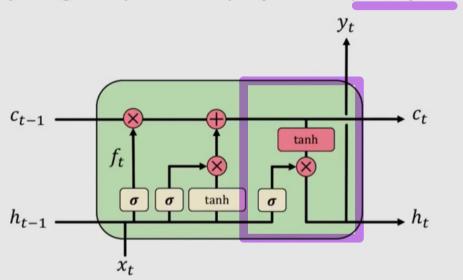
How do LSTMs work?



How do LSTMs work?



How do LSTMs work?



#GRU. (goted recurrent unit).

LSTM 7/534

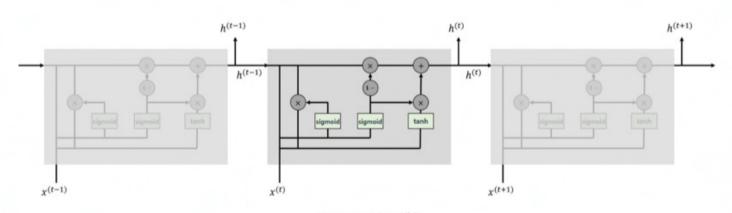


Figure 1: GRU, 개요

il Reset

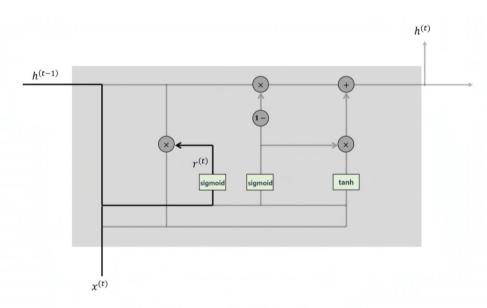


Figure 2: GRU, Reset Gate

ii) Update

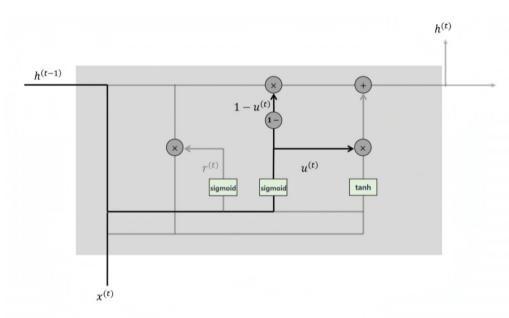
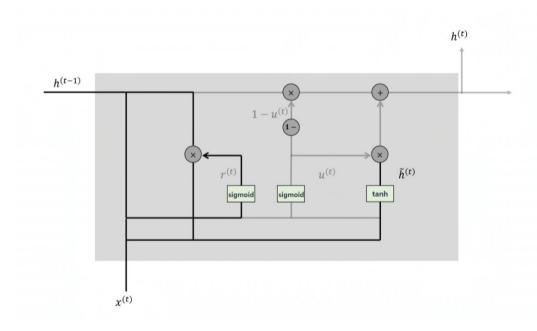


Figure 3: GRU, Update Gate

iii) Cardidate



iv) output

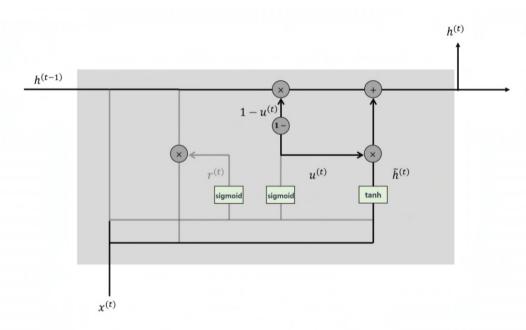
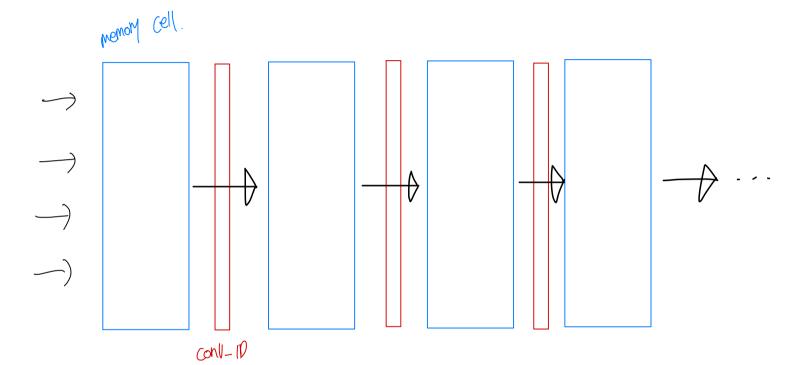
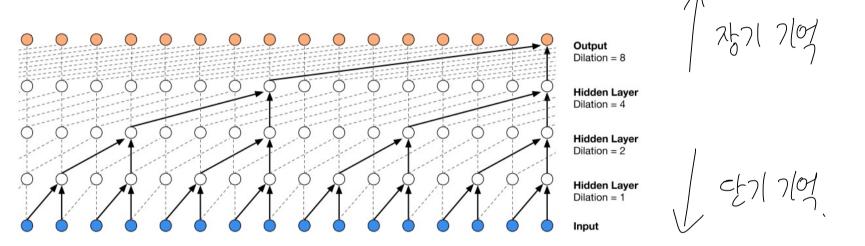


Figure 5: GRU, hidden layer

Wave Net CNN+RNN.

How







결치.

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