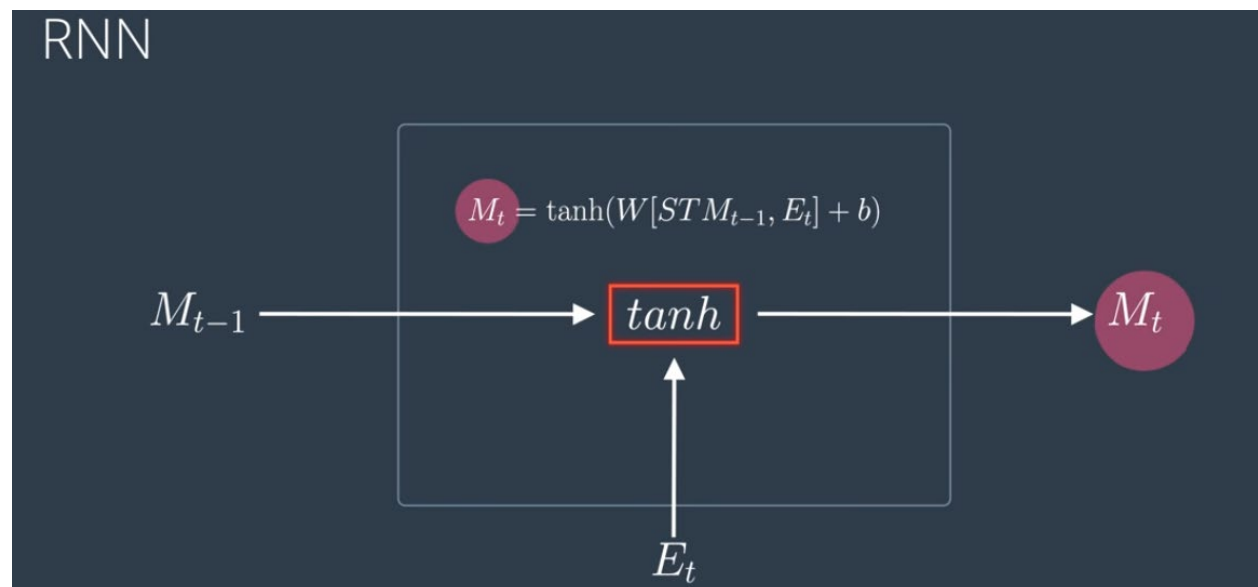
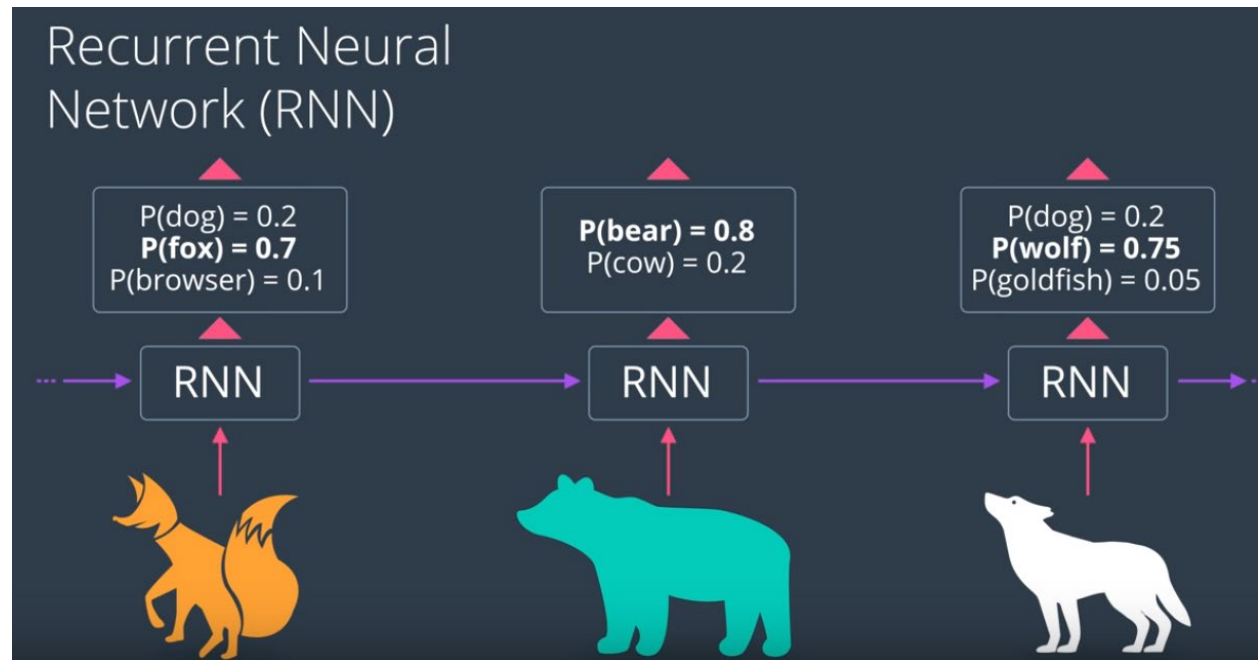
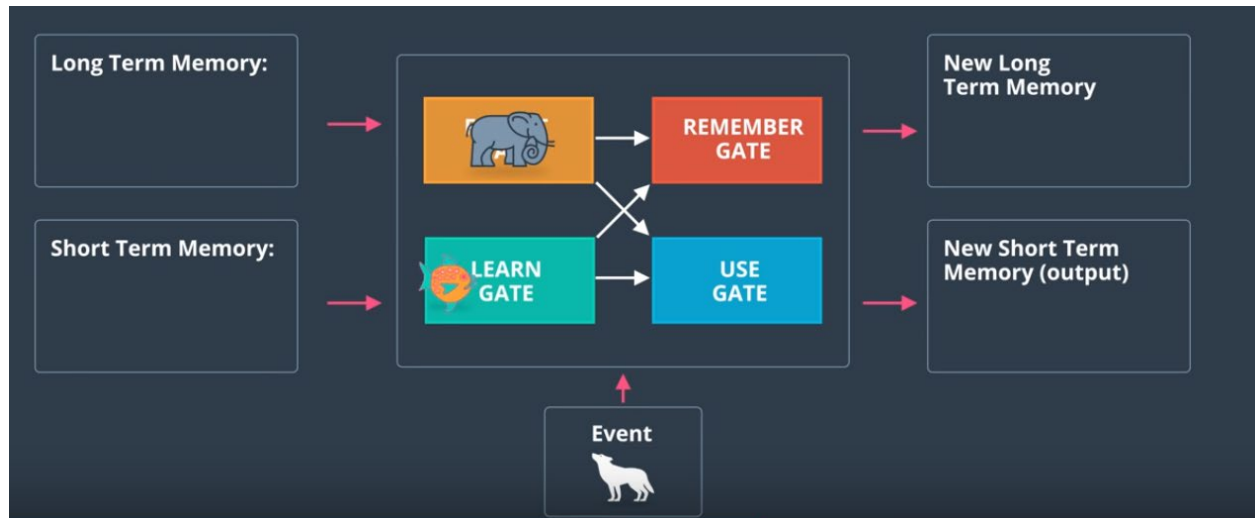


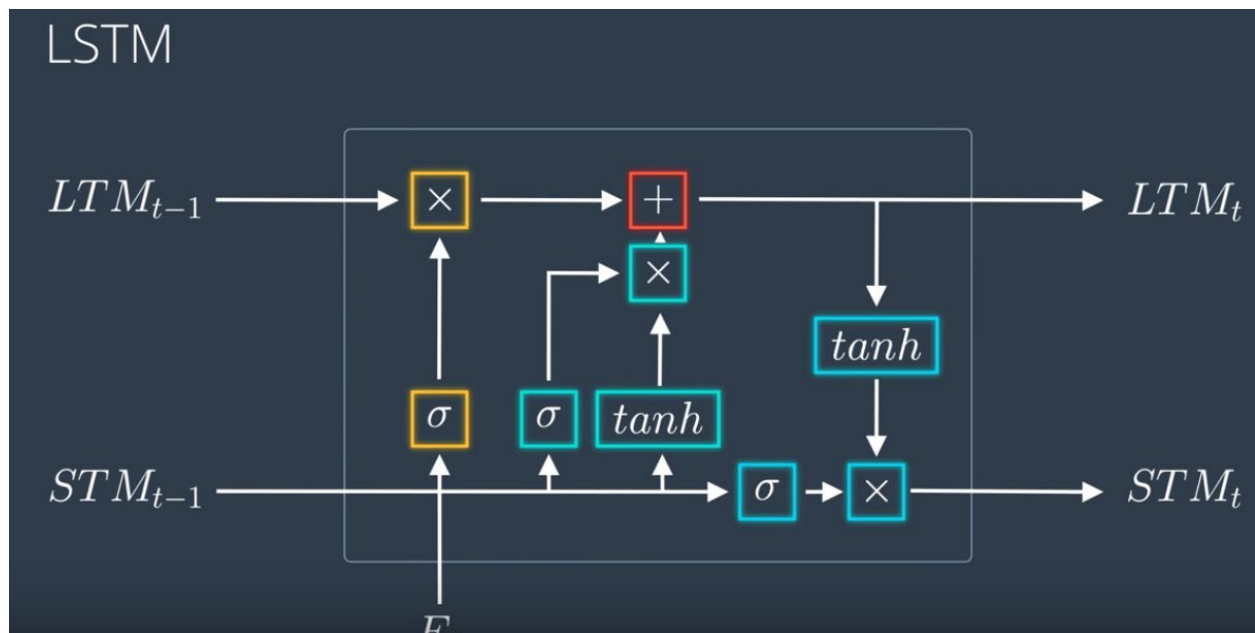
## RNN Architecture



## LSTM Architecture



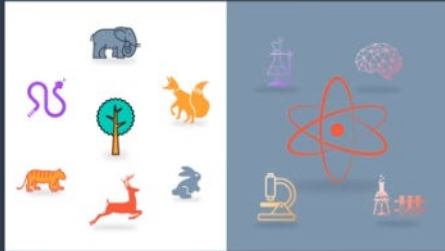
## LSTM Architecture



## Learn Gate

# Long Short Term Memory (LSTM)

Long Term Memory



Short Term Memory



Event



## Learn Gate

Short Term Memory

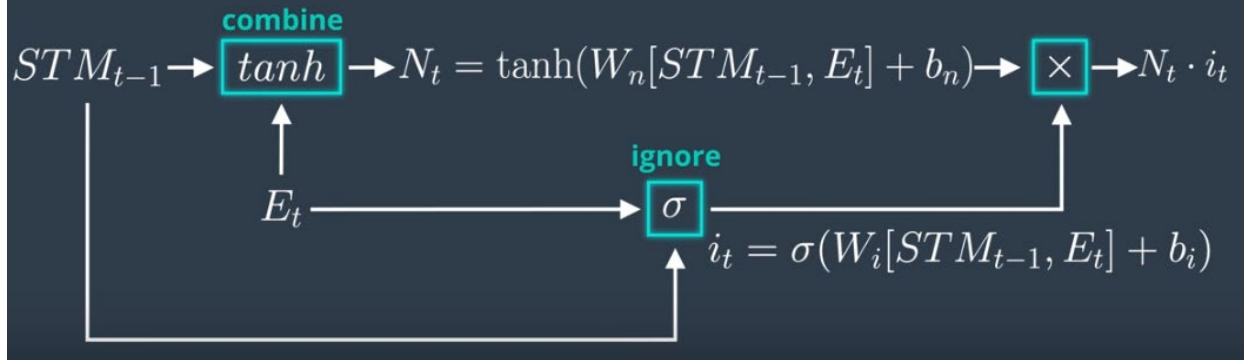
Event

COMBINE

IGNORE

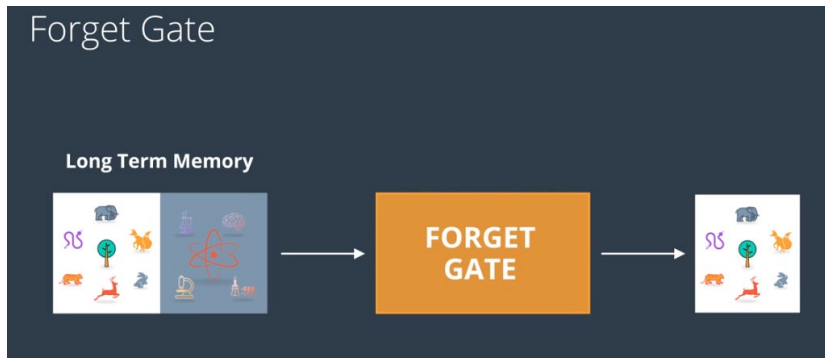


## Learn Gate

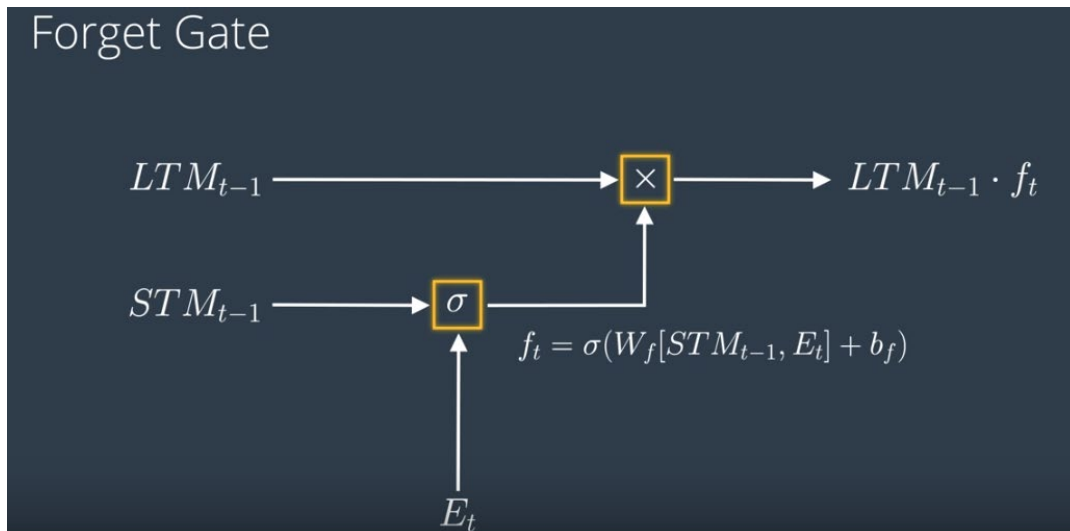


## Forget Gate

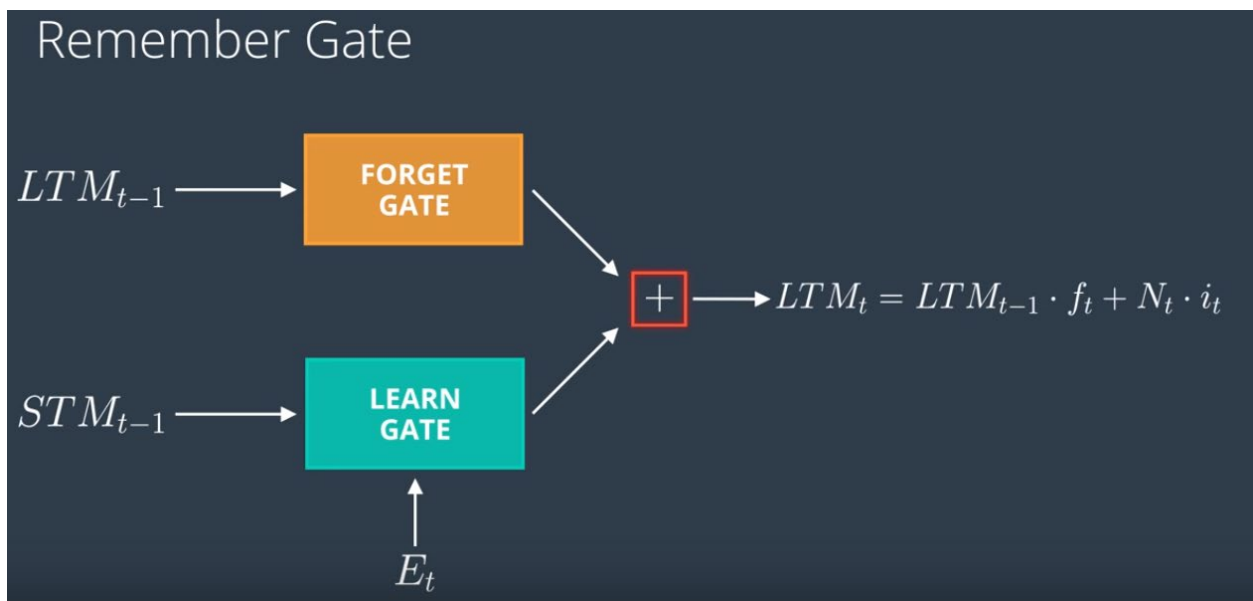
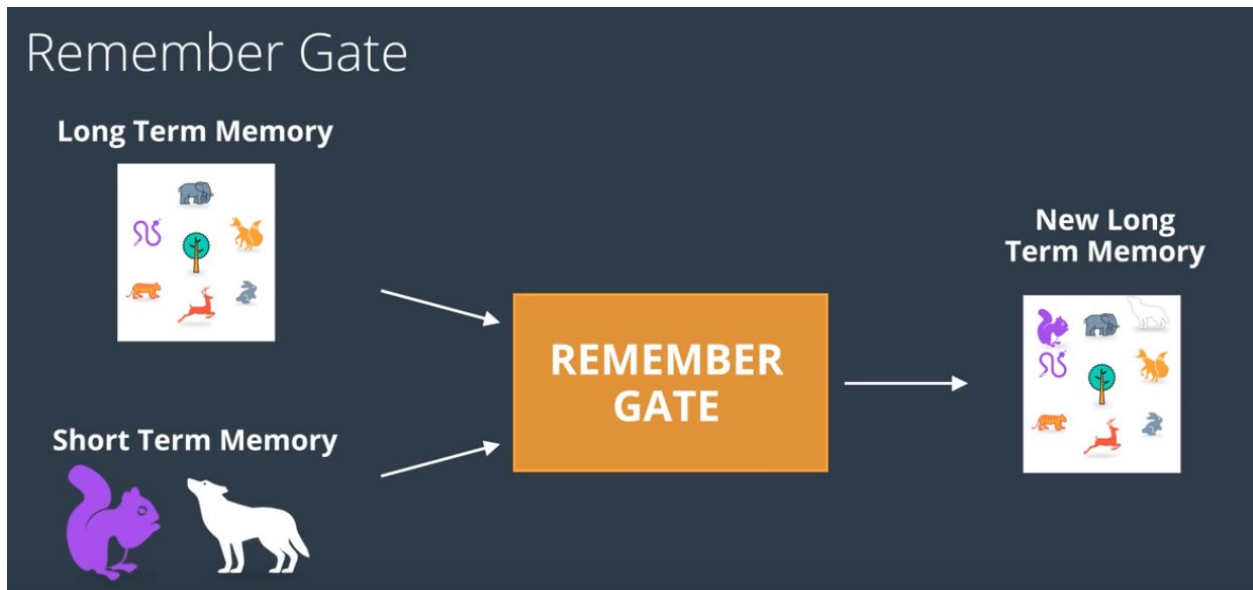
### Forget Gate



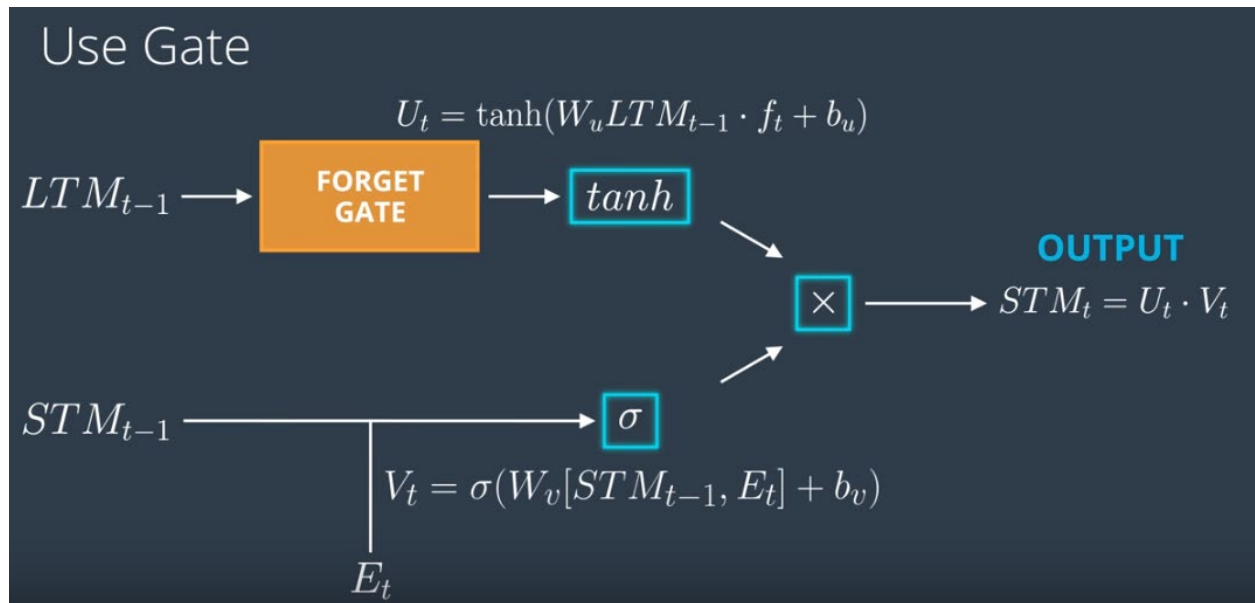
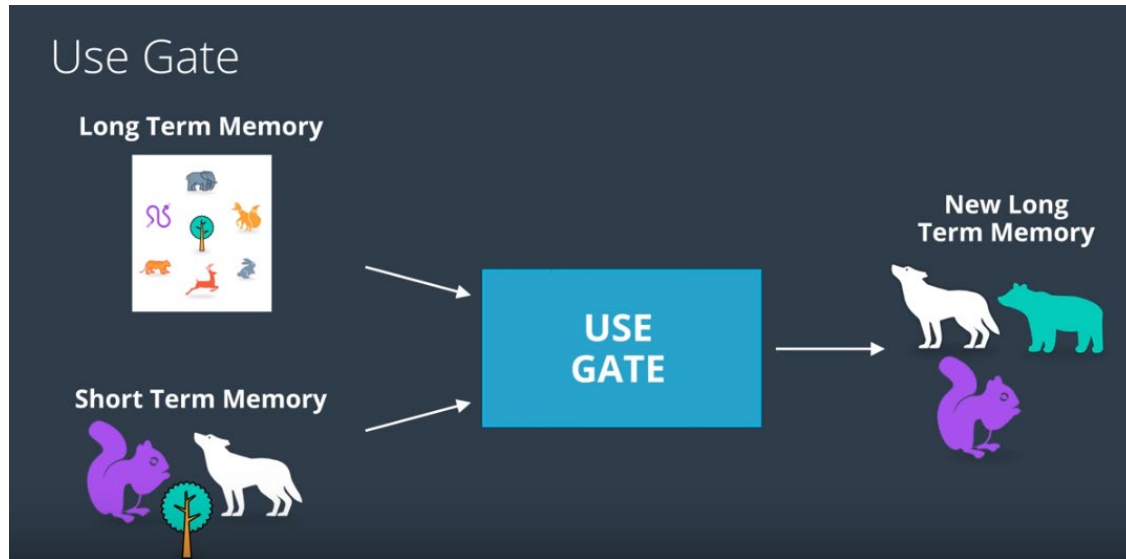
### Forget Gate



## Remember Gate

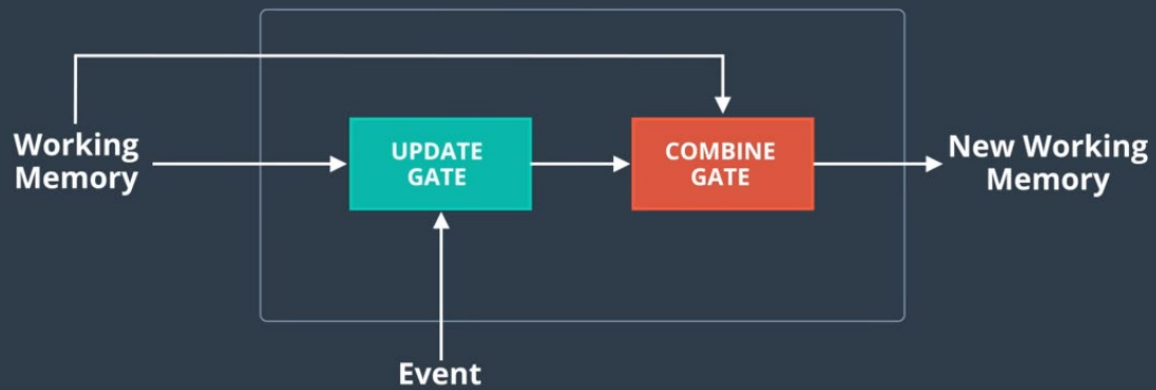


## Use Gate



Gated Recurrent Network

## Gated Recurrent Unit (GRU)



## Peephole Connections

