

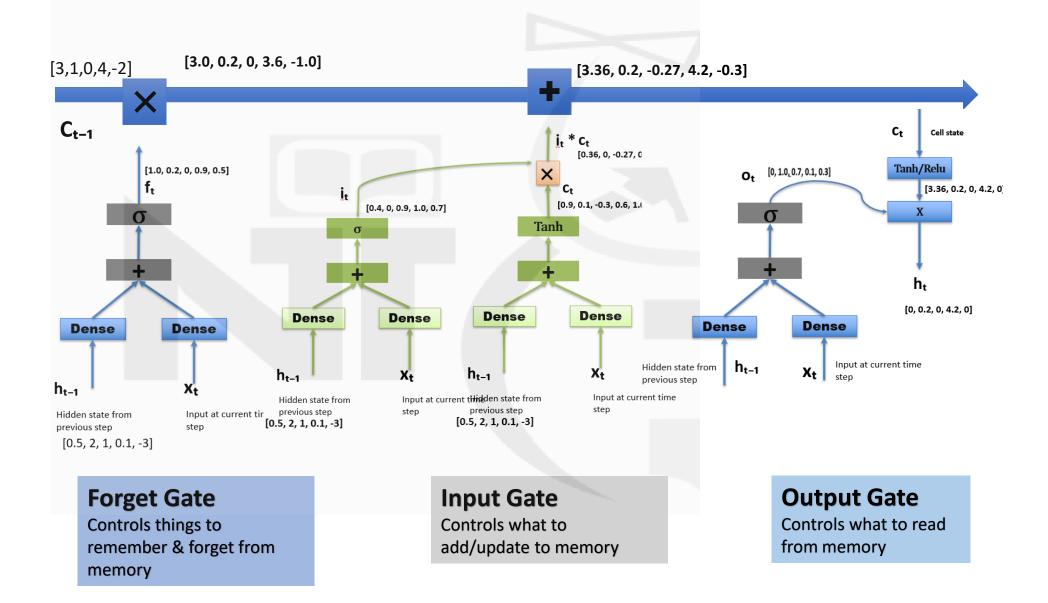
GRU as a simplified alternative that:

 Retains the benefits of LSTM (handling vanishing gradients, learning dependencies),

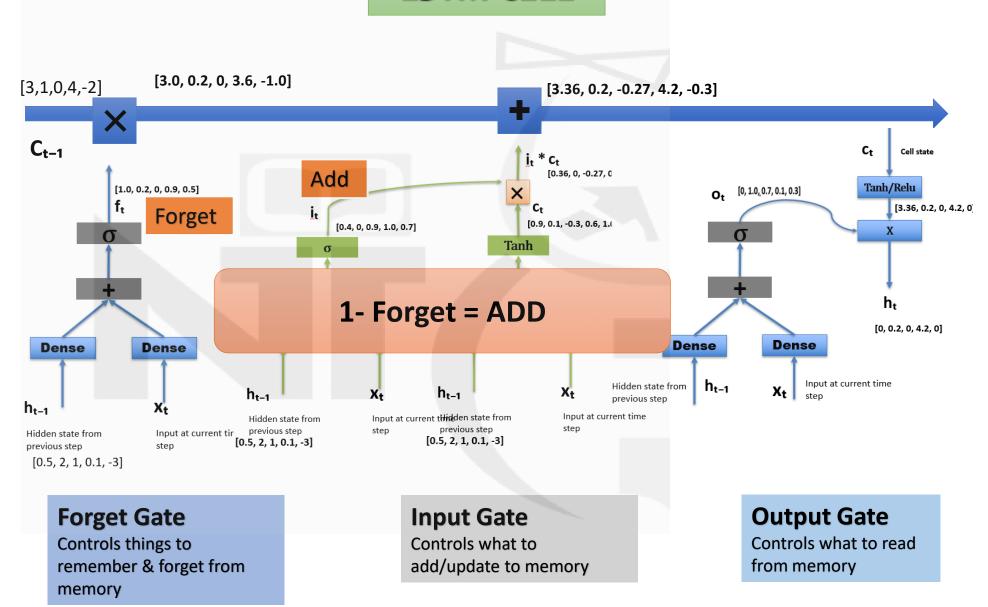
Has fewer gates and fewer parameters,

• Is faster to train and easier to implement.

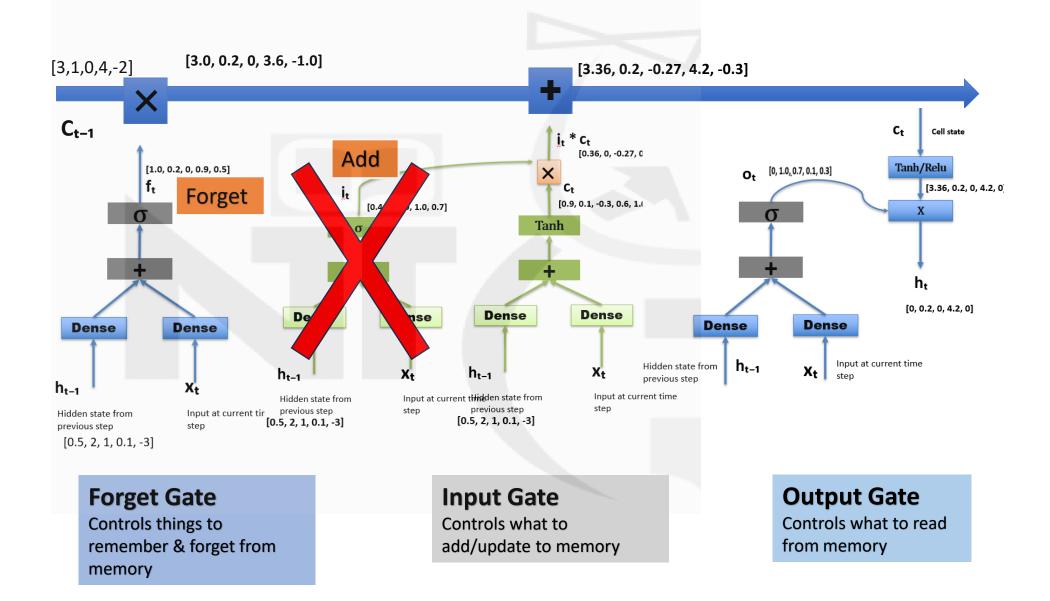
LSTM CELL



LSTM CELL



LSTM CELL

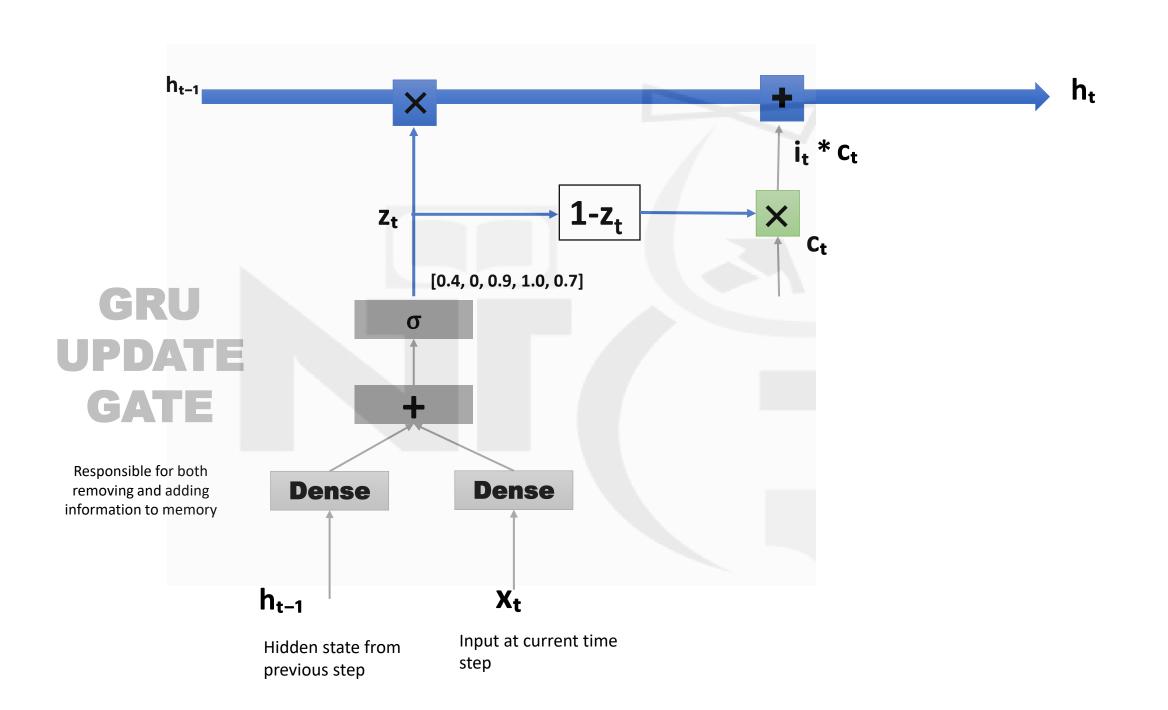


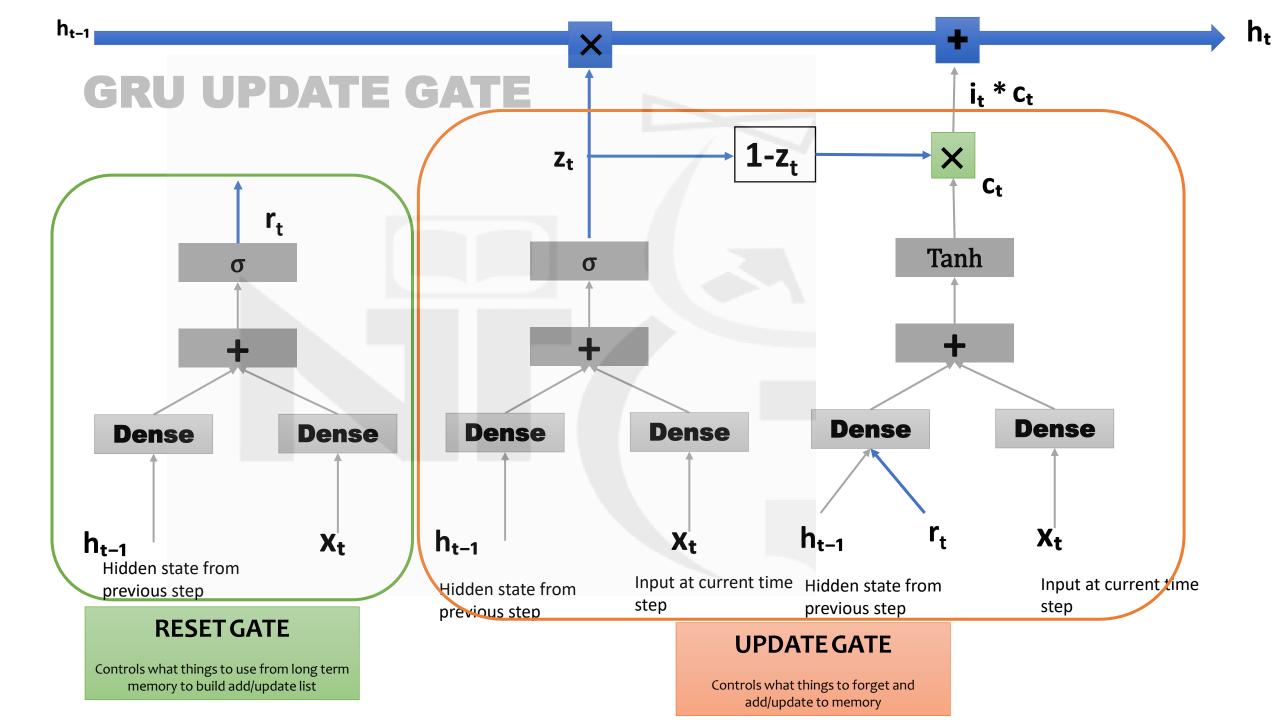
GRU VS LSTM

• GRU only has one memory h_t

• GRU doesn't have a add gate, it uses 1-forget for add

• This reduces 2 dense layers making is lighter than LSTM, needs less computational power





Using GRU in Keras

model.add(tf.keras.layers.GRU(256))