The care difference of RNN, Peephale-LSTM and ORU:

RNN are designed to work with sequential docta. RNN uses the previous information in the requence to produce the current output. In RNN weights and bias for all the nodes in the layer are same. The workflow of GRU is some as RNN but the difference is in the operations inside the GRU unit. By the there are two wint. gaters 1) Resot gater 2) update gate. Fach gates was it's own weights and biases. For all modes in one adiration function. Organisation function. Organisation pretty, much similar to arus But there are liffre - cer they are intended to solve the vanishing problem gradient problem.

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LSTM has 4 govers 1) Reset gate 1) update gate 3) Forget gate 4) output gate . It mas two activation function.

The Barric difference of LSTM forgete gate and GRU's reset gate:

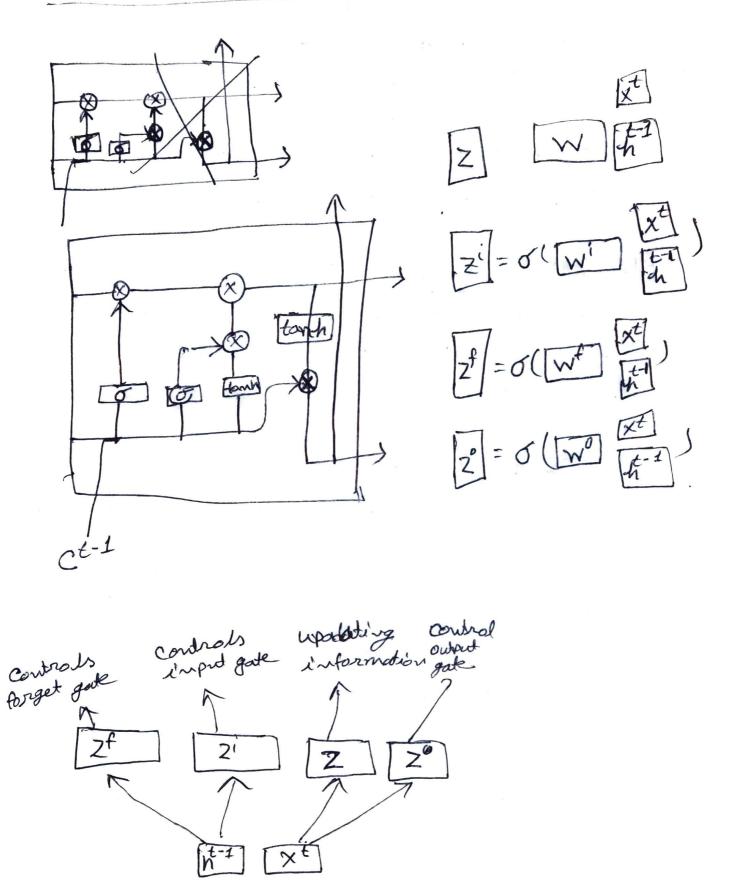
GRU Reset gate; The reset gates is used to decide whether the previous cell state is important or not. Sometimes the reset gate is not used in simple CRII.

LSTM Forget gate: St controls what is kept is forgotten from previous cell state. On laymen terms it will decide how much information from the previous state should be kept and forget forget remaining.

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Matrix workflow of the LSTM:



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