**LSTM**

[How to understand LSTM by RNN](https://blog.csdn.net/v_JULY_v/article/details/89894058)

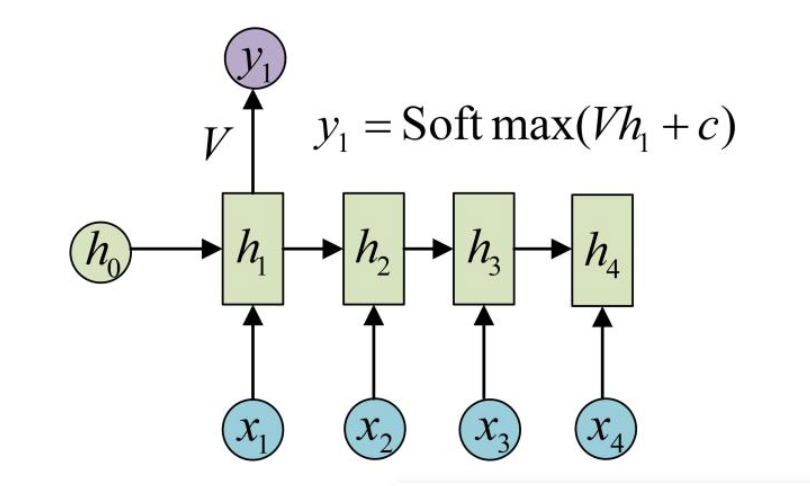
**RNN**

In RNN share W, but not sharing in LSTM.

RNN graph shown below:

绿色的钟表

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绿色的钟表

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New weights = Old weights – learning rate \* gradient, when gradient becomes extremely small, then stop learning.

**LSTM**

Simplest structure means only tanh model, Tanh is to limit the activation values between -1 to 1.

图示

描述已自动生成

More complex model, 3 sigmoid activation function+1 tanh activation function

图示

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Forget gate:

卡通人物

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