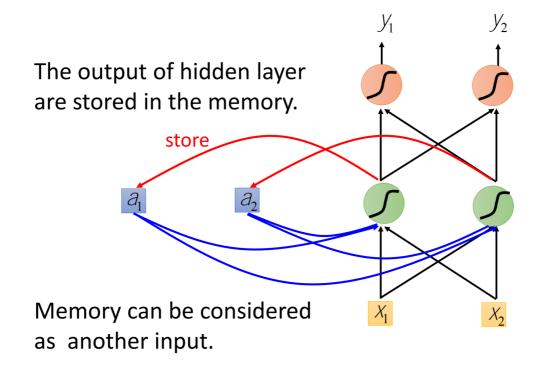
RNN循环神经网络



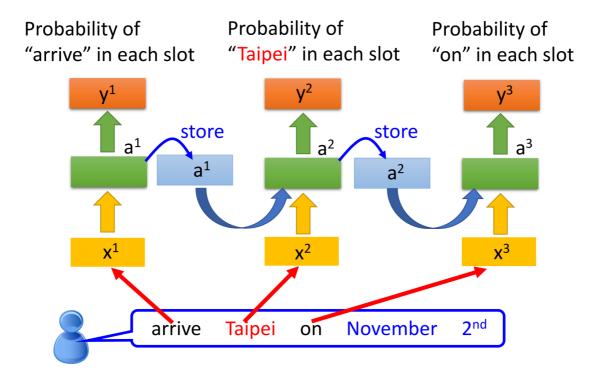
Input sequence:
$$\begin{bmatrix} 1 \\ 1 \end{bmatrix} \begin{bmatrix} 1 \\ 1 \end{bmatrix} \begin{bmatrix} 2 \\ 2 \end{bmatrix} \dots \dots$$

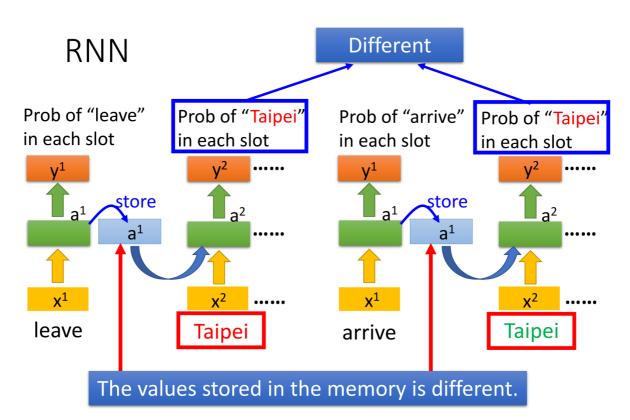
output sequence: $\begin{bmatrix} 4 \\ 4 \end{bmatrix} \begin{bmatrix} 12 \\ 12 \end{bmatrix} \begin{bmatrix} 32 \\ 32 \end{bmatrix}$

 $p.s. X_1, X_2$ 为同一个样本的不同特征

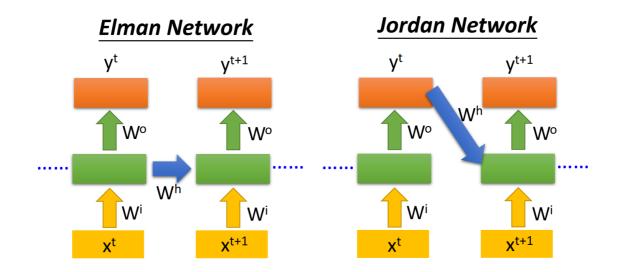
RNN

The same network is used again and again.





Elman Network & Jordan Network



Bidirectional RNN

