

RNN Hidden State Flow: Step-by-Step Memory Updates

Processing: "The cat sat on mat"

Input:

The

cat

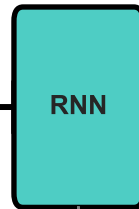
sat

on

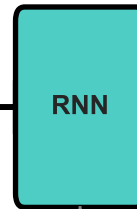
mat



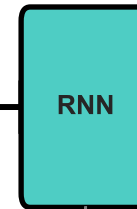
h_1



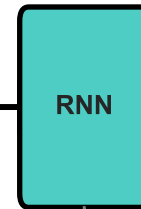
h_2



h_3



h_4



Hidden state
accumulates
information

Hidden:

$h_0 = [0, 0, 0]$

RNN

RNN

RNN

RNN

RNN

y_1

y_2

y_3

y_4

y_5

Output: