

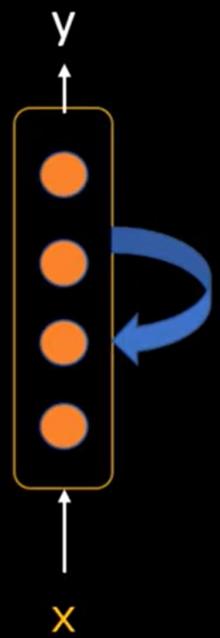
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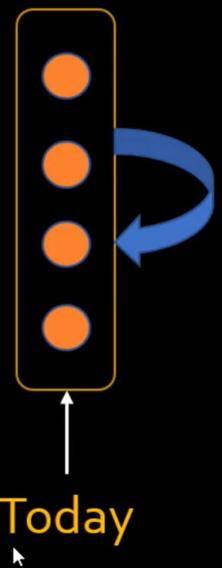
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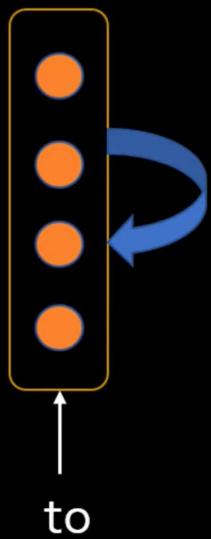
# Generic Representation of RNN



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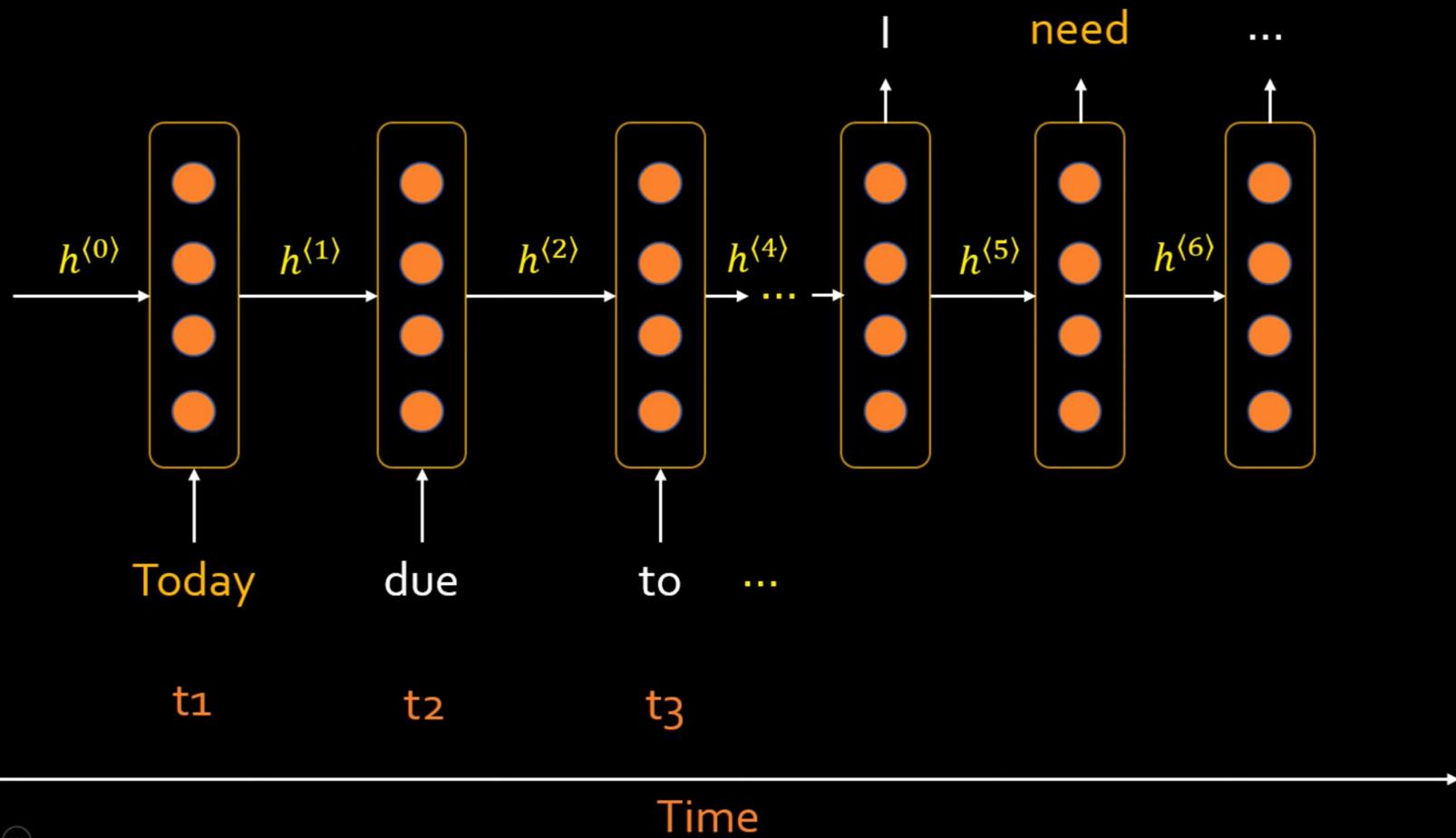
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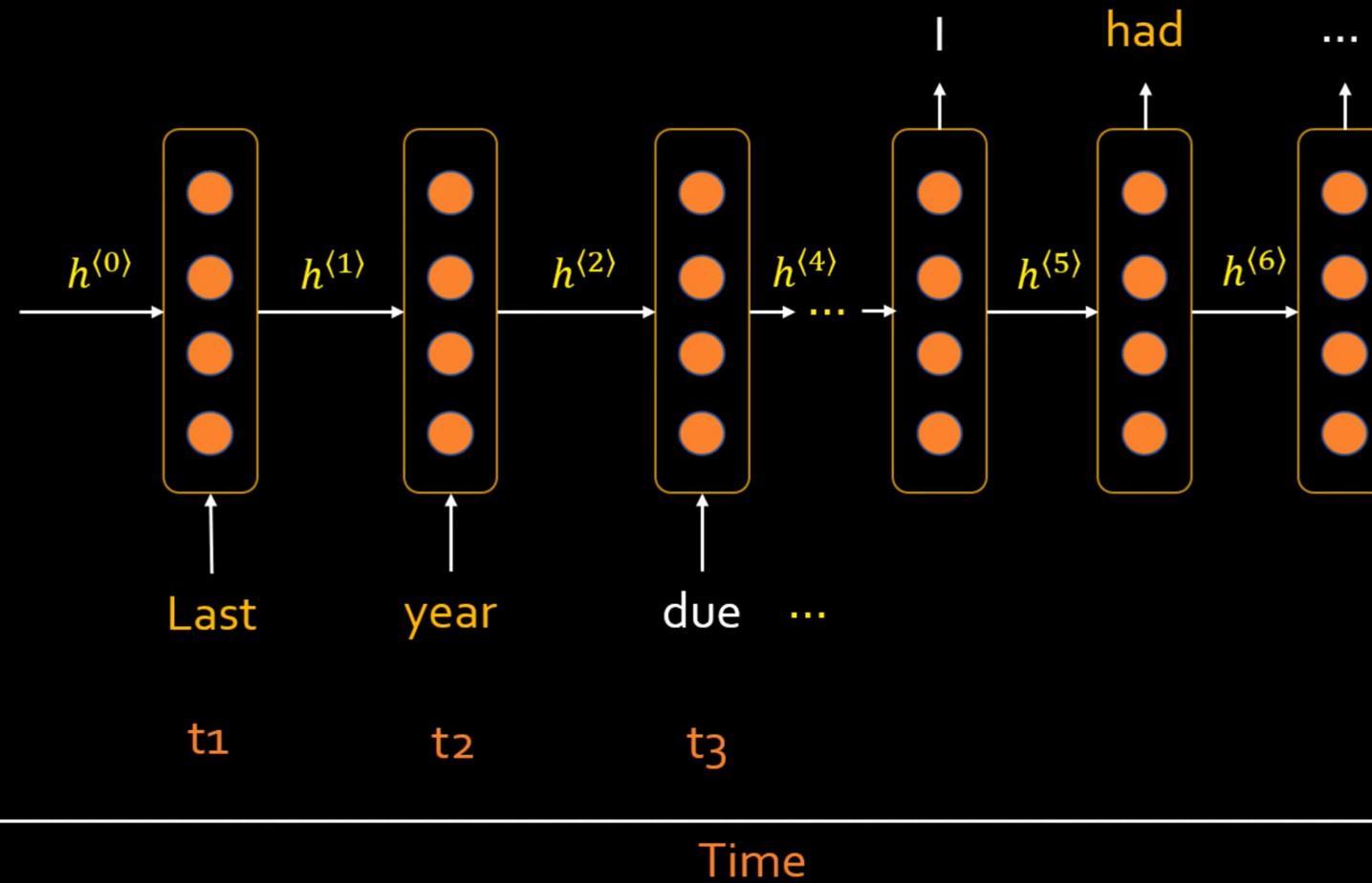
# Unroll in time



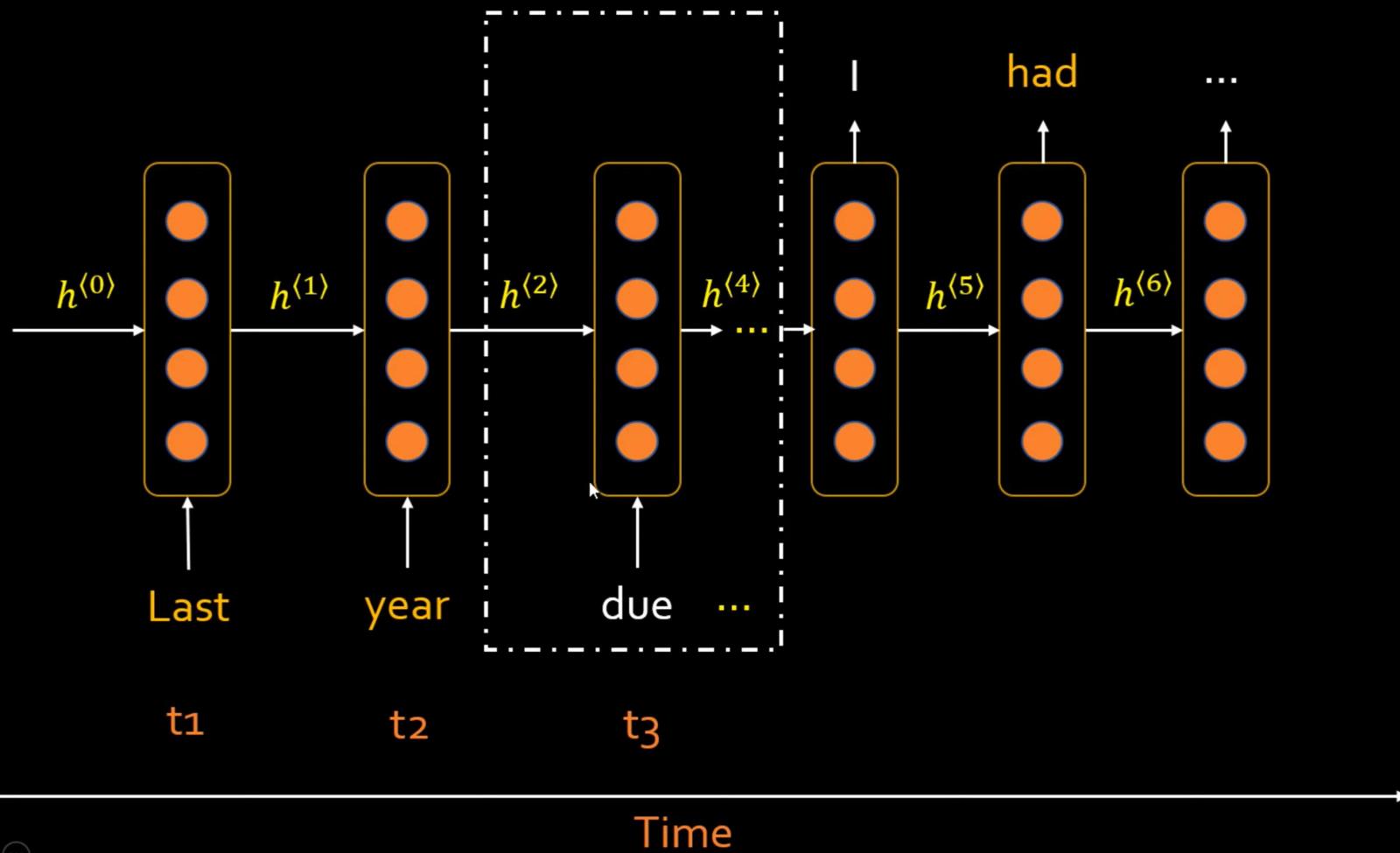
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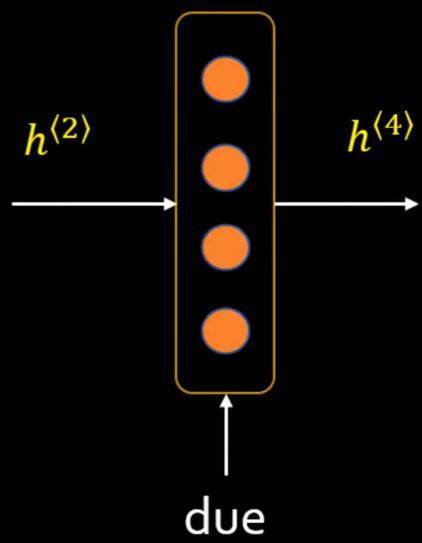


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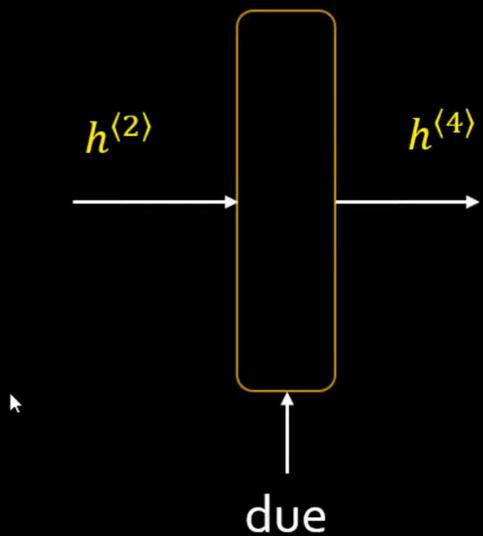


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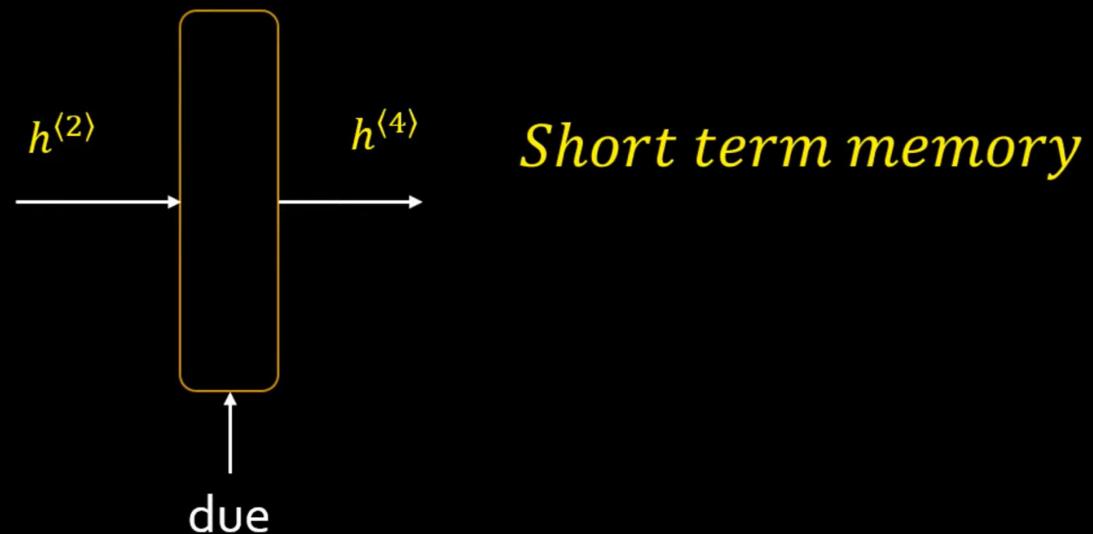




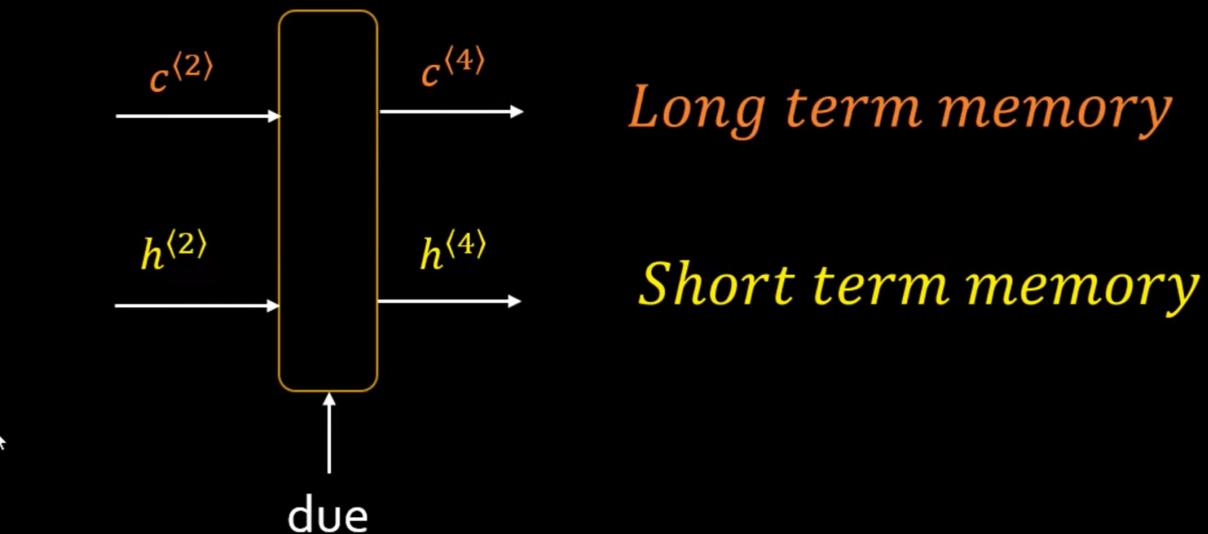
## Memory cell



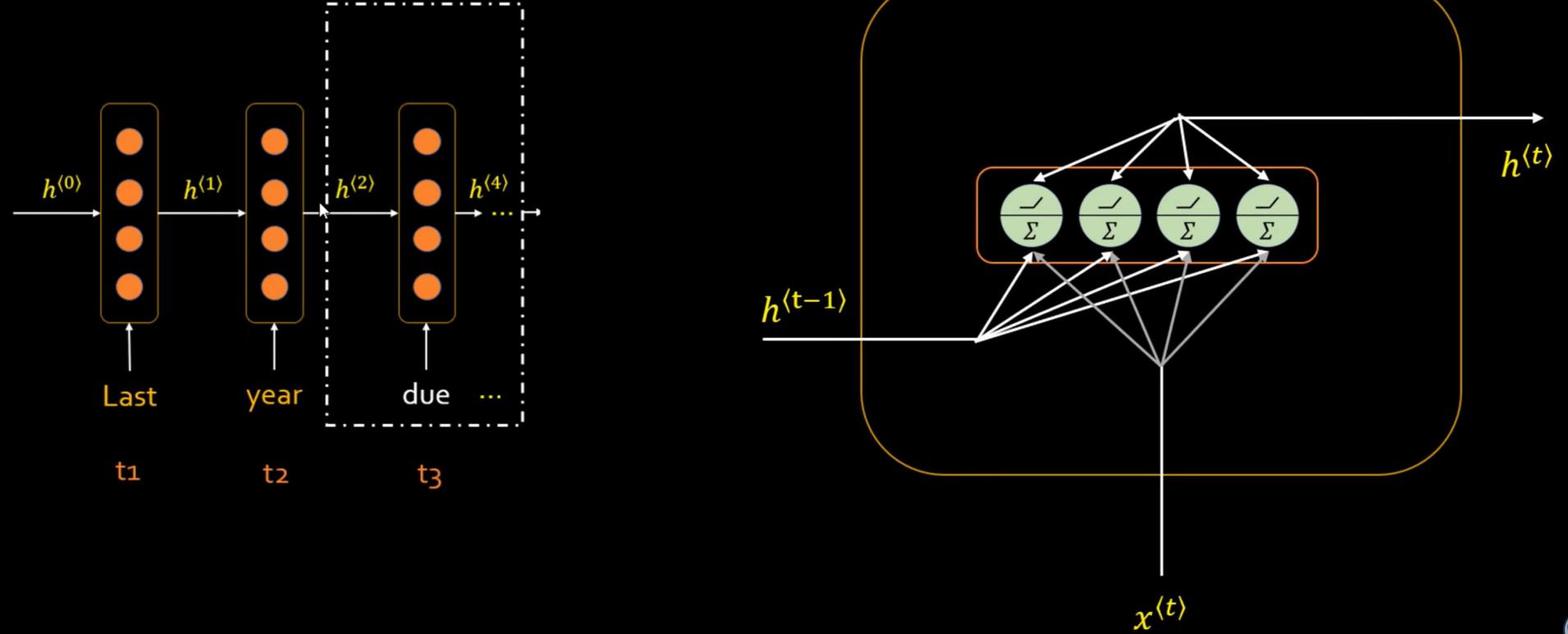
## Memory cell



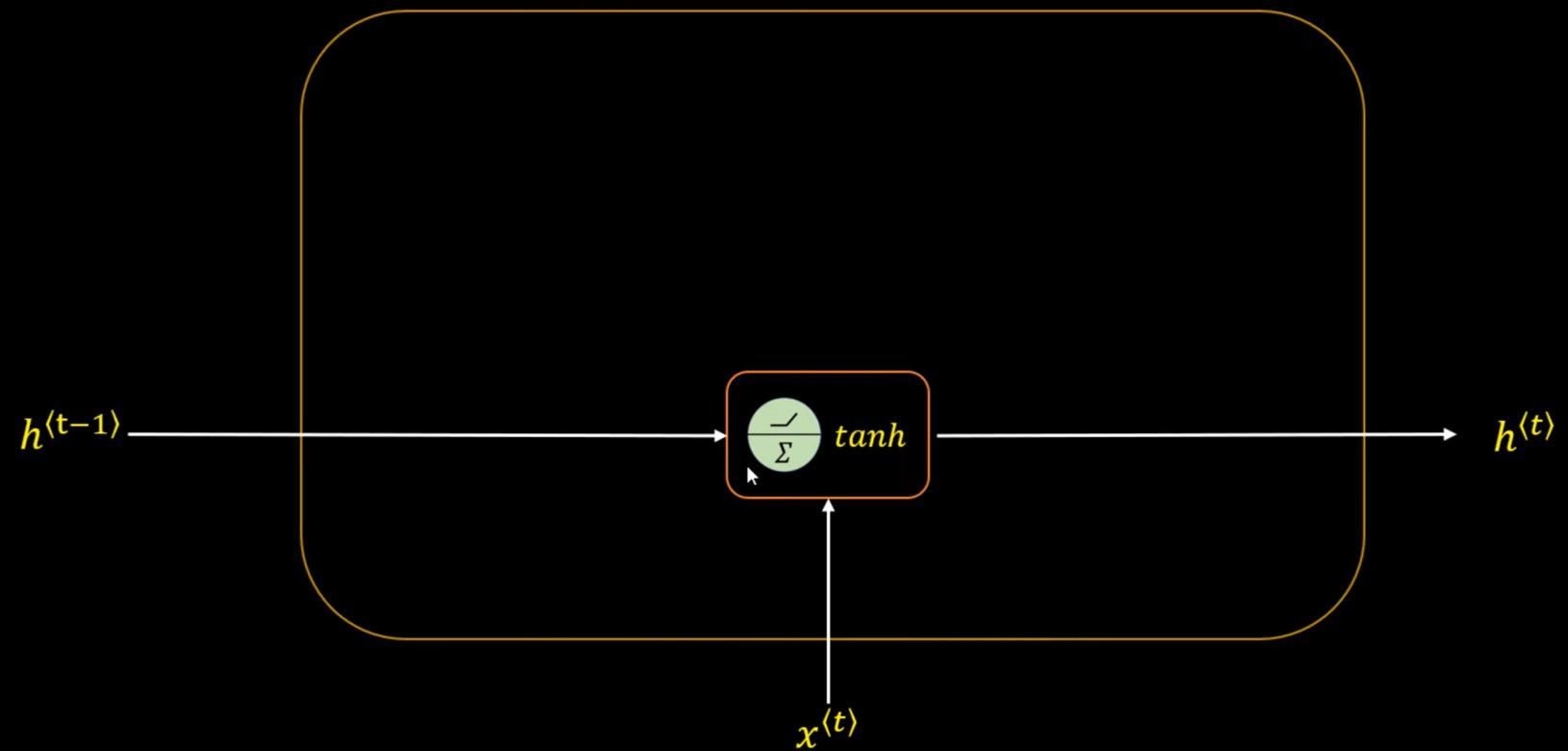
## Memory cell



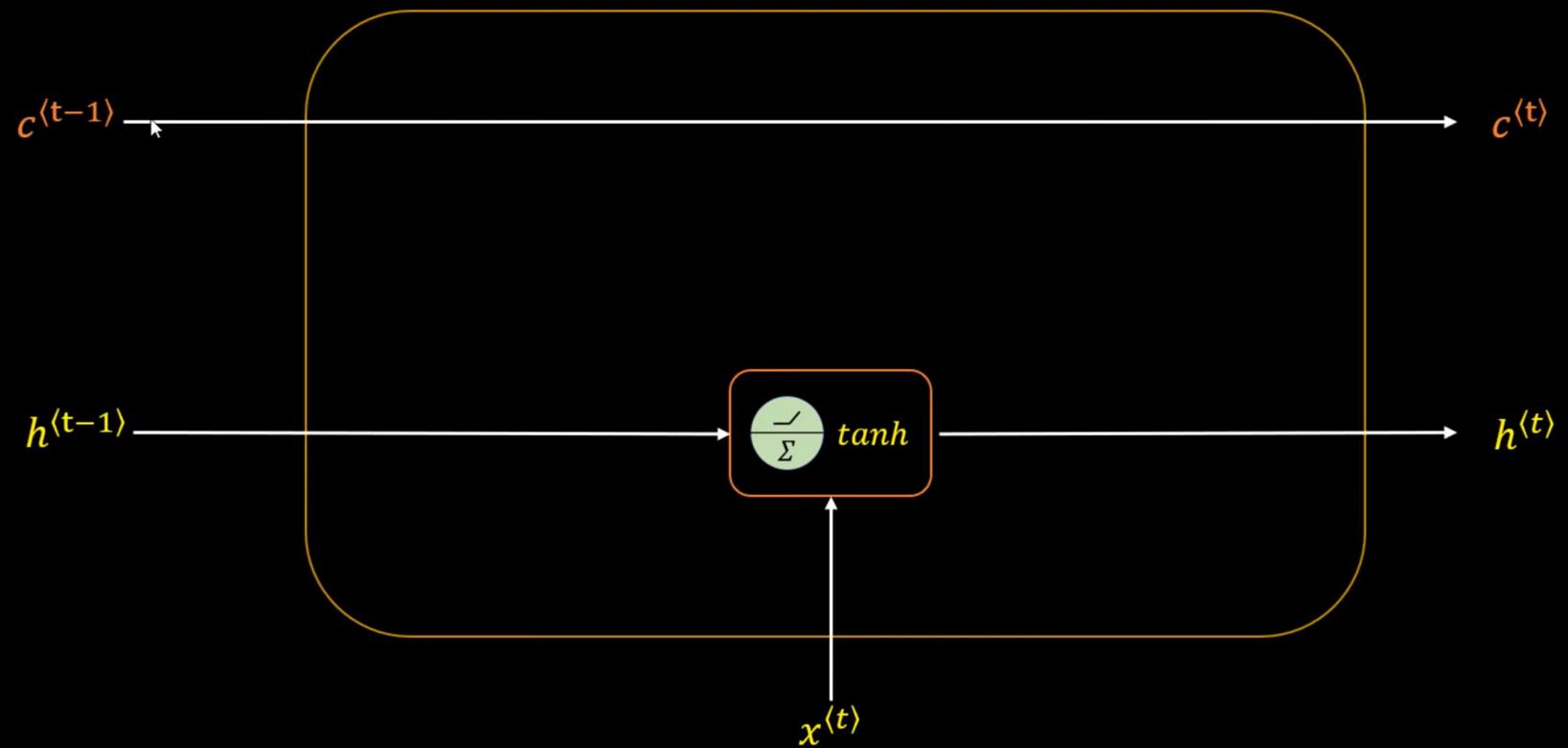
## *Short term memory cell in traditional RNN*



## *Short term memory cell in traditional RNN*



## *Short term memory and long term memory*



Dhaval eats samosa almost everyday, it shouldn't be hard to guess  
that his favorite cuisine is ...

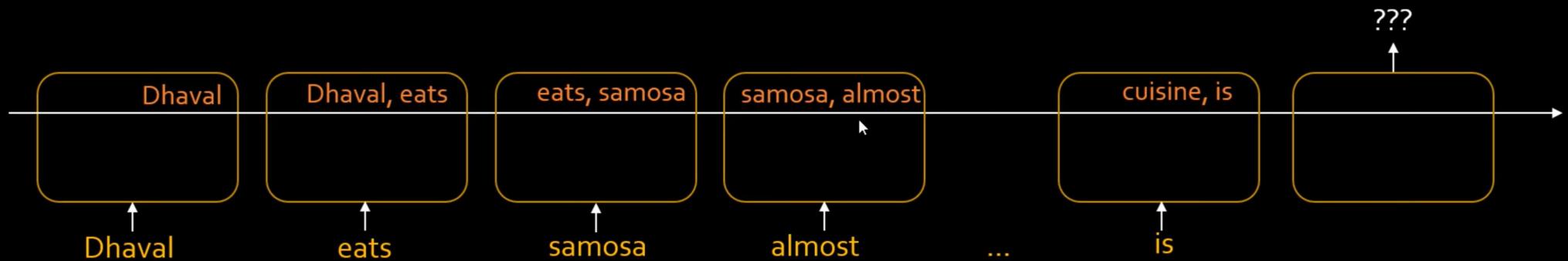


Dhaval eats samosa almost everyday, it shouldn't be hard to guess  
that his favorite cuisine is Indian

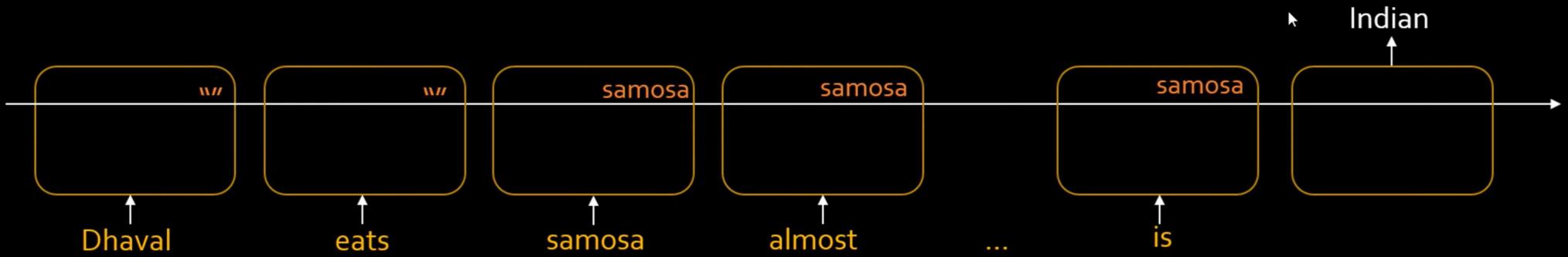
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Traditional RNN



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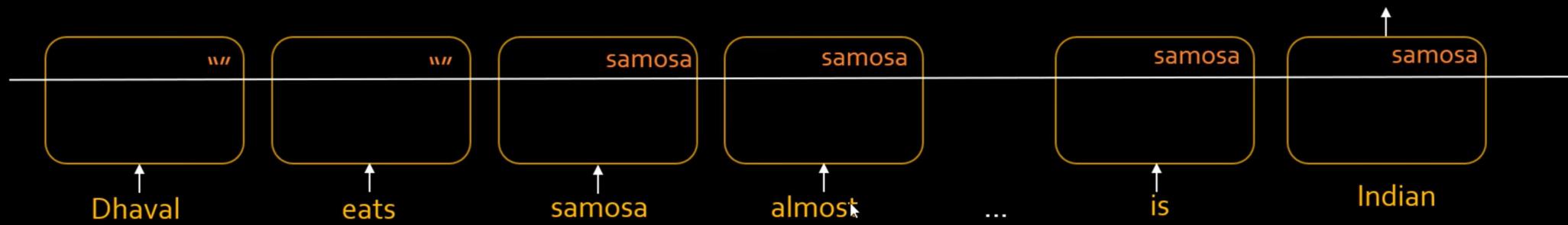
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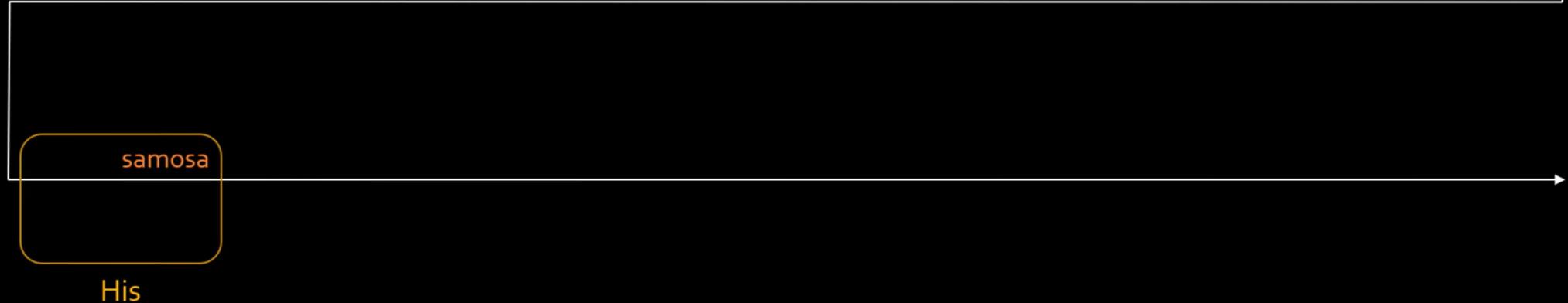
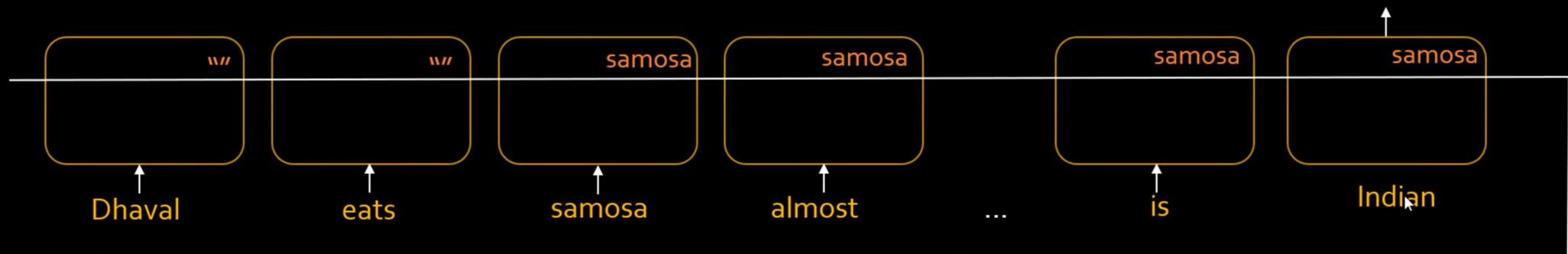
Italian

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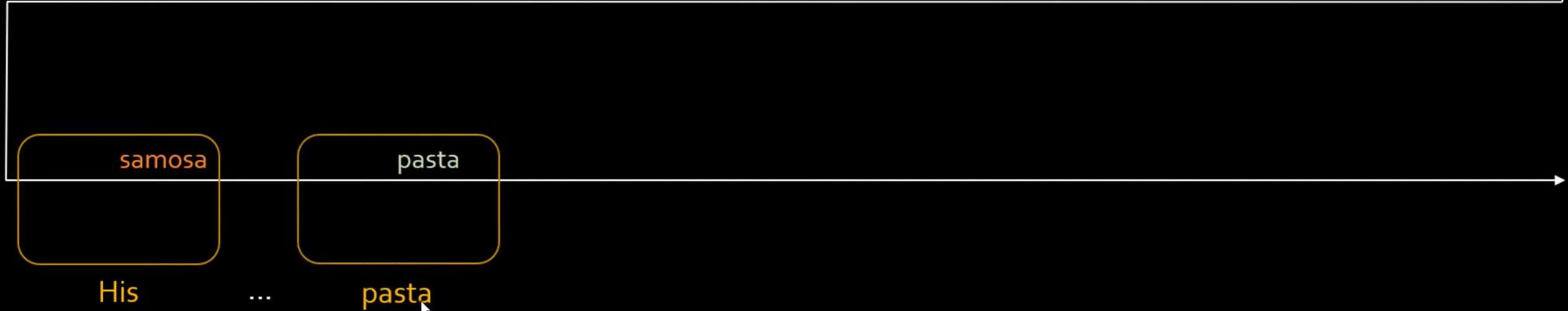
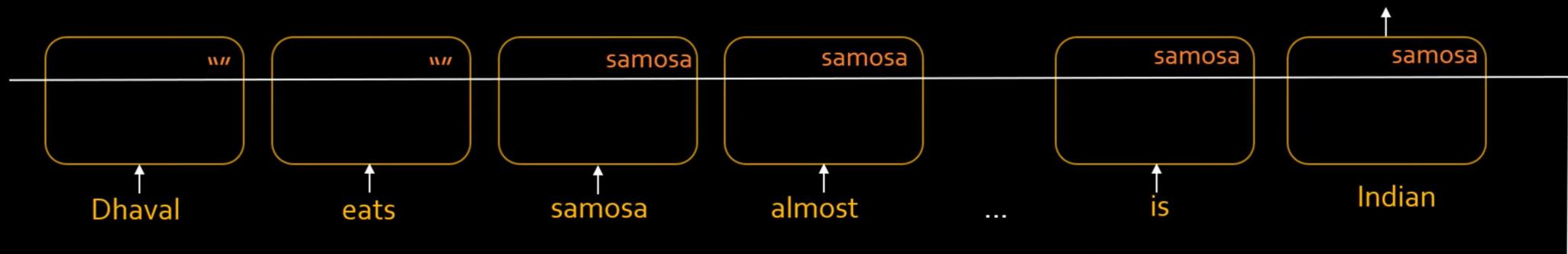
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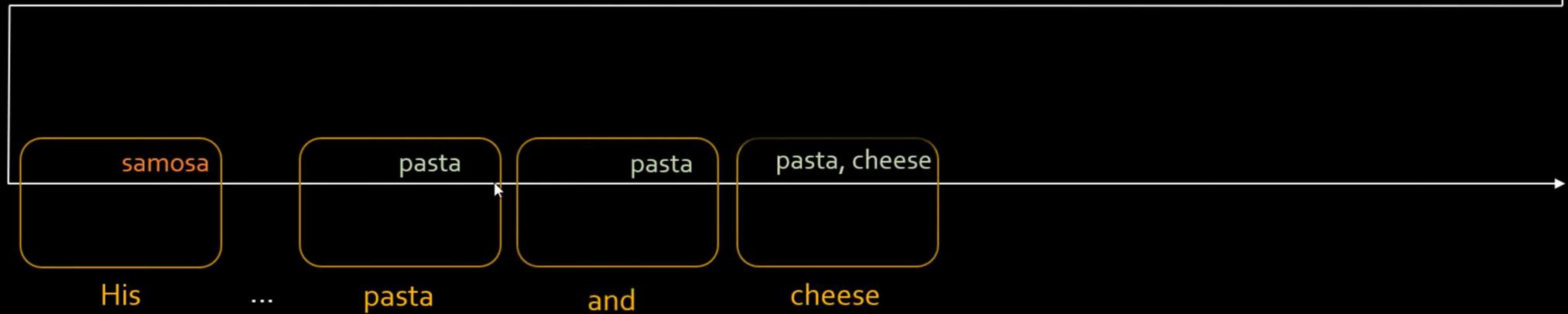
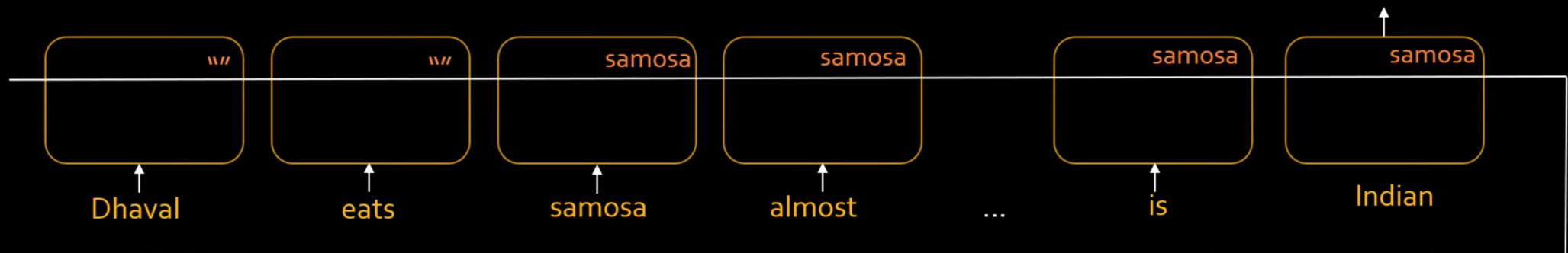
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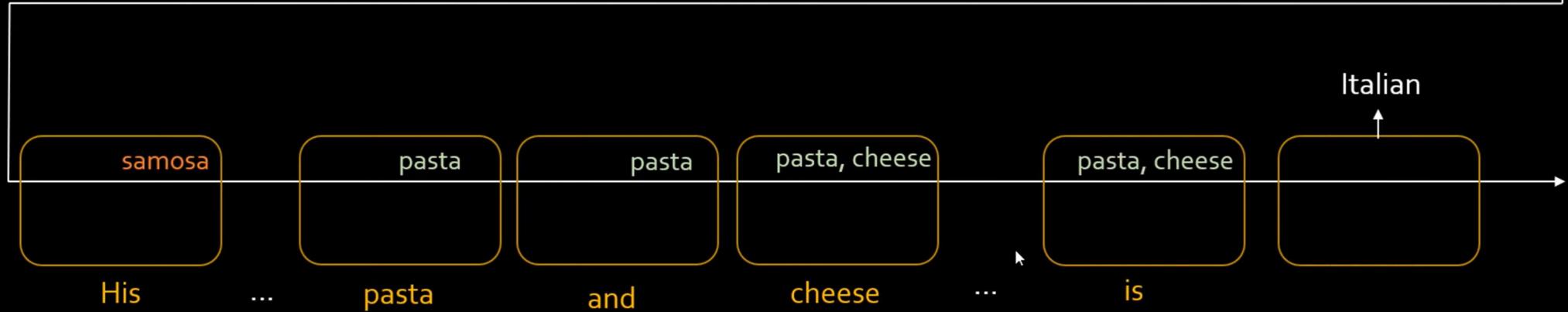
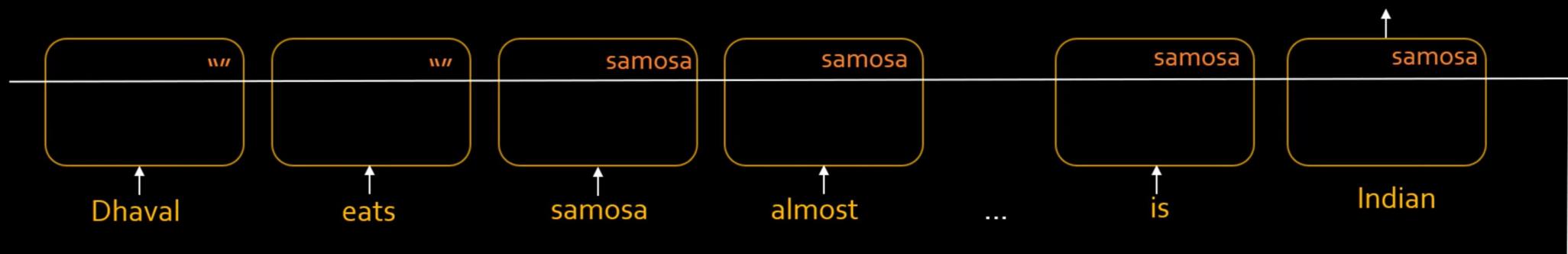
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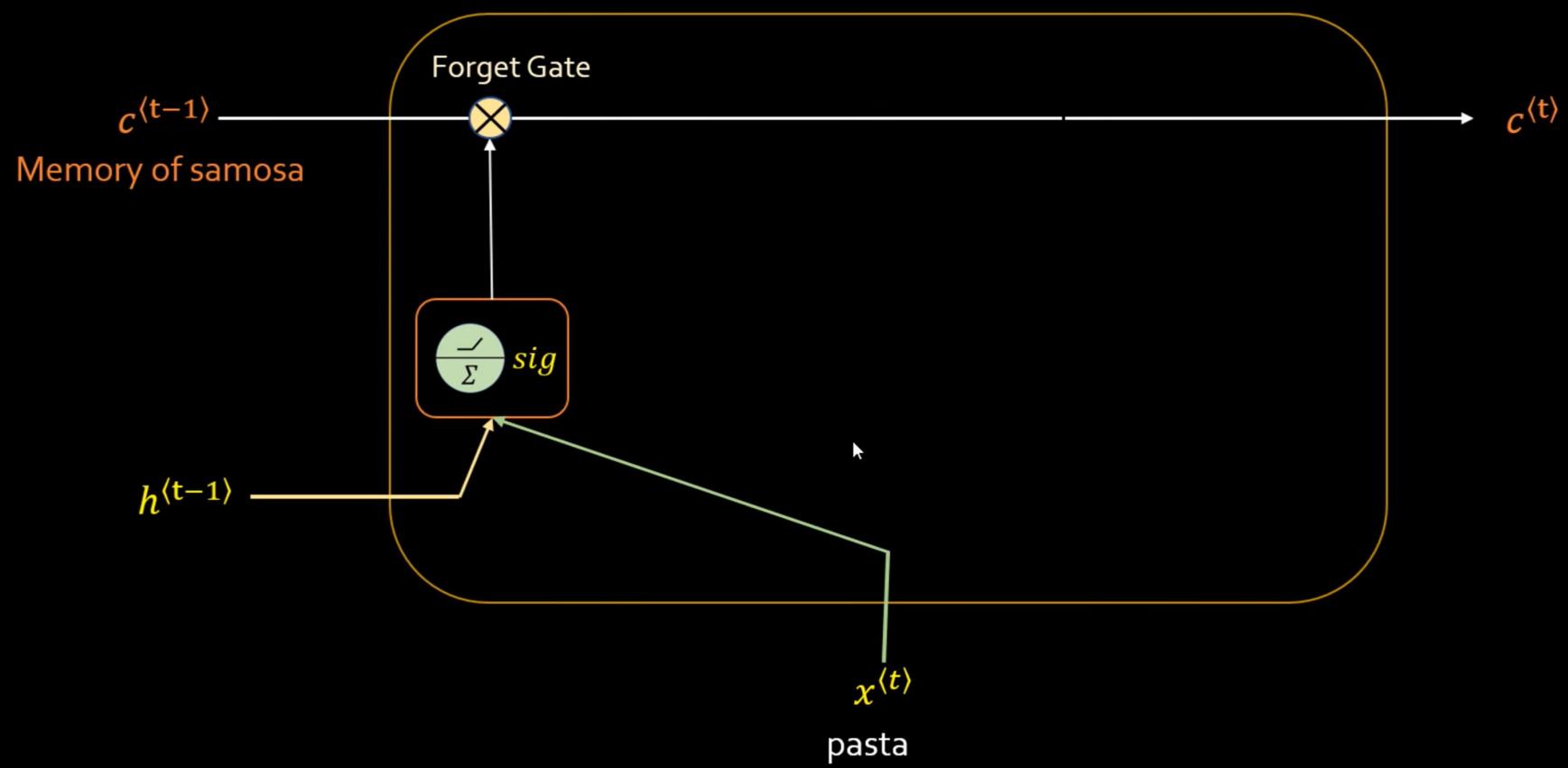


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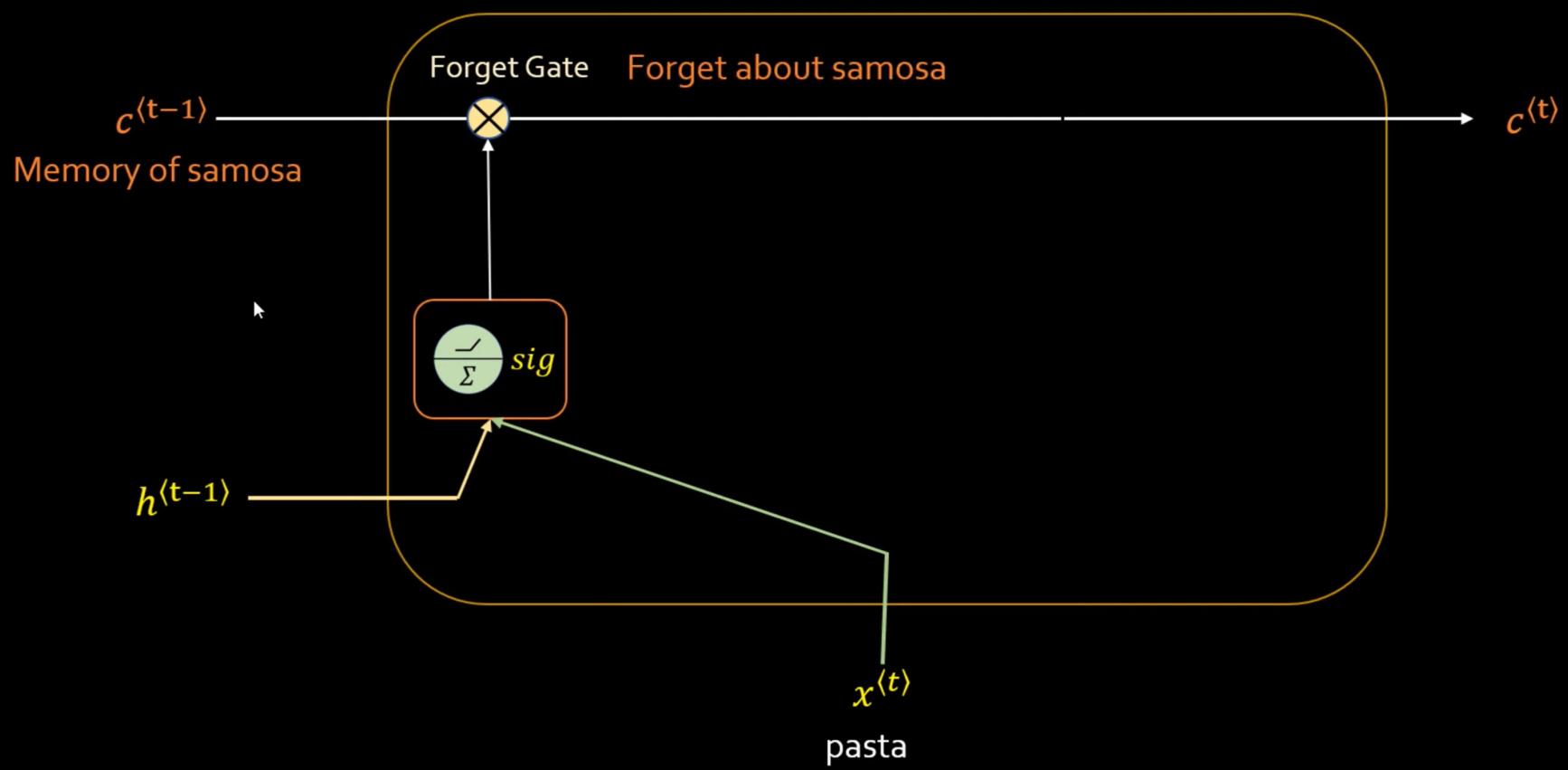


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$x^{(t)}$



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