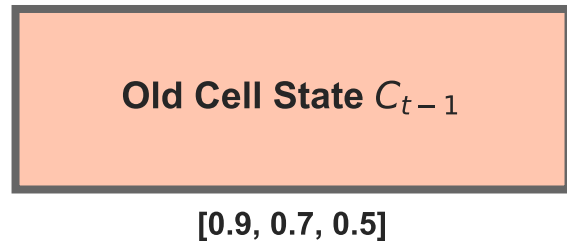
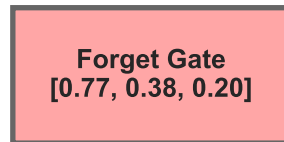


BEFORE



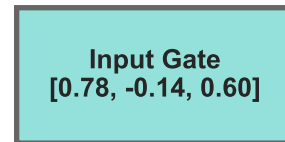
*Contains old memory
from previous words*

DURING UPDATE



Filter old

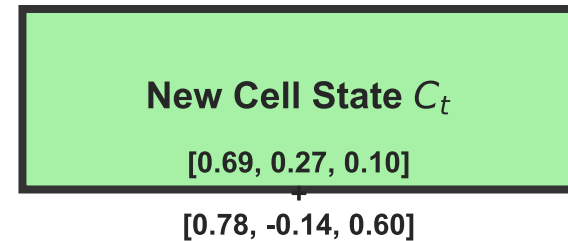
×
+



Add new

$$C_t = f_t \odot C_{t-1} + i_t \odot \tilde{C}_t$$

AFTER



[0.78, -0.14, 0.60]

=

[1.47, 0.13, 0.70]

*Updated memory
ready for next word*