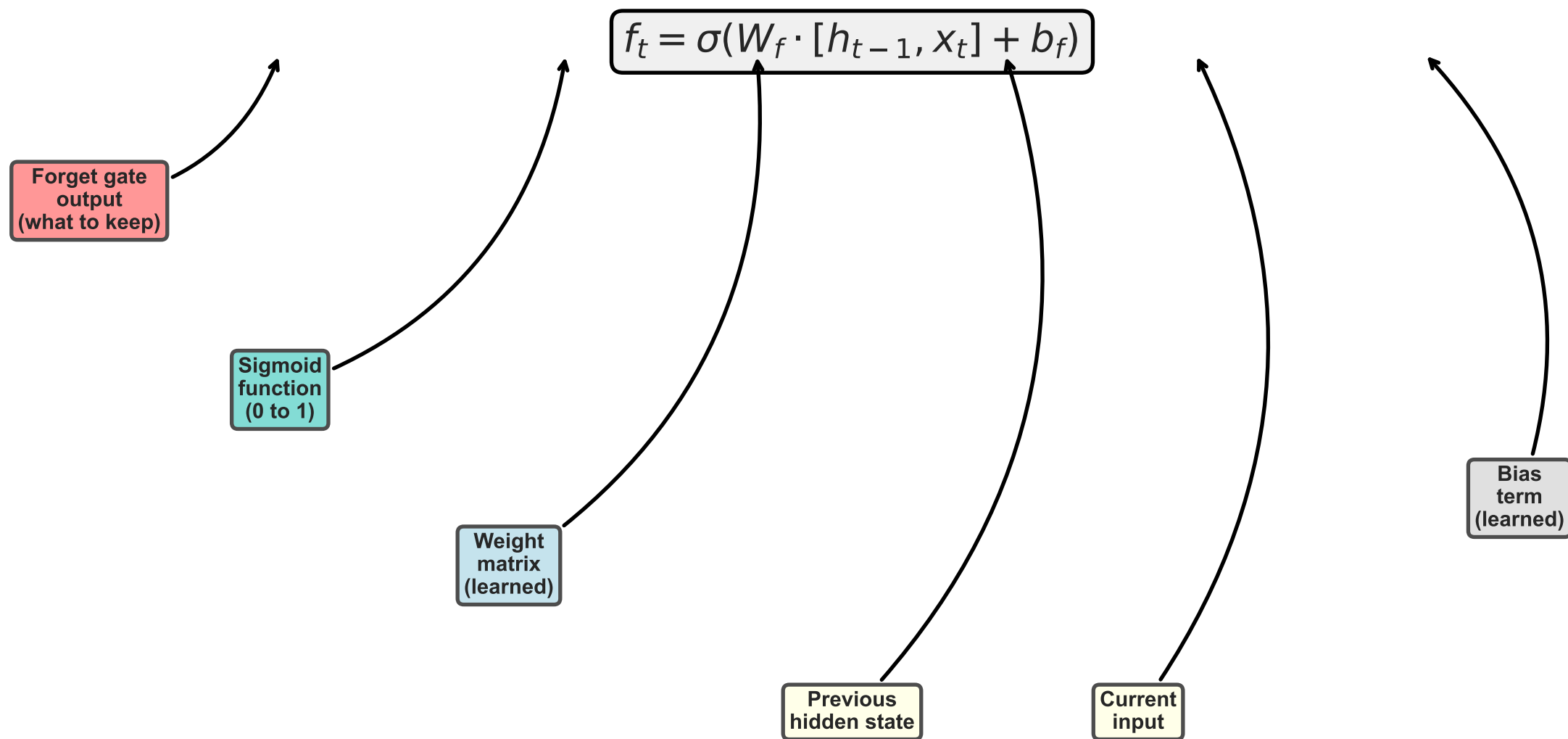


Equation Anatomy: Reading LSTM Formulas



Reading left to right:

1. Concatenate previous state and current input: $[h_{t-1}, x_t]$
2. Multiply by weight matrix: $W_f \cdot [h_{t-1}, x_t]$
3. Add bias: $+b_f$
4. Apply sigmoid: $\sigma(\dots) \rightarrow$ output between 0 and 1
5. Store result in forget gate: f_t