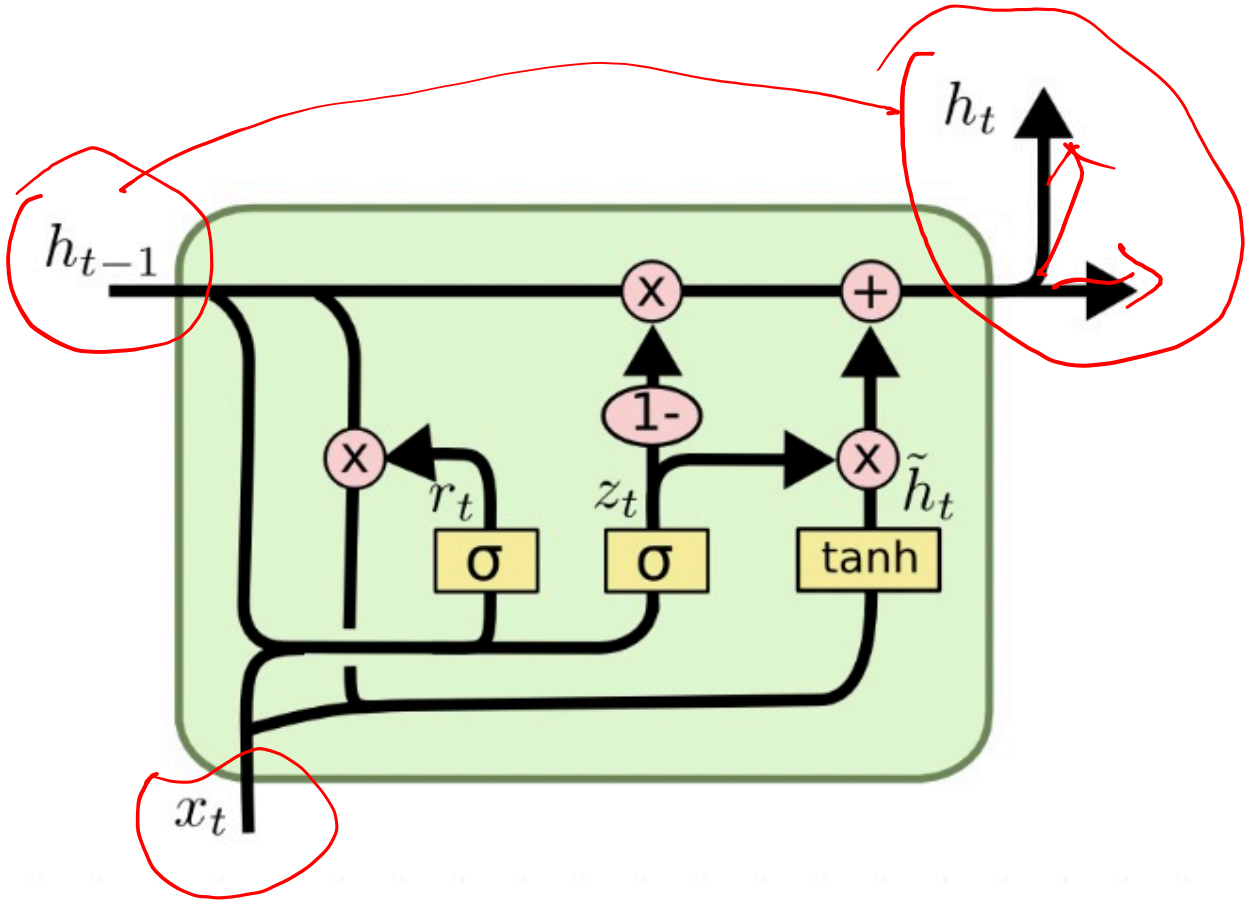
GRU

C_{t-1} X



$$z_t = \sigma(W_z \cdot [h_{t-1}, x_t])$$

$$r_t = \sigma[W_r \cdot [h_{t-1}, x_t])$$

$$\tilde{h_t} = \tanh(W \cdot [r_t * h_{t-1}, x_t])$$

$$h_t = (1 - z_t) * h_{t-1} + z_t * \tilde{h_t}$$