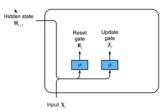
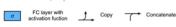
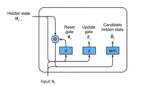
## GRU

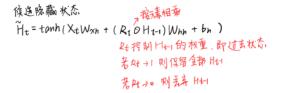
- 关注一个序列
  - 并不是每个观察值同等重要
  - 想只记住相关的观察需要: 能关注的机制 (更新门) , 能遗忘的机制 (遗忘门)



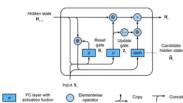
Rt = 6 (Xt W<sub>xr</sub> + H<sub>t-1</sub>Whr + br ) 重置 > 长度与H相同 Zt = 6 (X<sub>t</sub> W<sub>x2</sub> + H<sub>t-1</sub>Wh<sub>2</sub> + b<sub>2</sub> ) 更新











院状态, Ht = ZtOHt-1 + (1-Zt)OHt

Zt 控制 现有状态 Xt , 若 Zt >1 网 Ht = Ht-1, 去弃 3 Xt 若 Zt >0 则 Ht = Ĥt 保留 3 Xt 参与运算