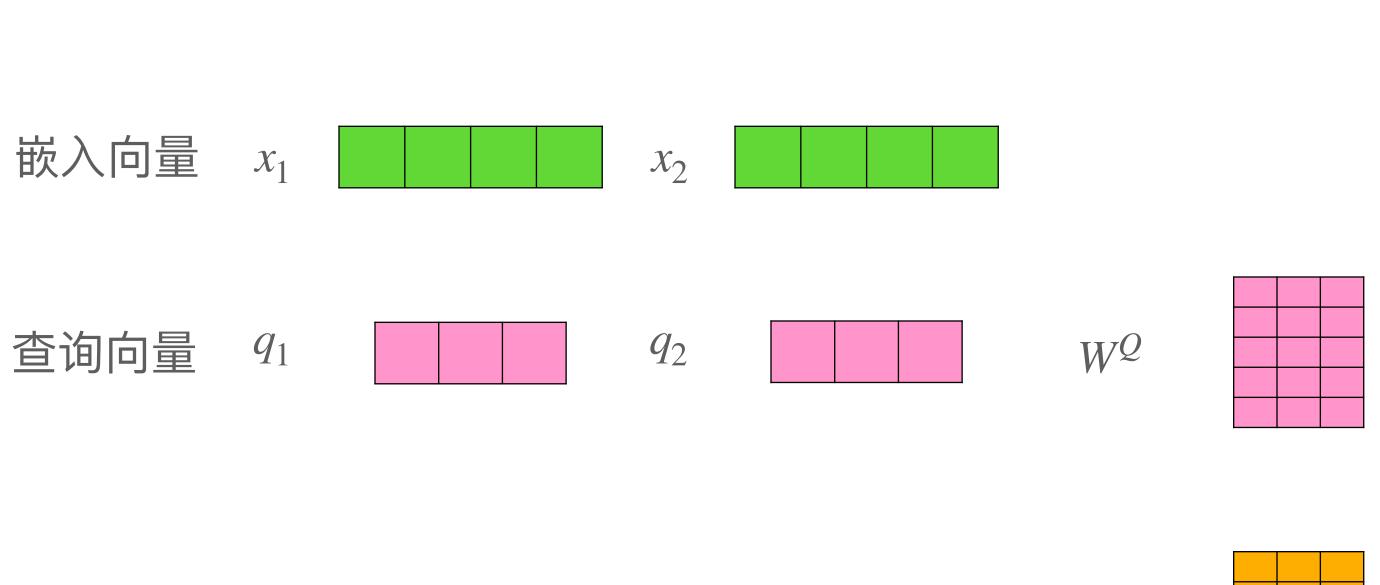
## Self-Attention

输入

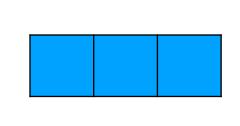






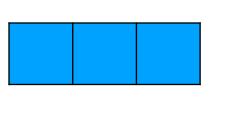
- Self-attention (自注意力) 机制是注意力机制的改进,更擅长捕捉数据或特征的内部相关性
- 首先通过三个可训练的、随机初始化的权重矩阵将嵌入向量转化为三个低维向量,随后计算自注意力信息

键向量



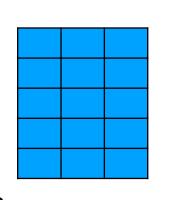
 $v_2$ 

 $k_2$ 



 $W^V$ 

 $W^K$ 



## Self-Attention

$$Attention(Q, K, V) = softmax(\frac{QK^{T}}{\sqrt{d_{k}}})V \dots \pm 3$$

