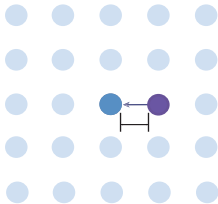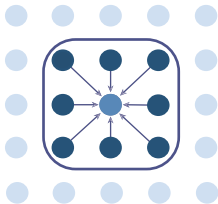*RBF Scores of Token x_i*
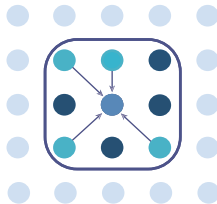
$$s_{i,j} = \exp\left(-\frac{\|Qx_i(t) - Kx_j(t)\|^2}{2\sigma^2}\right)$$

Local Interaction In $\mathcal{N}_i$

$$s_{i,j} = 0 \quad \text{if } j \notin \mathcal{N}_i$$

Selective Interaction In ξ_i^k

$$\xi_i^k = \text{TopK}\left(s_{i,\mathcal{N}_i}, k\right)$$
$$s_{i,j} = 0 \quad \text{if } j \notin \xi_i^k$$

● *Token x_i* ● *Token x_j* ● *Tokens in $\mathcal{N}_i$* ● *Tokens Selected* ☐ *Local Interaction Area $\mathcal{N}_i$*