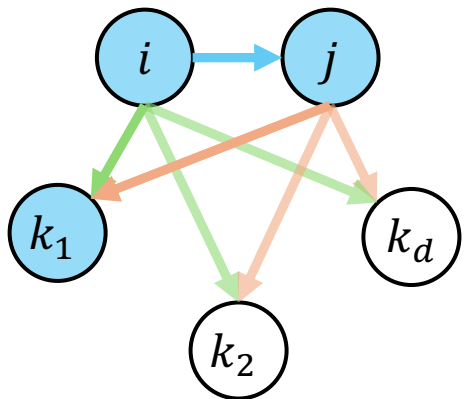



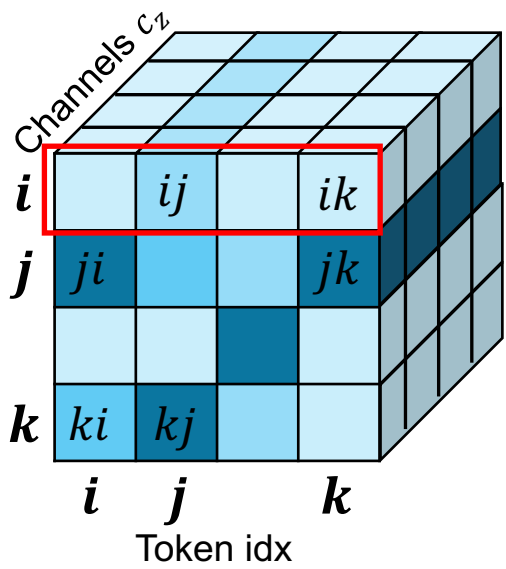


### Triangle Self Attention around "starting node"

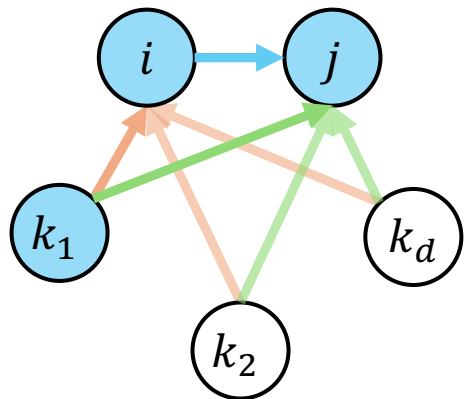


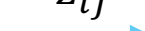
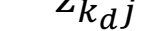
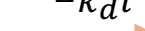
-   $z_{ij}$  Used to compute  $q_{ij}$
-   $z_{ik_d}$  Used to compute  $k_{ik_d}$  and  $v_{ik_d}$
-   $z_{jk_d}$  Used to compute  $b_{jk_d}$

### Pair representation $z$



### Triangle Self Attention around "ending node"



-   $z_{ij}$  Used to compute  $q_{ij}$
-   $z_{k_d j}$  Used to compute  $k_{k_d j}$  and  $v_{k_d j}$
-   $z_{k_d i}$  Used to compute  $b_{k_d i}$

### Pair representation $z$

