# A Raw mRNA counts (UMI)

Cell	Gene1	Gene2	Gene3	Gene4	
ATCG	0	9	0	0	
AGTG	8	0	0	0	
ATTC	0	7	12	2	
CAGT	0	0	1	5	

## Cell Distance Matrix (Native)

B

	ATCG	AGTG	ATTC	CAGT
ATCG	0	12	12	10
AGTG	12	0	16	9
ATTC	12	16	0	13
CAGT	10	9	13	0

## Knn Graph (Native)

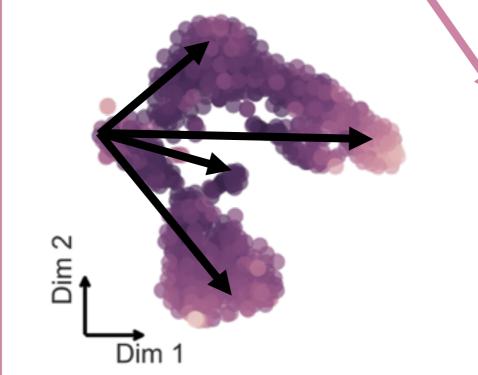
	ATCG	AGTG	ATTC	CAGT
ATCG	0	0	1	0
AGTG	1	0	0	1
ATTC	0	0	0	0
CAGT	1	1	0	0

#### **Reduced Dimensions**

Cell	Dim1	Dim2
ATCG	10	25
AGTG	24	13
ATTC	22	7
CAGT	15	3

### Cell Distance Matrix (Latent)

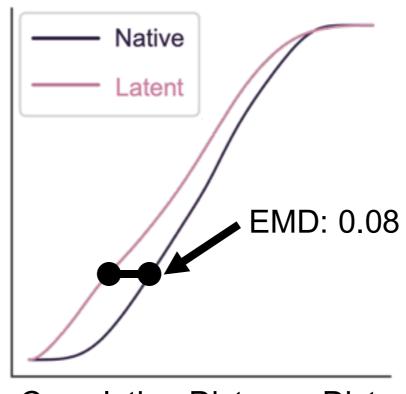
		ATCG	AGTG	ATTC	CAGT
	ATCG	0	18	22	23
•	AGTG	18	0	6	13
	ATTC	22	6	0	8
	CAGT	23	13	8	0



### Knn Graph (Latent)

	ATCG	AGTG	ATTC	CAGT
ATCG	0	0	0	0
AGTG	1	0	1	0
ATTC	0	1	0	1
CAGT	0	0	0	0

Knn Preservation: 97.2 %



Cumulative Distance Dist.

