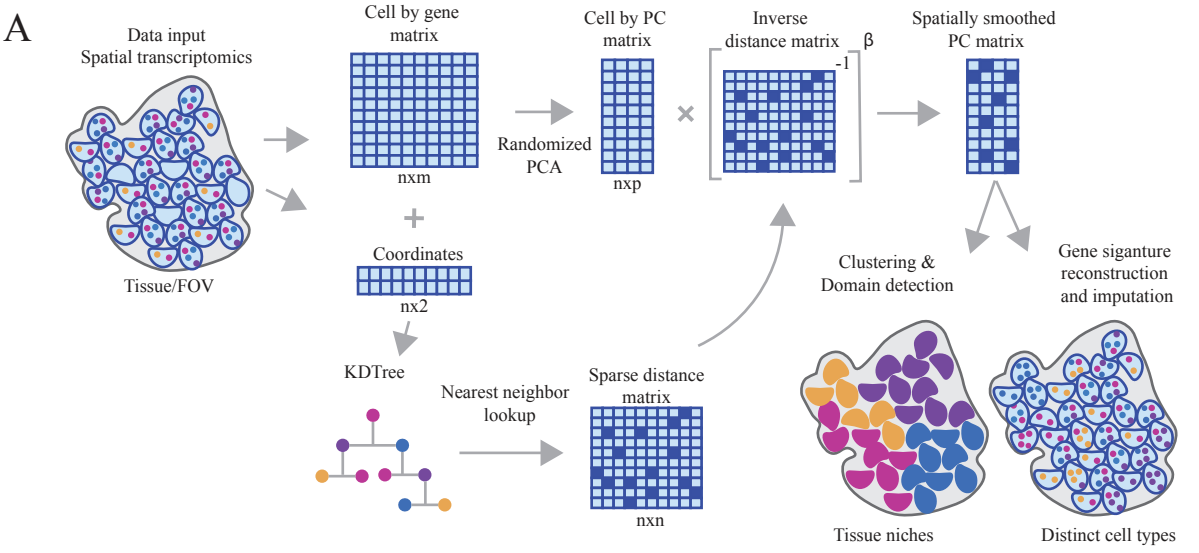
A
Data input
Spatial transcriptomics
Tissue/FOV
Cell by gene
matrix
nxm
+
Coordinates
nx2
KDTree
Nearest neighbor
lookup
Randomized
PCA
Cell by PC
matrix
nxp
×
Sparse distance
matrix
nxn
Inverse
distance matrix
β
-1
Spatially smoothed
PC matrix
Clustering &
Domain detection
Gene siganture
reconstruction
and imputation
Tissue niches
Distinct cell types