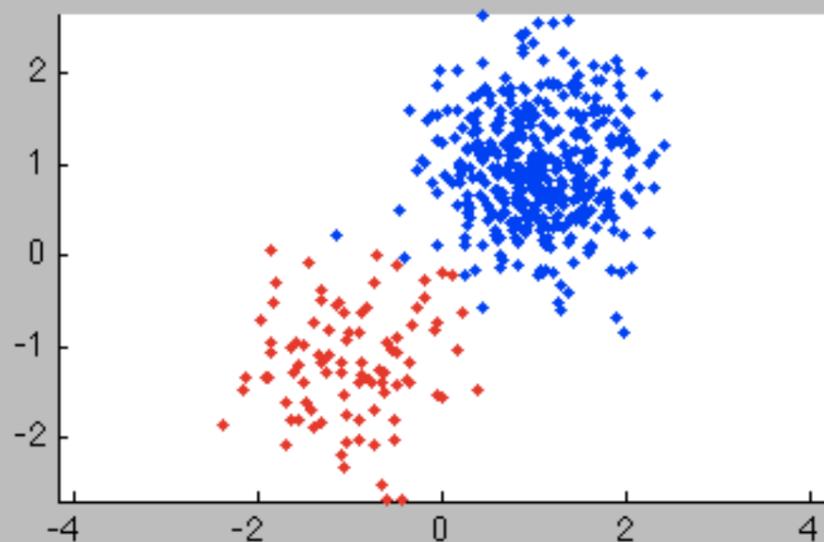
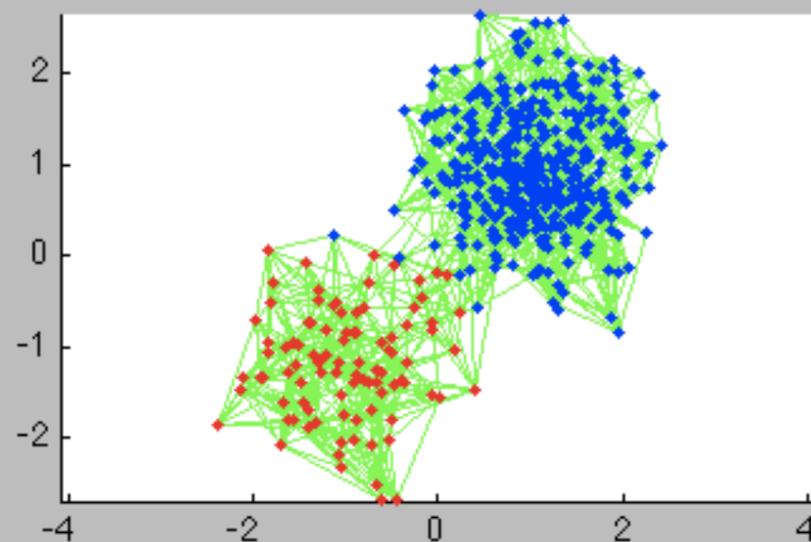


# Demo Spectral Clustering

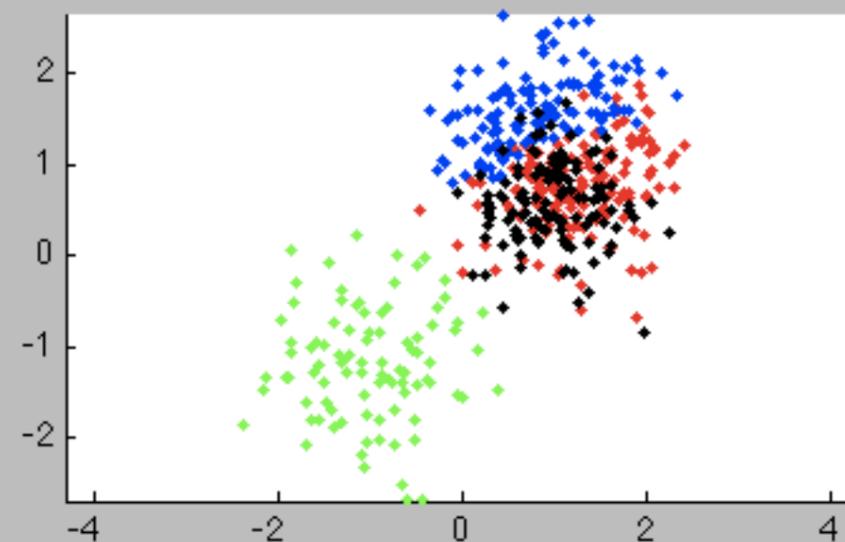
Data



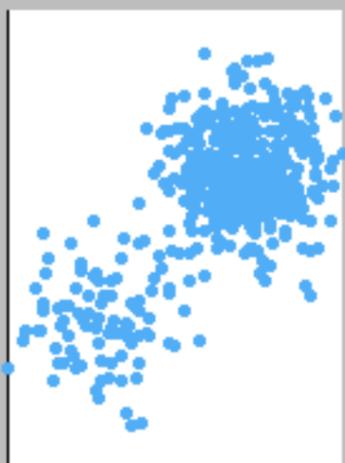
Symmetric KNN



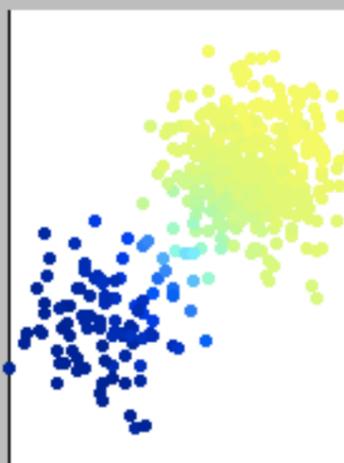
Current Clustering



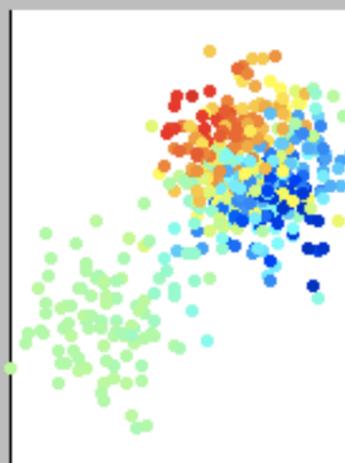
eig 1



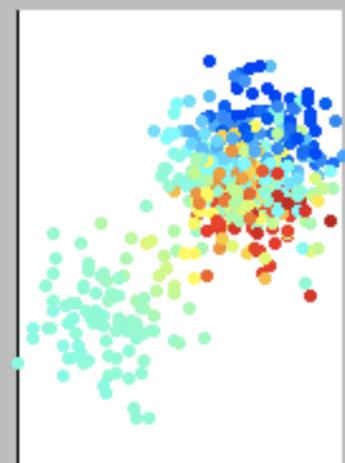
eig 2



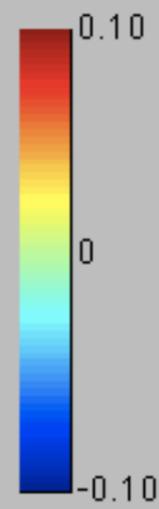
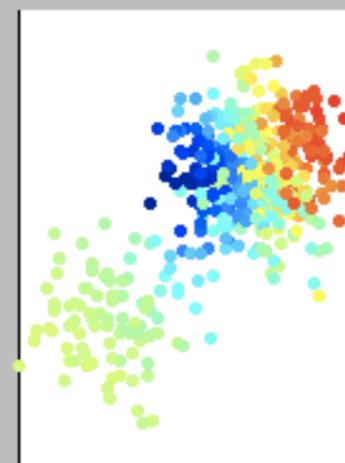
eig 3



eig 4

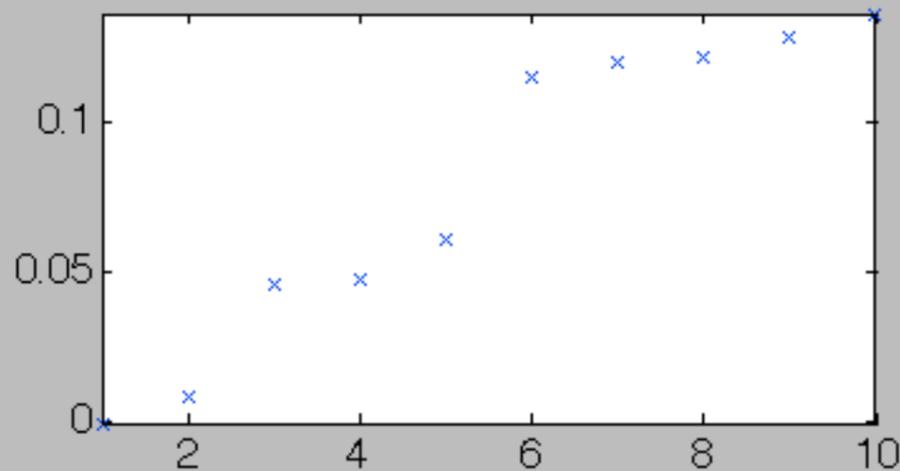


eig 5

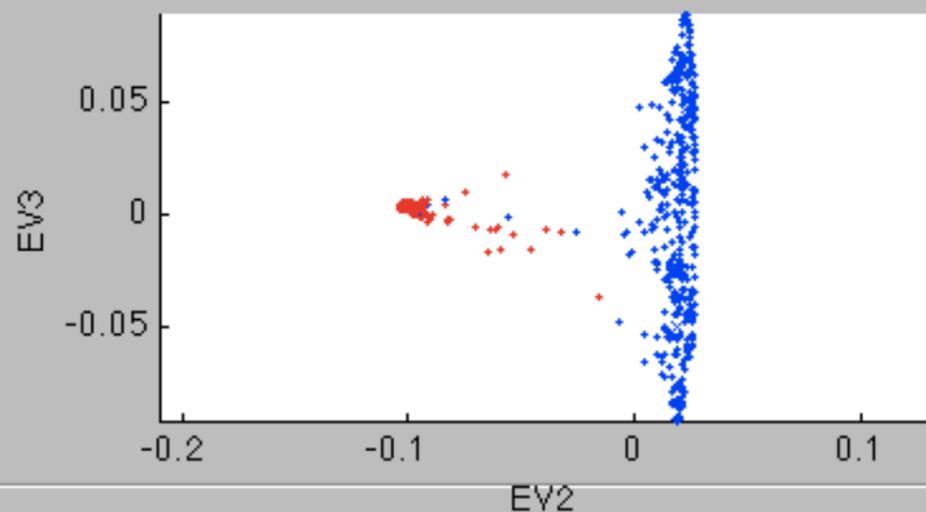


Number of connected components: 1

Eigenvalues



Embedding in  $R^3$  - EV 2-4



## Data

### Data Set

Two Gaussians (unbalanced)

### Dimension

3

## Graph

### Graph Type

Symmetric KNN

### Number of Neighbors

K=10

### Kernel width

Sigma = 1

## Clustering

### Number of Clusters

N=4

Update All