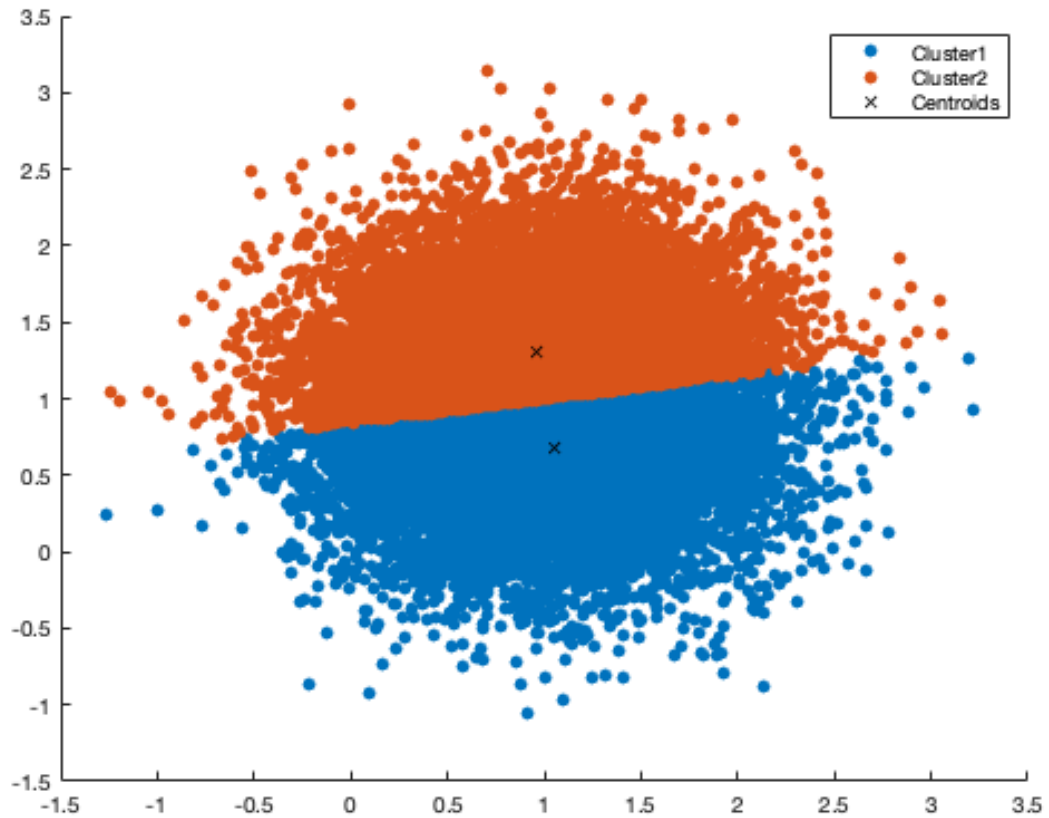
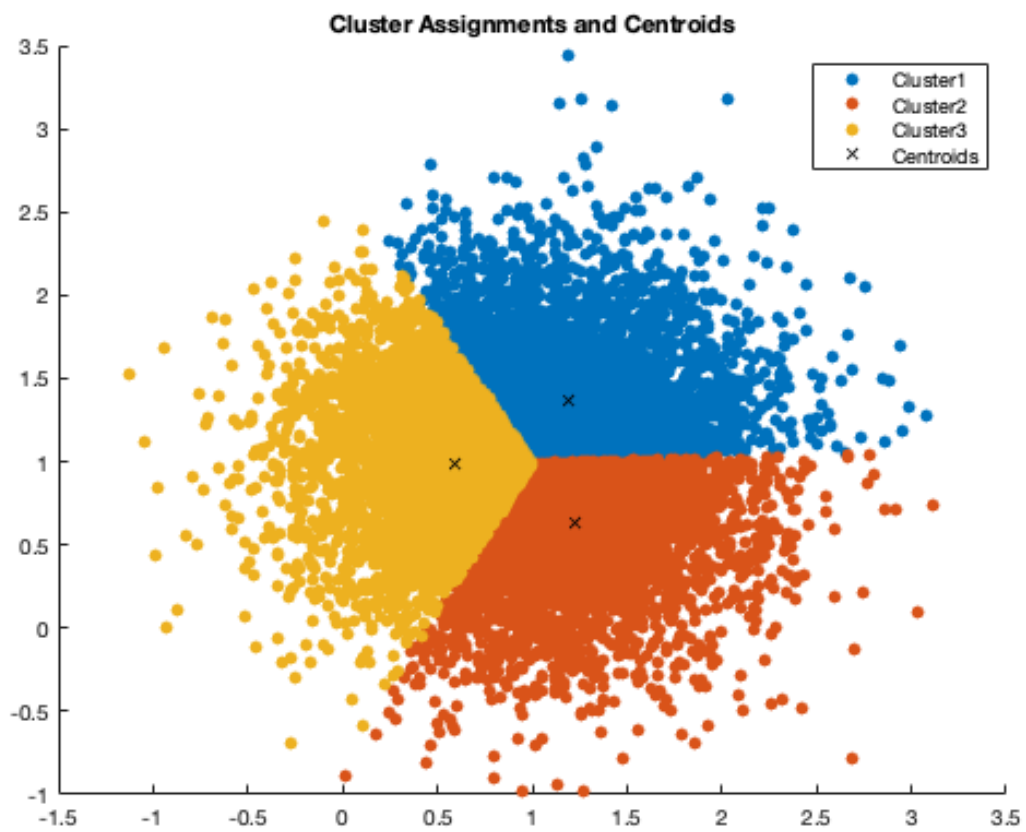


1. Plots for the first data set:

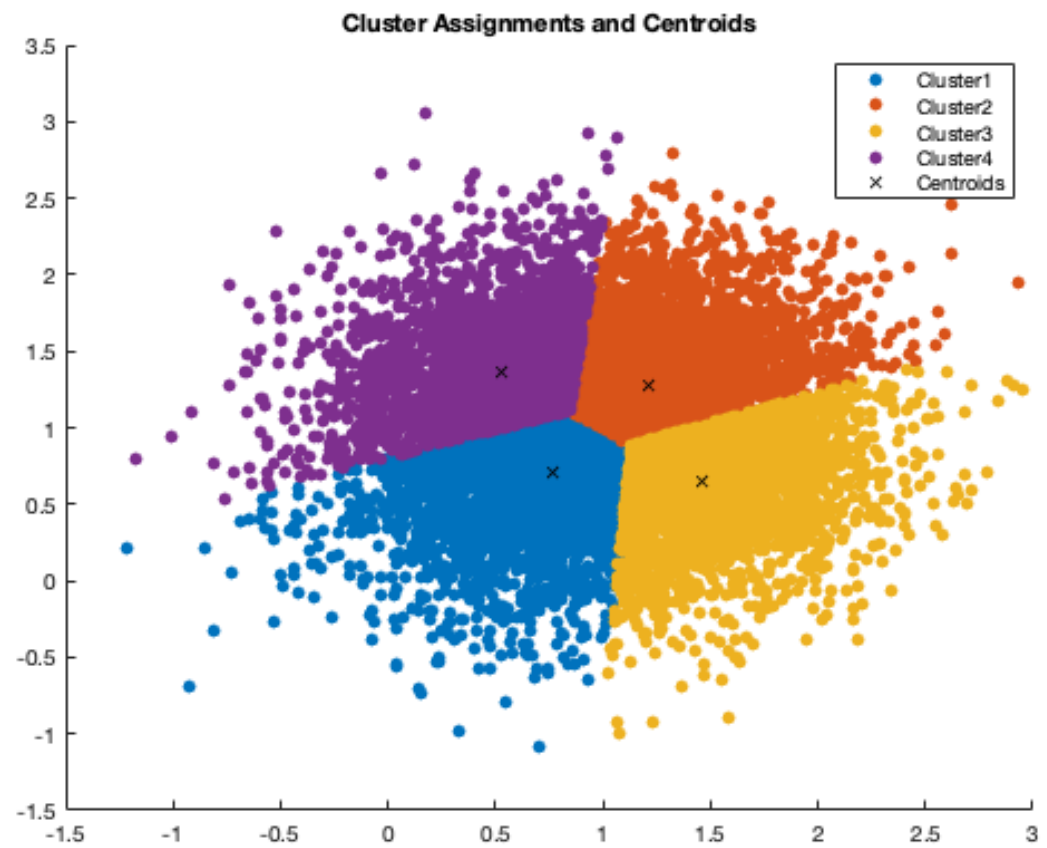
```
N = 10000;  
X = [randn(N, 2) * 0.55 + ones(N, 2); randn(N, 2) * 0.25 + ones(N, 2)];  
  
k = 2
```



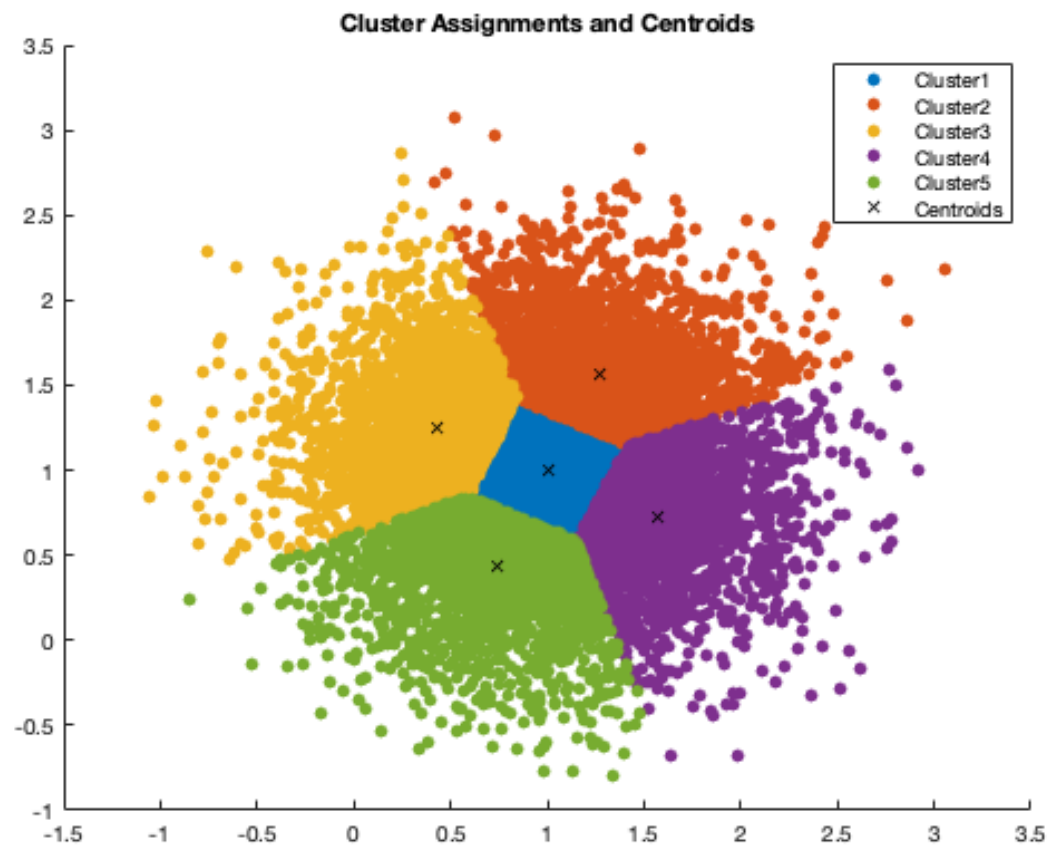
$k = 3$



$k = 4$

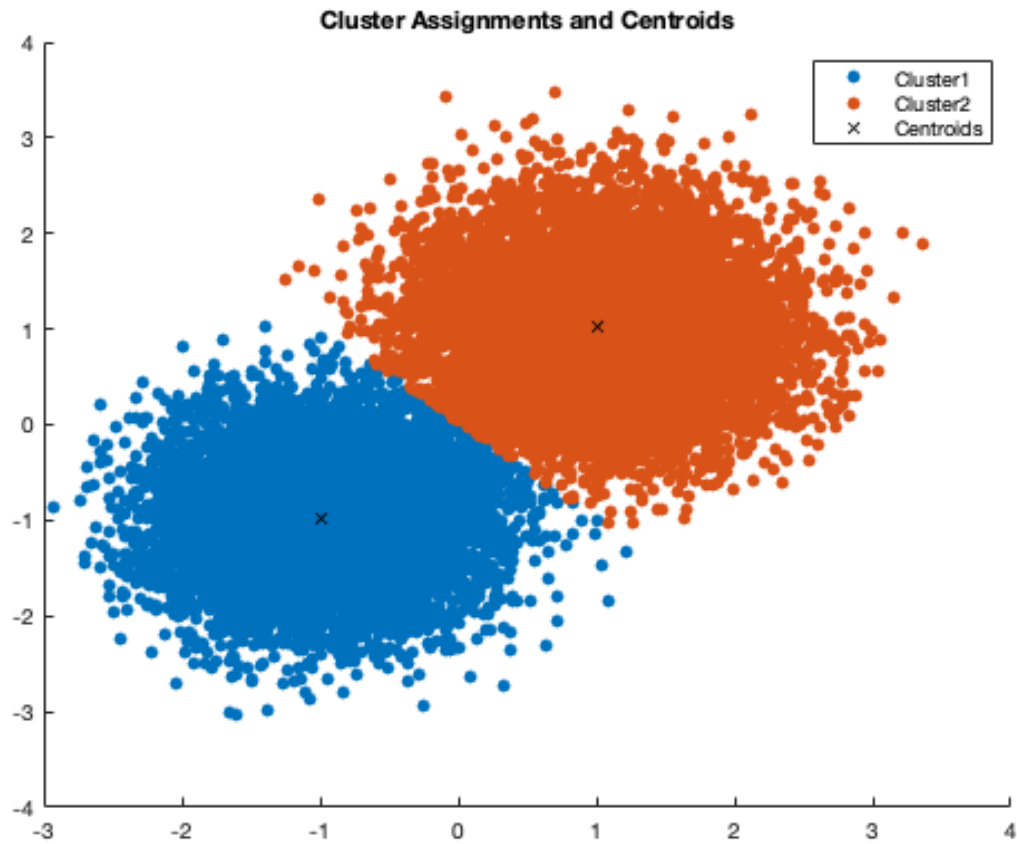


k = 5

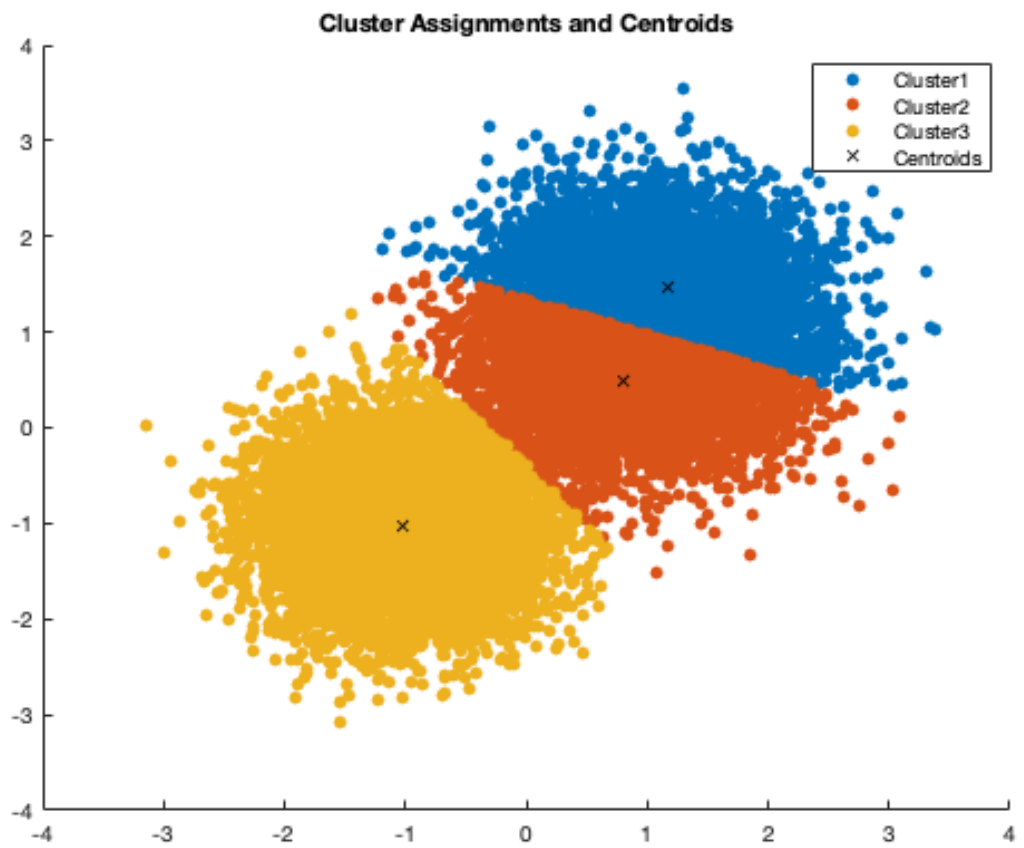


1. Plots for the first data set:

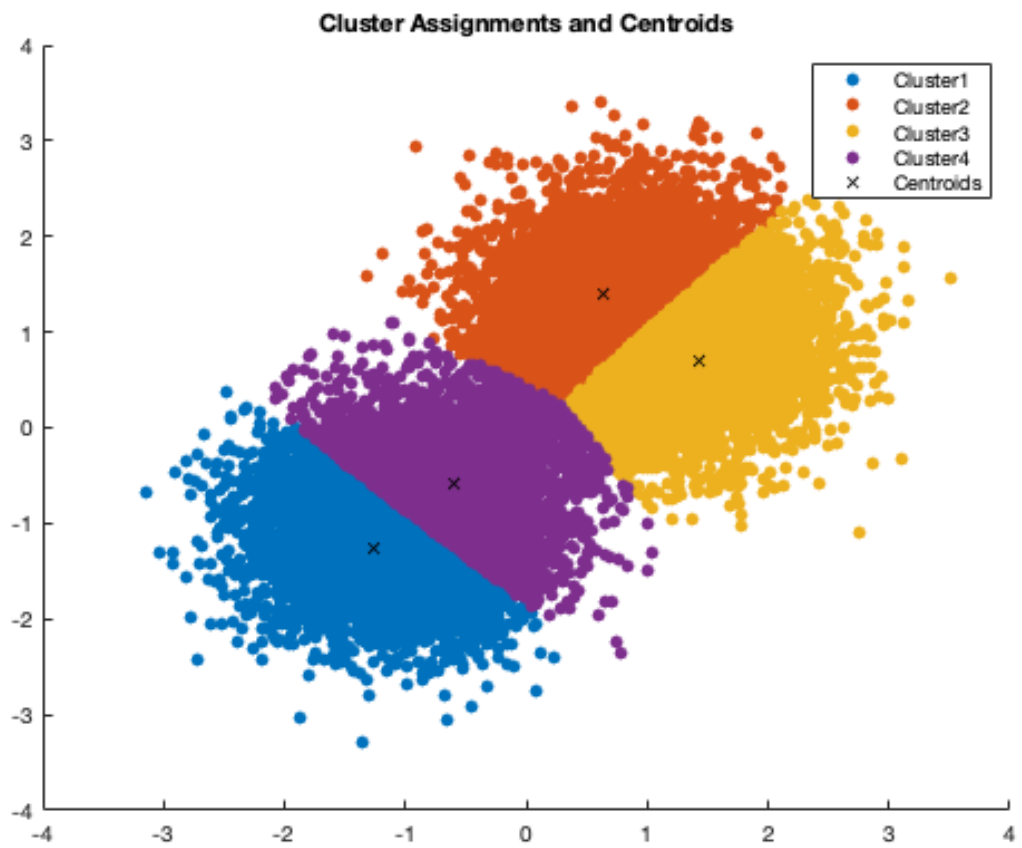
```
N = 20000;  
X = [randn(N, 2) * 0.55 - ones(N, 2); randn(N, 2) * 0.65 + ones(N, 2)];  
k = 2
```



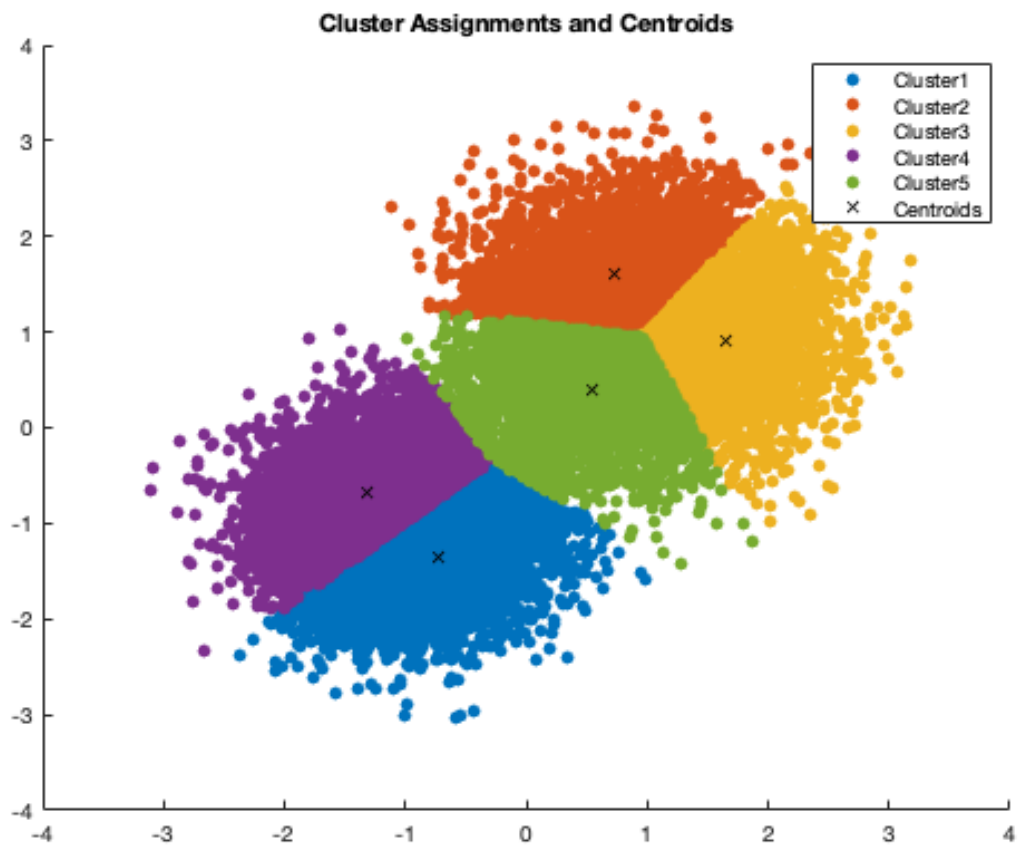
$k = 3$



$k = 4$

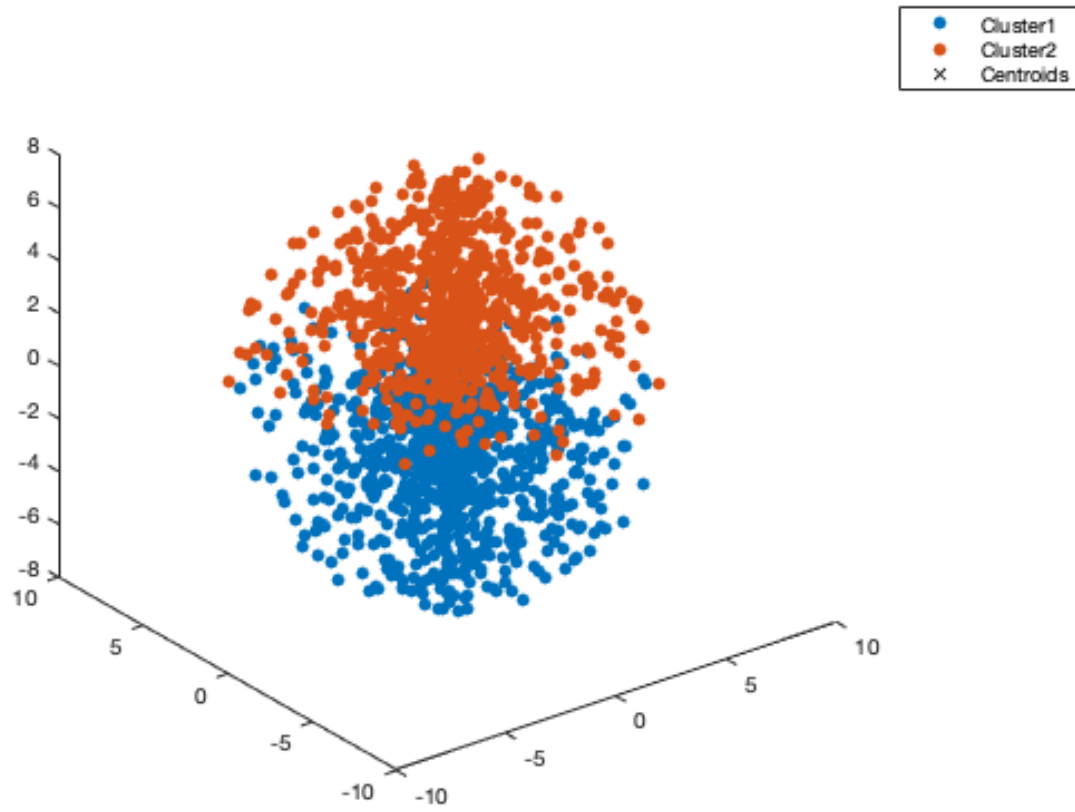


k = 5

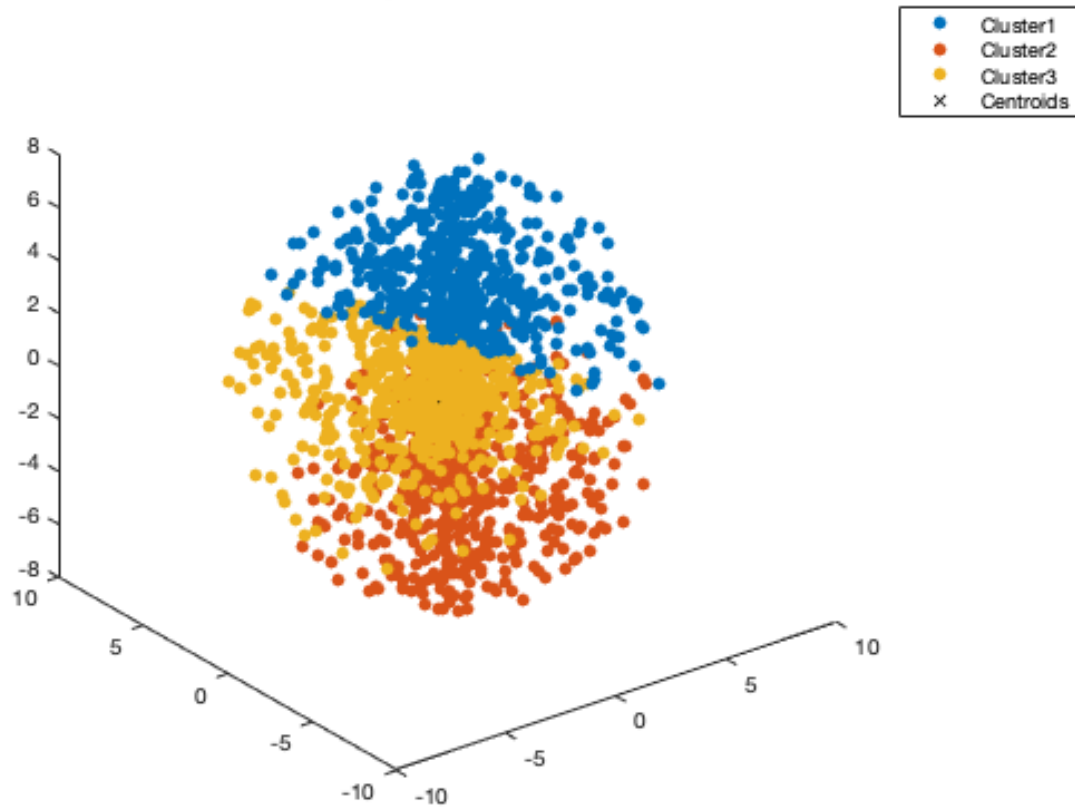


3. 3d_sphere.mat

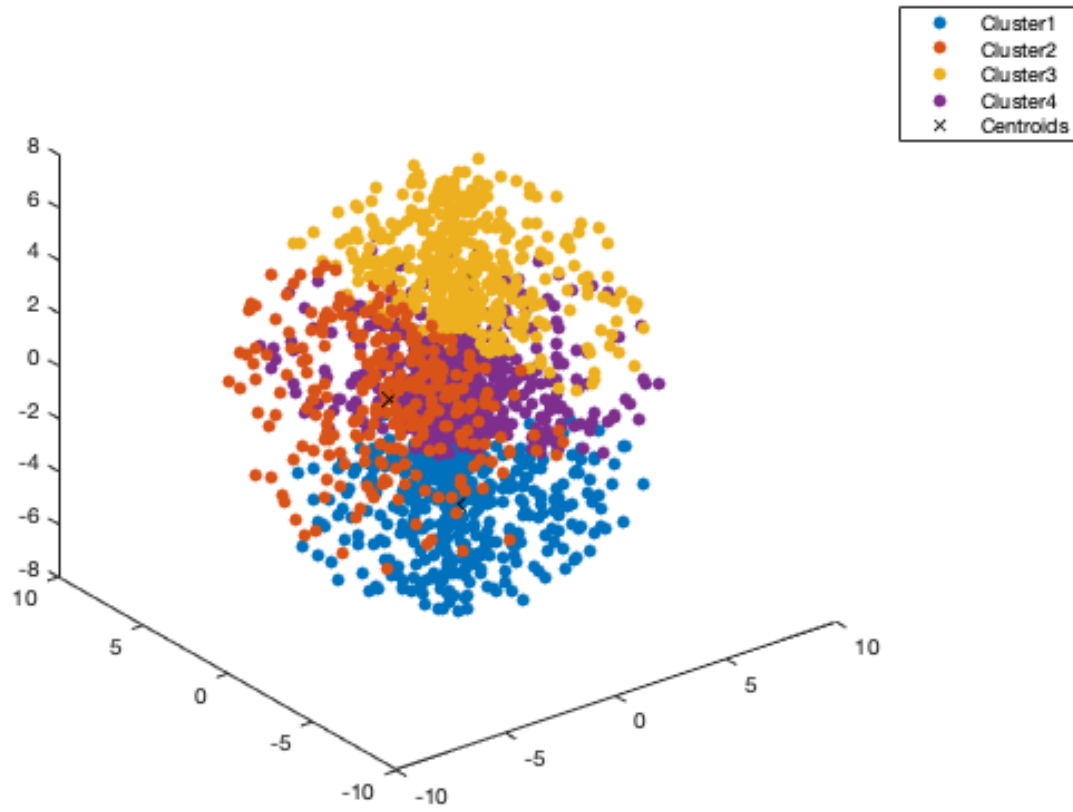
Cluster Assignments and Centroids



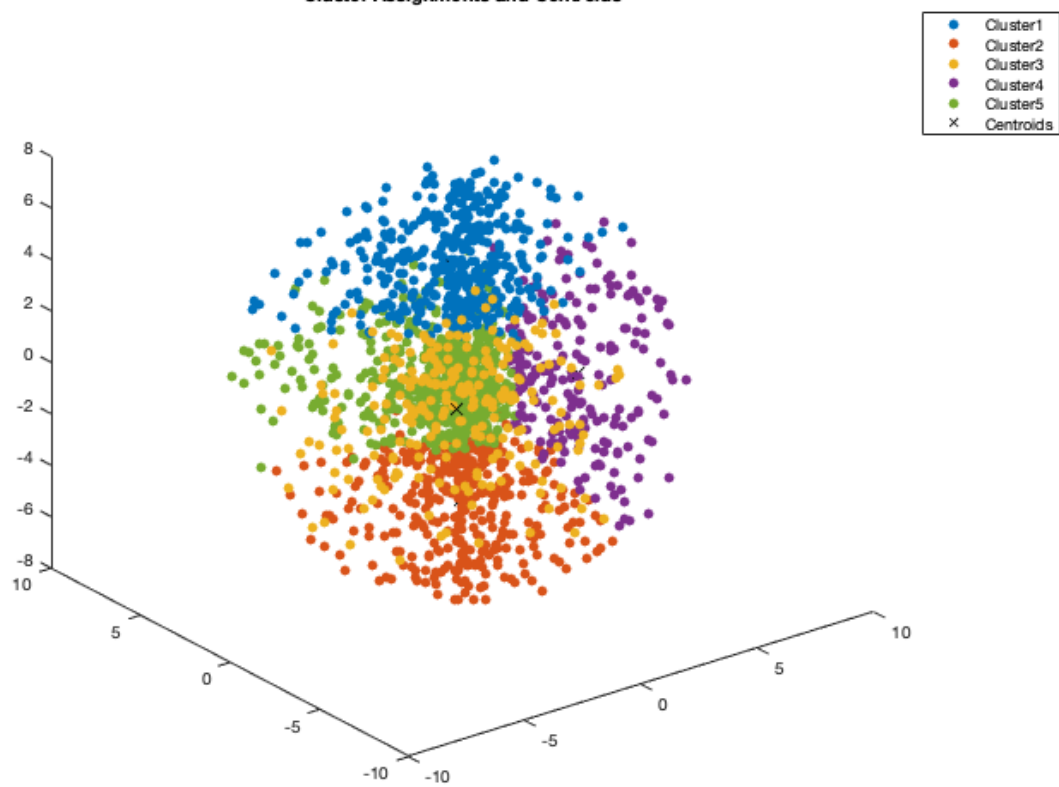
Cluster Assignments and Centroids



Cluster Assignments and Centroids

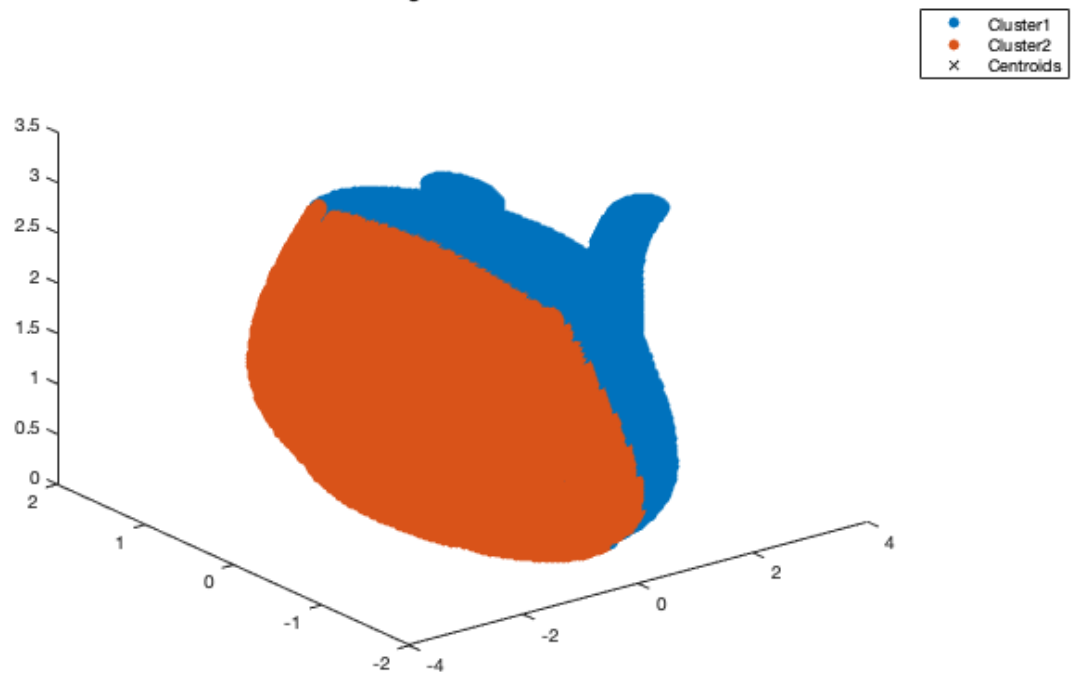


Cluster Assignments and Centroids

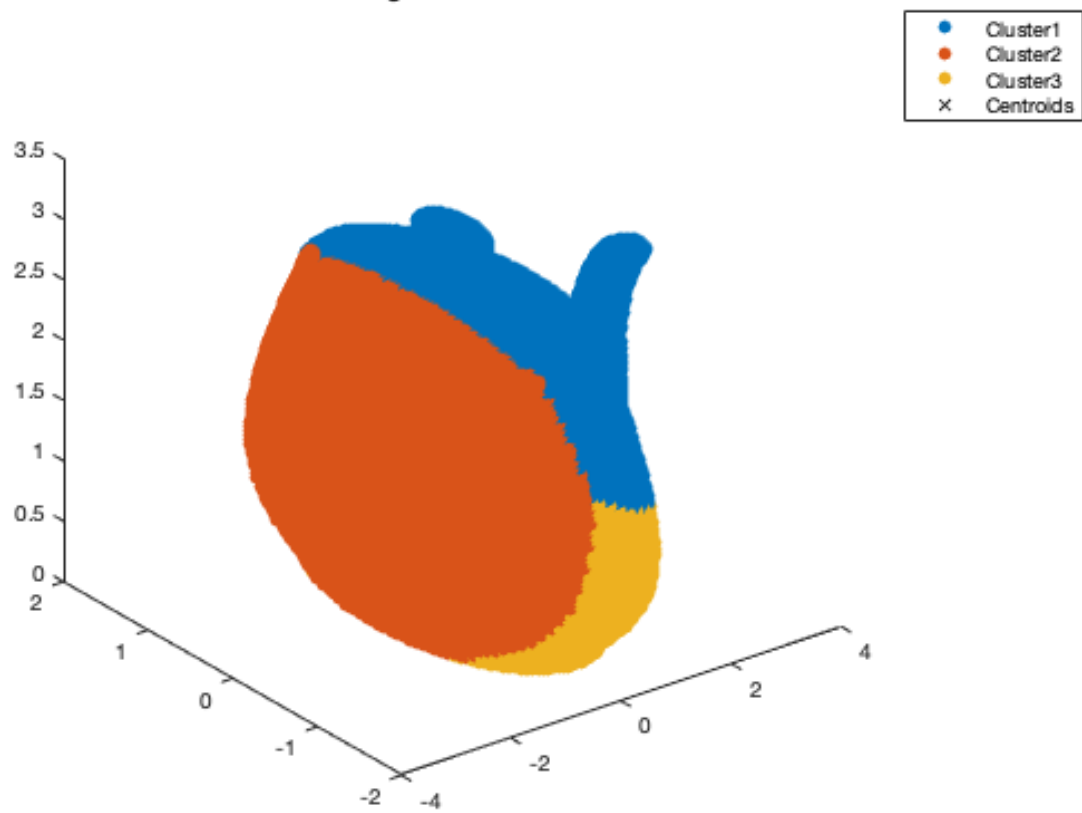


4. teapot.mat

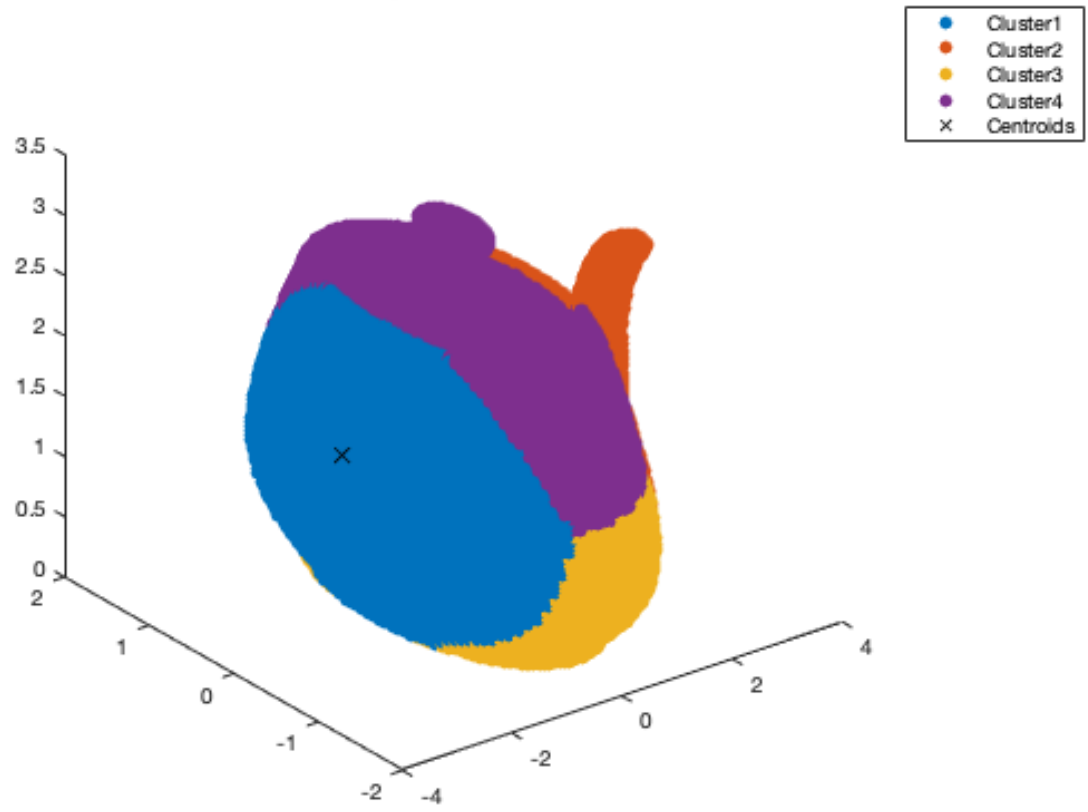
Cluster Assignments and Centroids



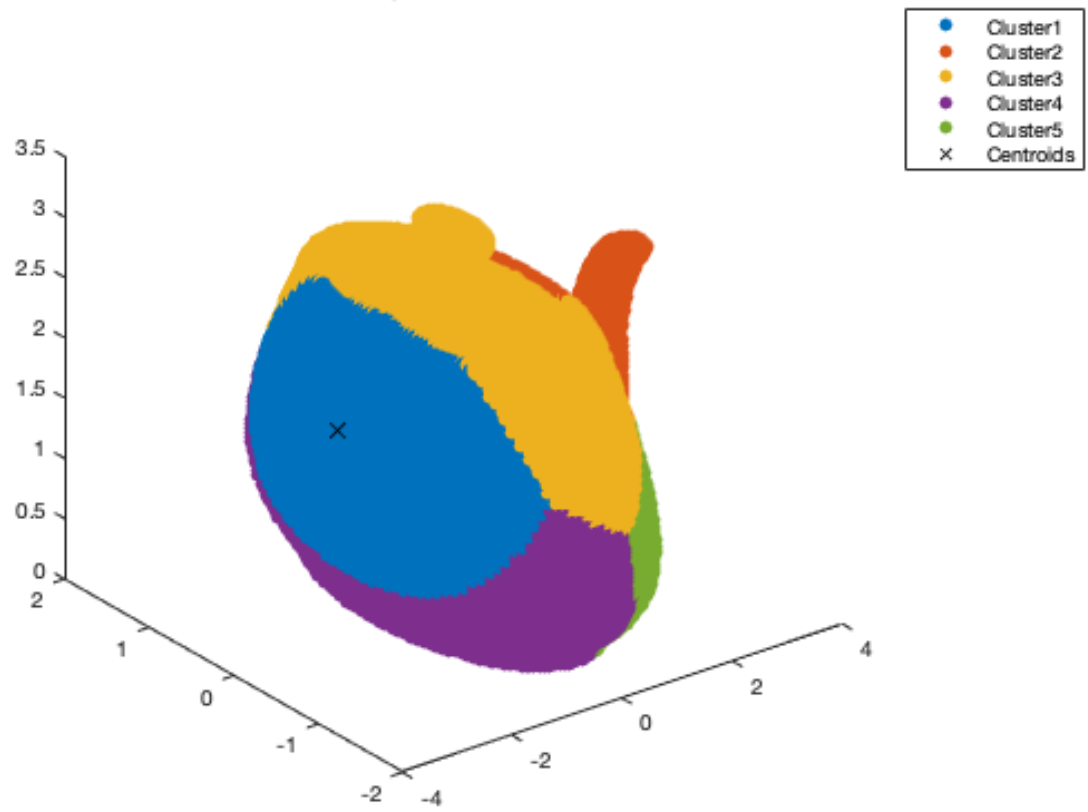
Cluster Assignments and Centroids



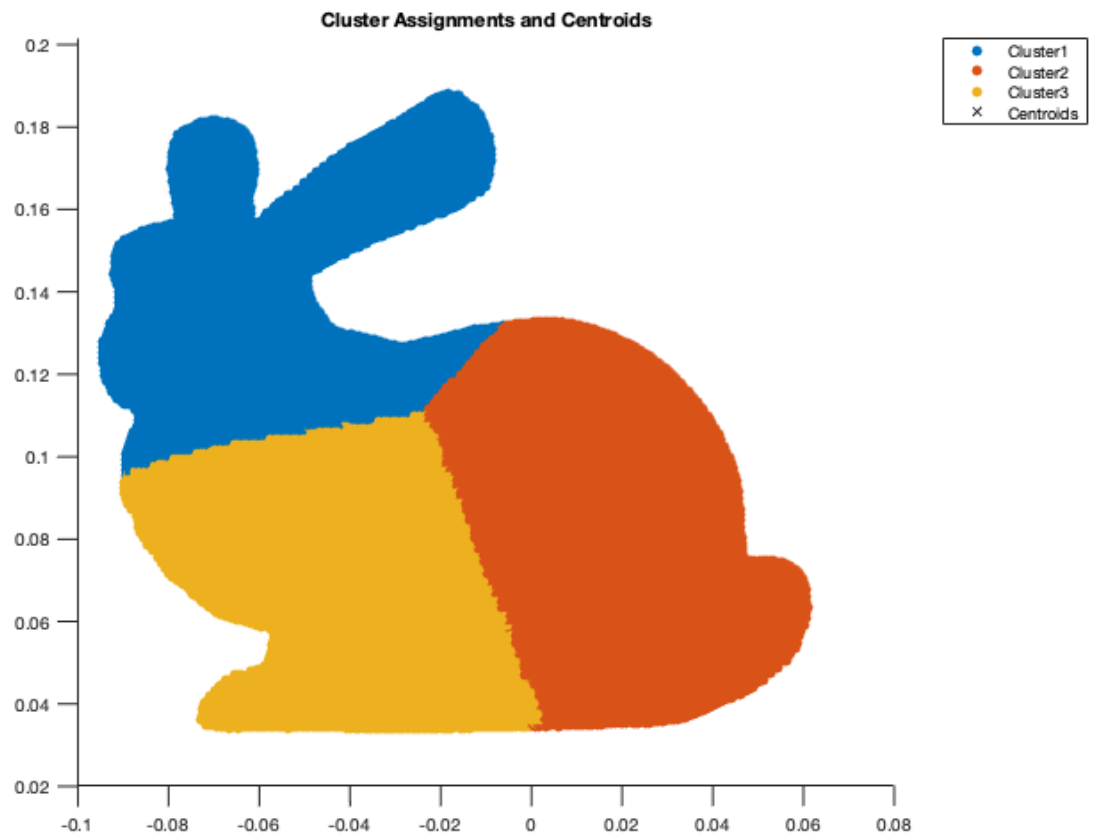
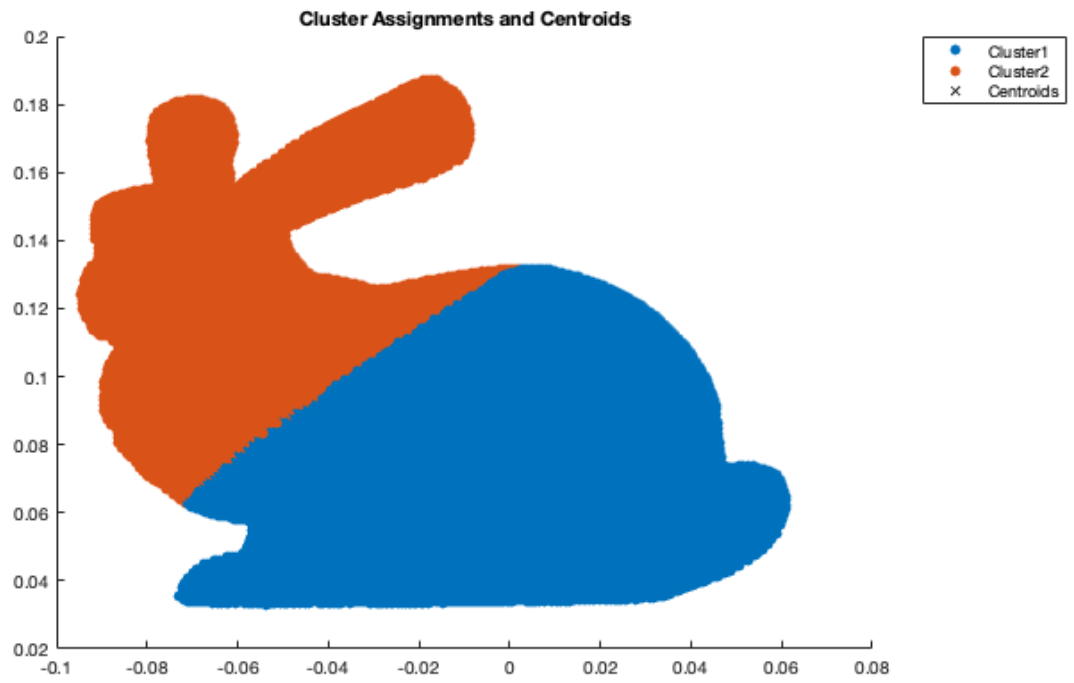
Cluster Assignments and Centroids



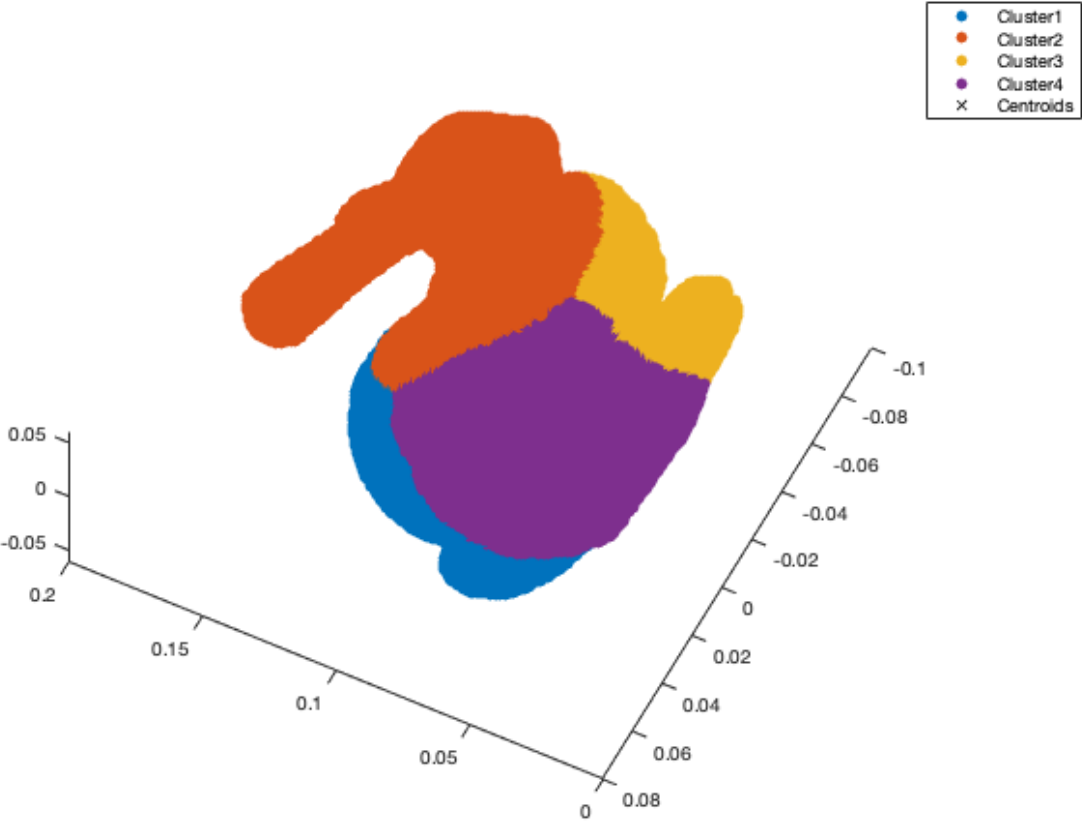
Cluster Assignments and Centroids



5. bun_zipper. mat



Cluster Assignments and Centroids



Cluster Assignments and Centroids

