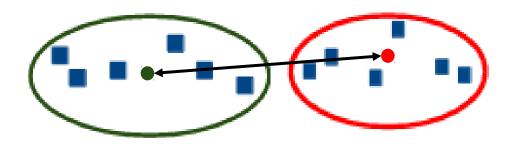




Distance between Centroids

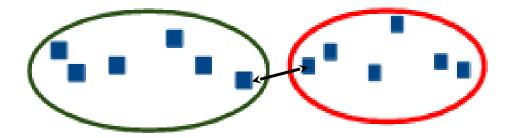




- Distance between Centroids
- MIN



- Distance between Centroids
- MIN

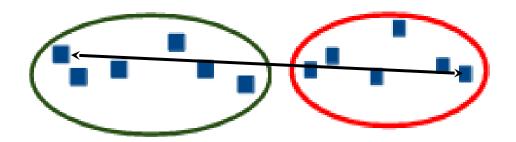




- Distance between Centroids
- MIN
- MAX



- Distance between Centroids
- MIN
- MAX

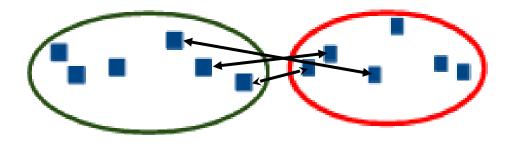




- Distance between Centroids
- MIN
- MAX
- K-Linkage



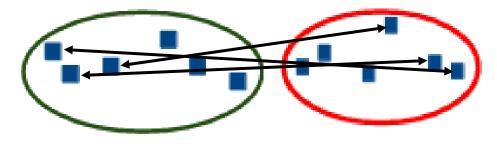
- Distance between Centroids
- MIN
- MAX
- K-Linkage
 - K-min Linkage



$$K = 3$$



- Distance between Centroids
- MIN
- MAX
- K-Linkage
 - K-min Linkage
 - K-max Linkage



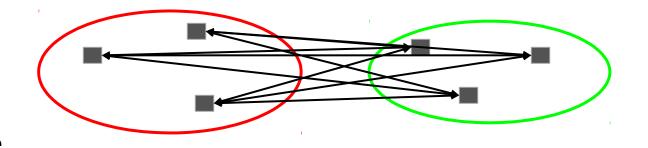
$$K = 3$$



- Distance between Centroids
- MIN
- MAX
- K-Linkage
 - K-min Linkage
 - K-max Linkage
- Group Average



- Distance between Centroids
- MIN
- MAX
- K-Linkage
 - K-min Linkage
 - K-max Linkage
- Group Average

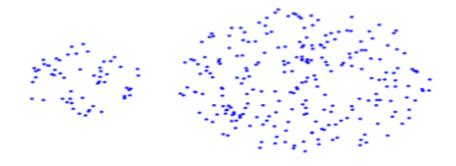




Strengths of using MIN distance



Strengths of using MIN distance

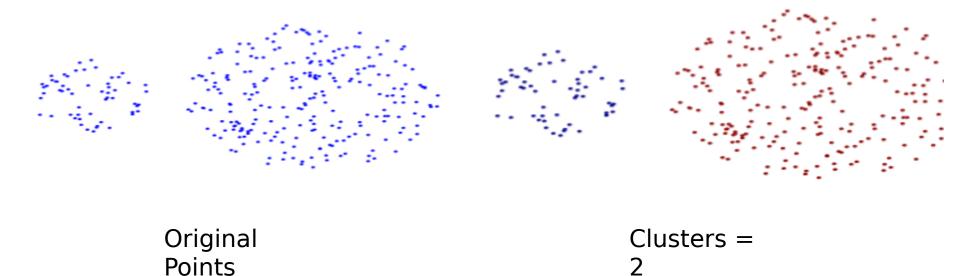


Original Points



Strengths of using MIN distance

O It can handle non-elliptical shapes





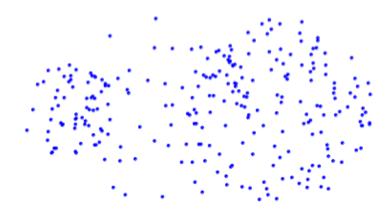
Weakness of using MIN distance

Can not handle noise and outliers



Weakness of using MIN distance

Can not handle noise and outliers

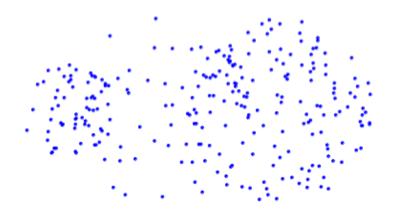


Original Points

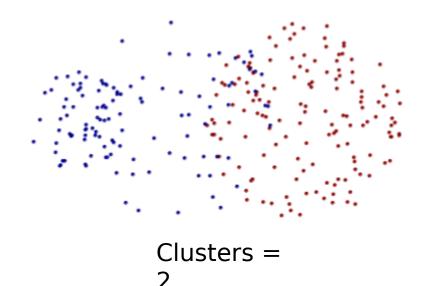


Weakness of using MIN distance

Can not handle noise and outliers



Original Points

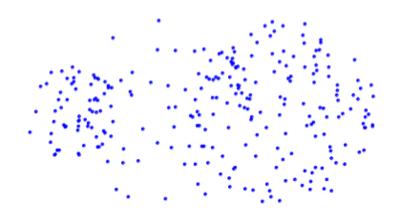




Strengths of using MAX distance



Strengths of using MAX distance

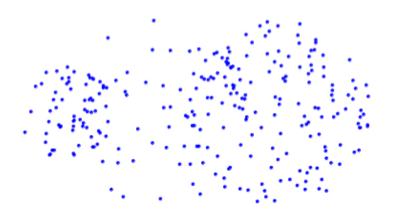


Original Points

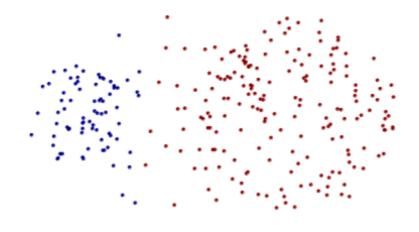


Strengths of using MAX distance

It can handle noise and outliers



Original Points



Clusters = 2



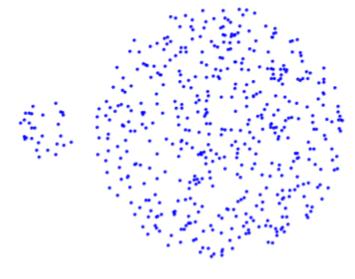
Weakness of using MAX distance

- Breaks large clusters
- Can not handle globular clusters



Weakness of using MAX distance

- Breaks large clusters
- Can not handle globular clusters

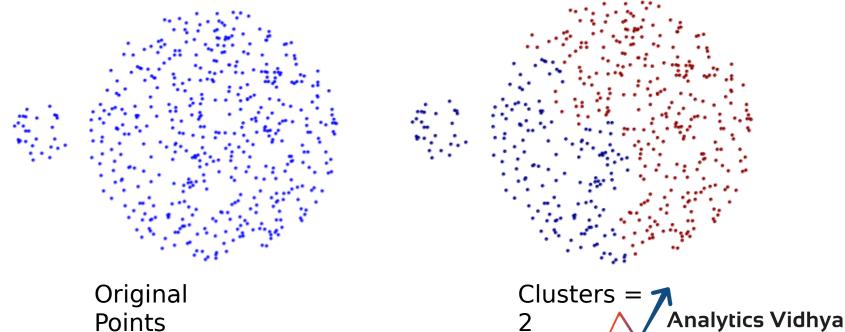


Original Points



Weakness of using MAX distance

- Breaks large clusters
- Can not handle globular clusters



Thank You!

