Unsupervised Learning

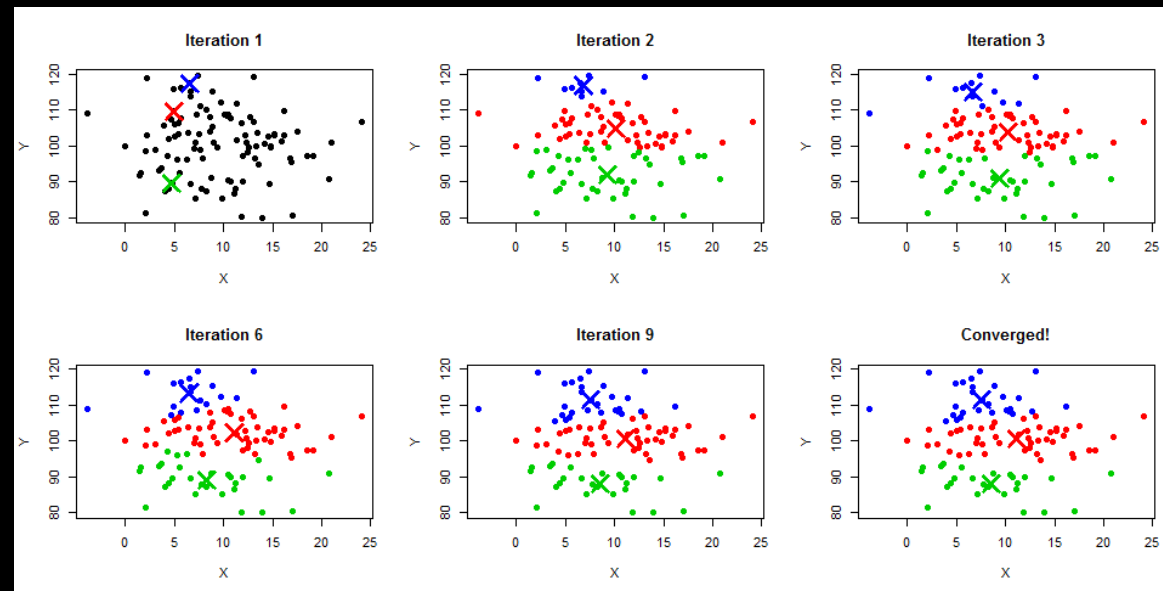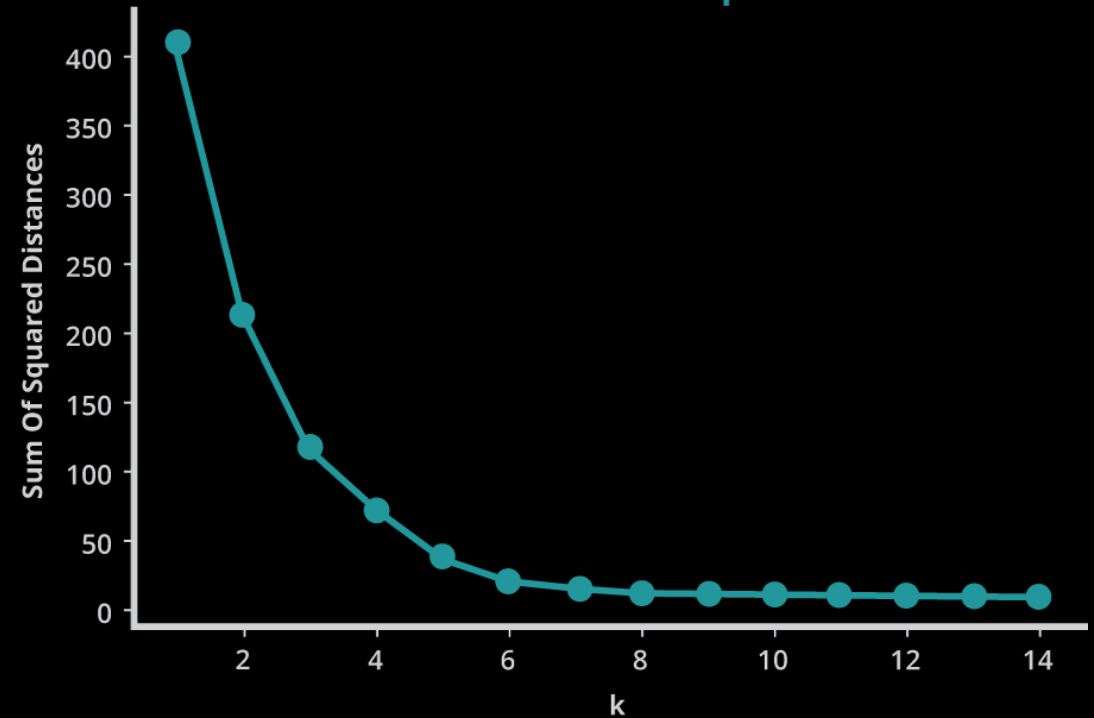# Unsupervised learning Methods

- Distance Grouping

- Hierarchical Clustering

- Dimensionality reduction
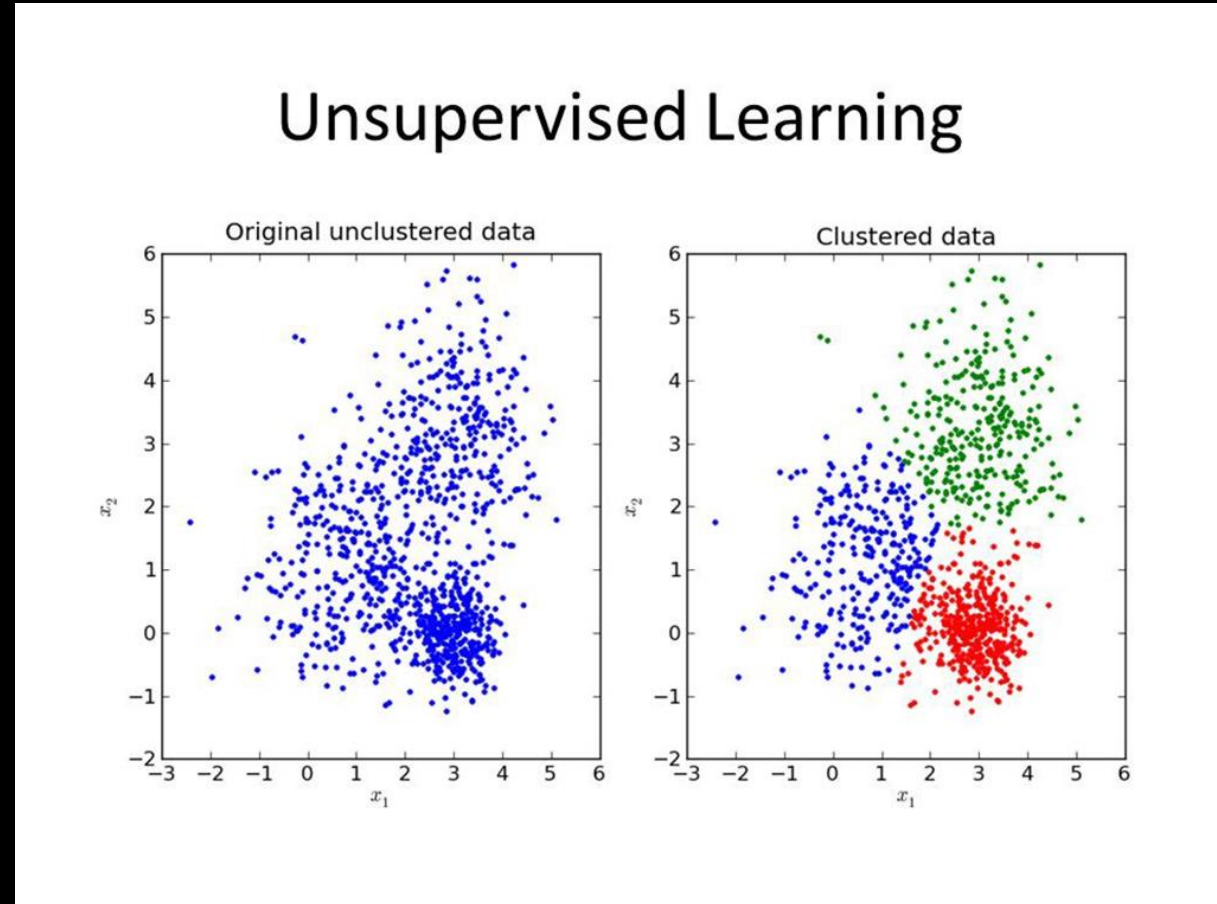
K Means

- Uses an iterative method to cluster data.

- Uses metric K to decide how many clusters to model.

- Uses a distance formula to find cluster centers.

- Uses Elbow method to find optimal K.

Hierarchical clustering

- Uses a distance metric to cluster like points together over and over.

- The groups form larger and larger groups until unique classes are formed.

Cluster Dendrogram
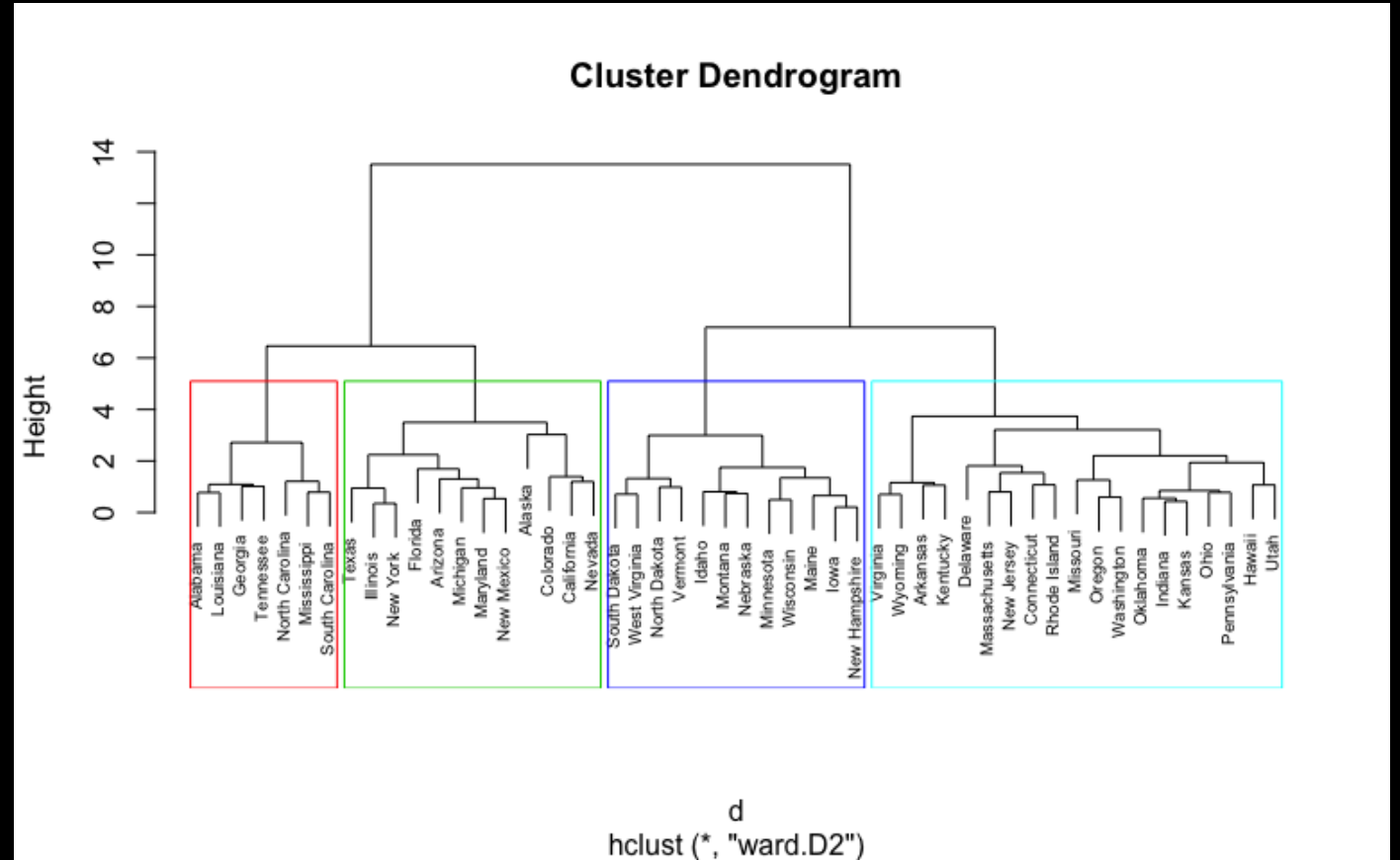
Dimensionality Reduction

- Reduced the dimension of data to reduce complexity.

- Removes redundant features.

- Remaps the data after reducing it.

- Can eliminate useful information.