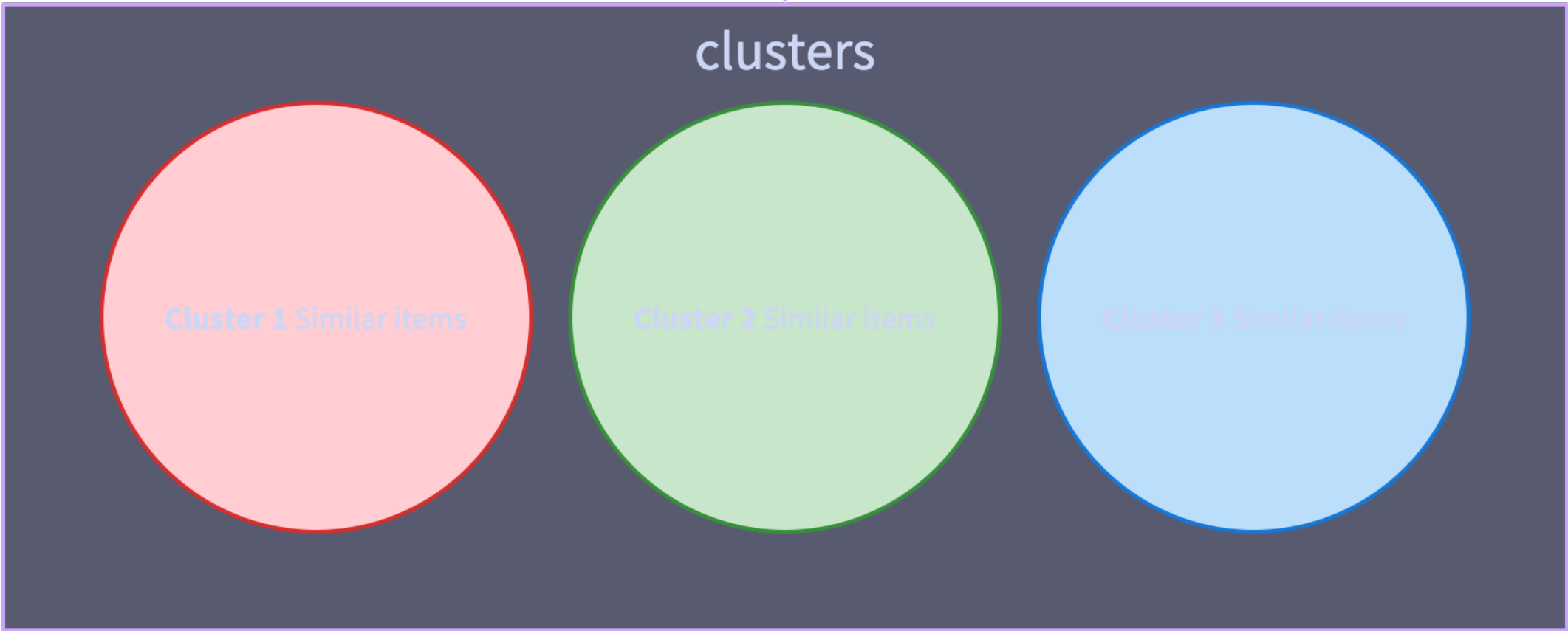# Clustering - Unsupervised Learning

Unlabeled Data No ground truth labels Just raw features

↓

Clustering Algorithm K-Means, DBSCAN, Hierarchical, etc. Find natural groupings

↓

Group by similarity

↓

clusters

Cluster 1 Similar items

Cluster 2 Similar items

Cluster 3 Similar items

↓

Applications Customer segmentation, anomaly detection, image compression, gene expression analysis