Spherical Clusters
Best: K-means
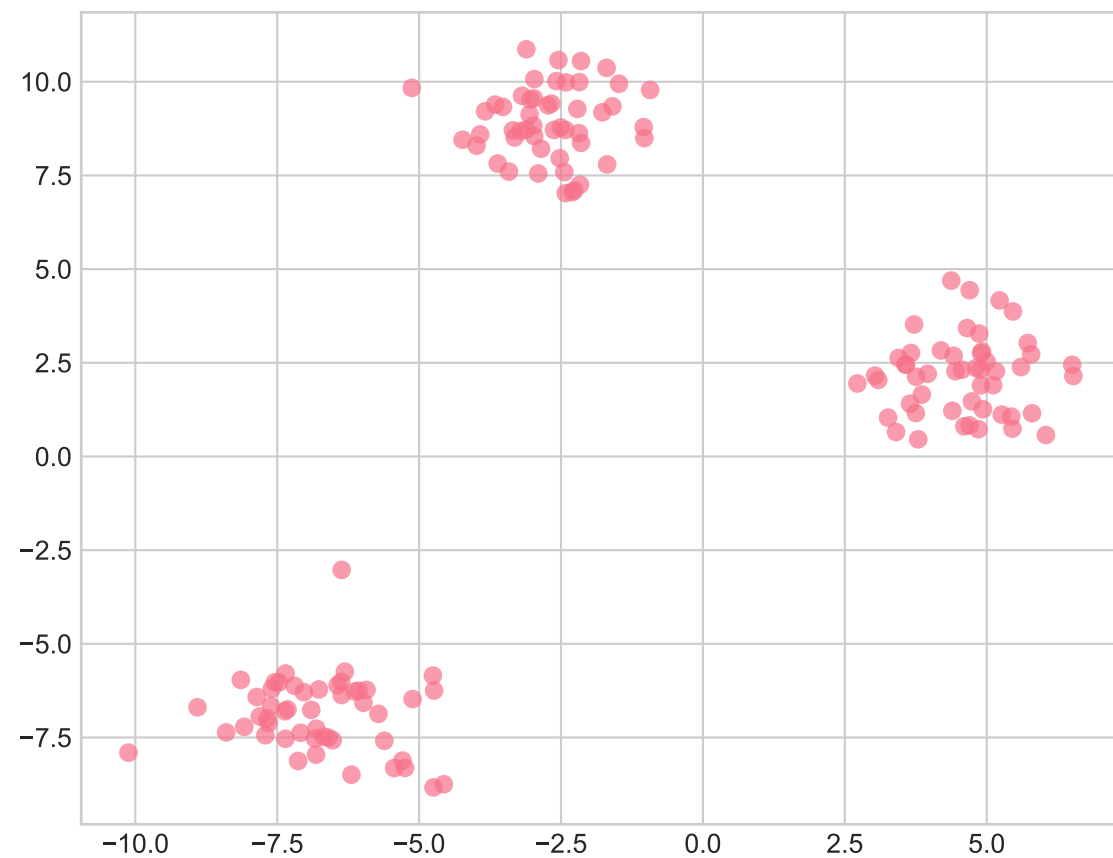
Non-convex Shapes
Best: DBSCAN
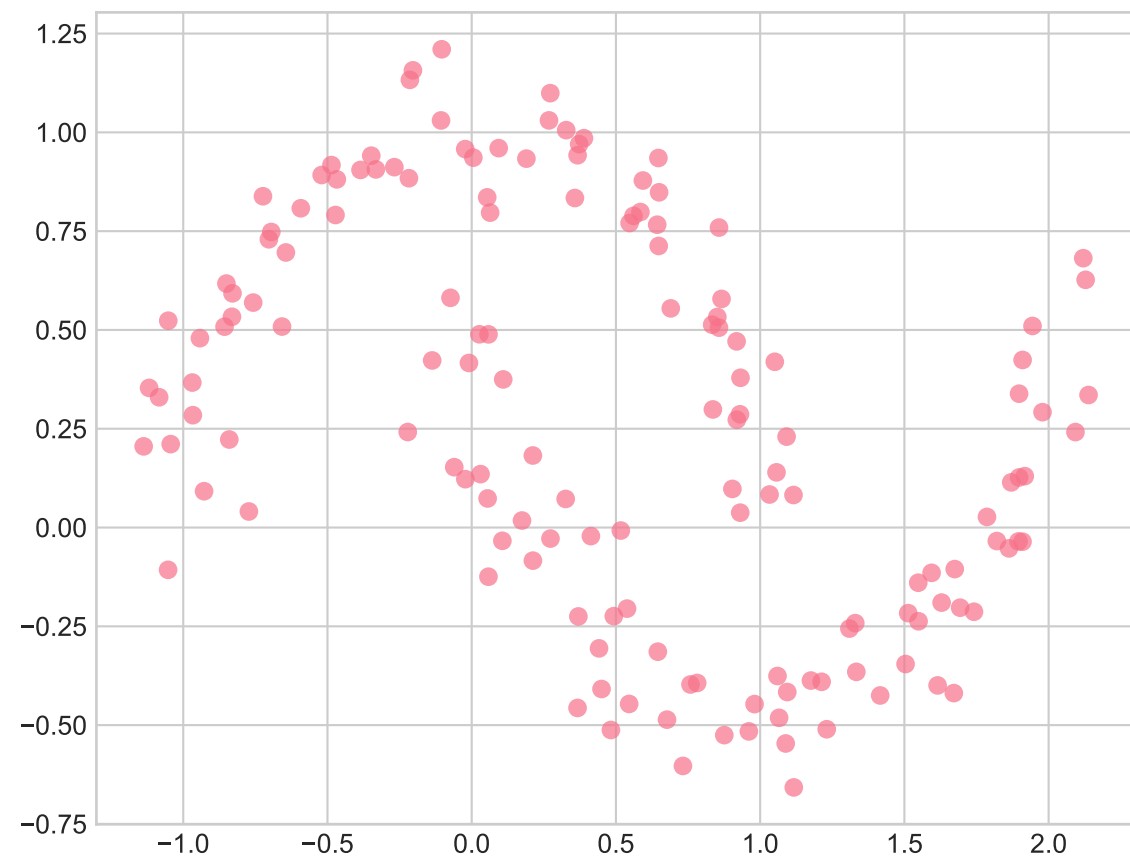
Nested Structures
Best: Spectral
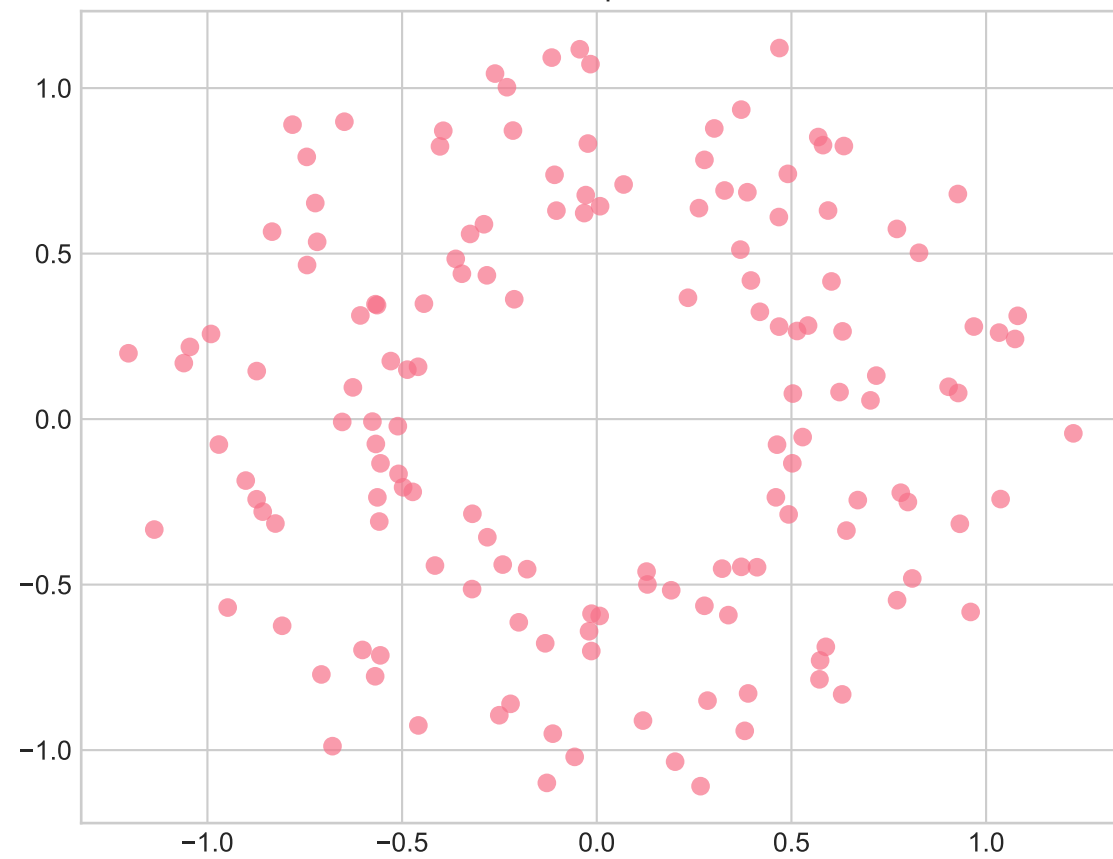
Hierarchical Structure
Best: Agglomerative