$\boxed{\text{Cost}}$

$\boxed{\text{Silhouette coefficient}}$

- Measures compactness, separation

- Large for well-separated compact clusters

- Small for large, overlapping clusters

- Dissimilarity: we can use distance.

- Average dissimilarity of d_i to cluster k_j is average of distances from d_i to all the points in k_j.

- $\overline{s_i}$ for a cluster measures cluster fit

- $\overline{s_i}$ overall measures general fit