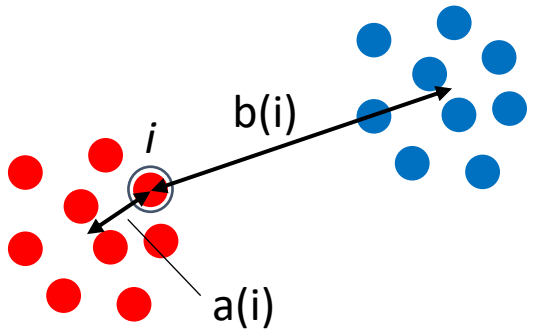
Silhouette coefficient of a sample i

$$sil(i) = \frac{b(i) - a(i)}{\max(a(i), b(i))}$$ ranges from -1 to +1

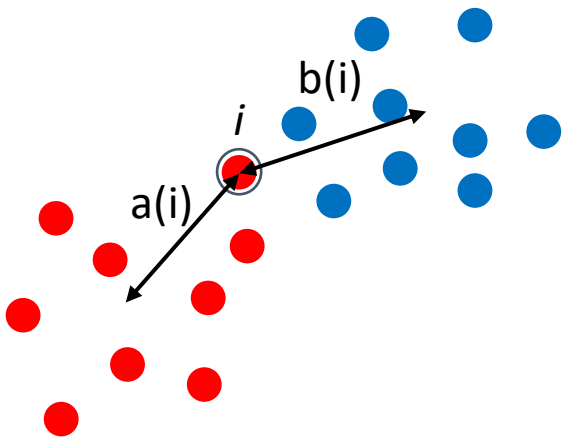
Where:

$a(i)$ is the average distance of i to a point of the **same** cluster
$b(i)$ is the average distance of i to a point of the **nearest** (different) cluster

$sil(i) > 0$



$sil(i)$ close to 0



$sil(i) < 0$