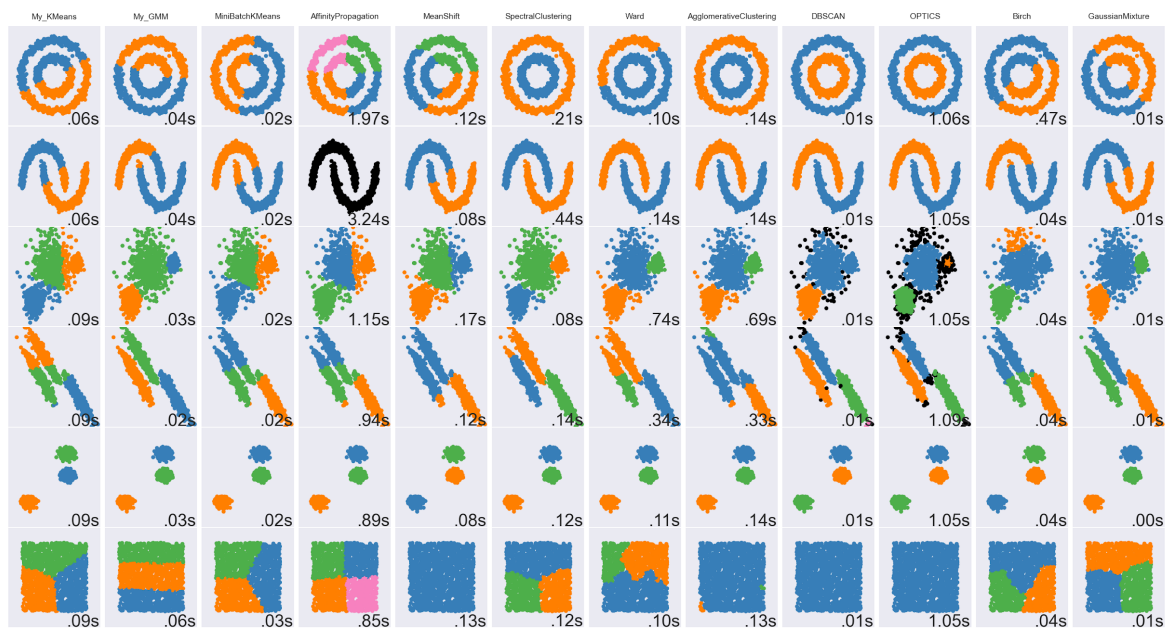


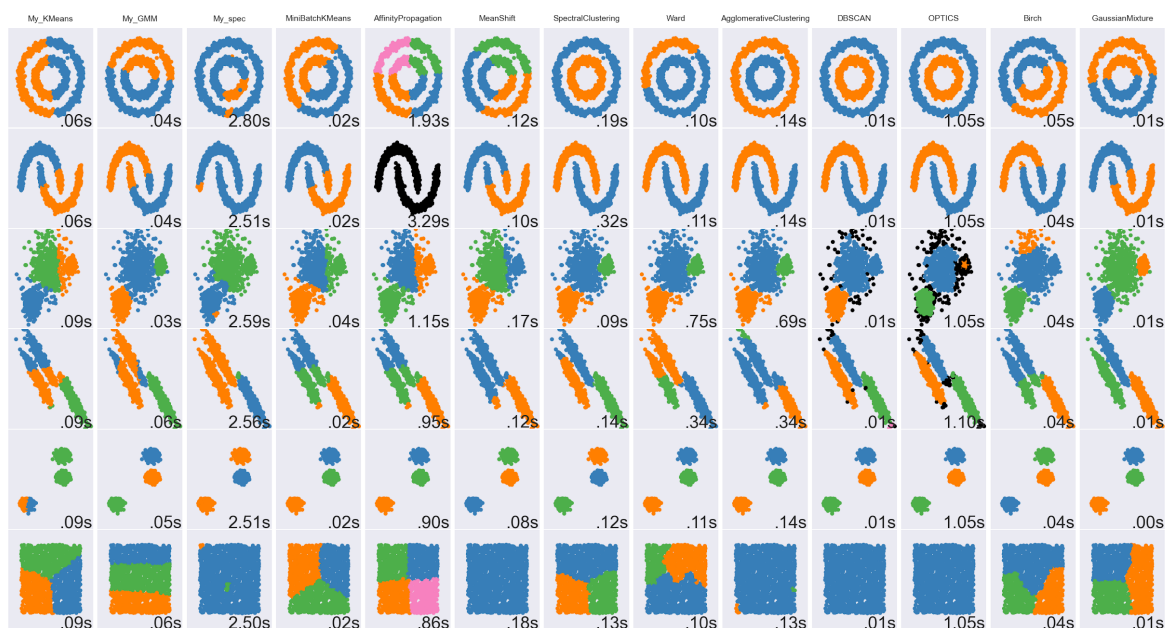
## My\_KMeans, My\_GMM



## My\_KMeans, My-GMM, My\_spec (spectral clustering)

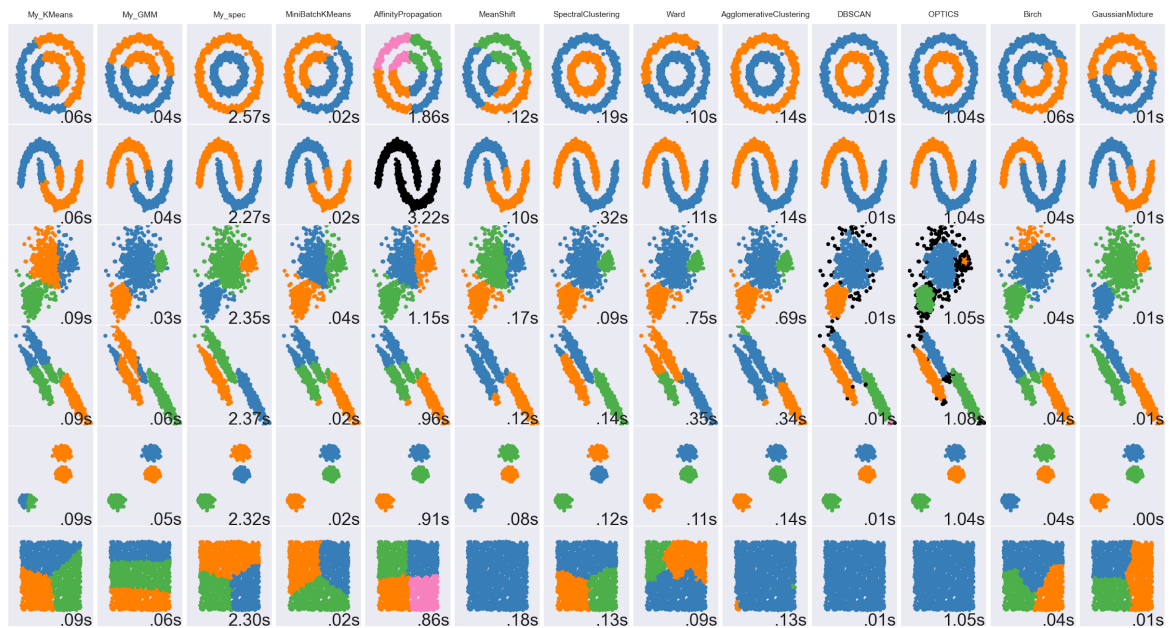
My\_spec used k-neighborhood graph. KNN search. k is set to 3.  
 Build an edge if  $v_i$  is one of the knn of  $v_j$  OR  $v_j$  is one of the knn of  $v_i$ .

Normalized graph Laplacian matrix  $L_{rw}$



## My\_KMeans, My-GMM, My\_spec (spectral clustering)

The settings were exactly the same as above except  $k = 7$ .



column 3 shows a better cluster result.