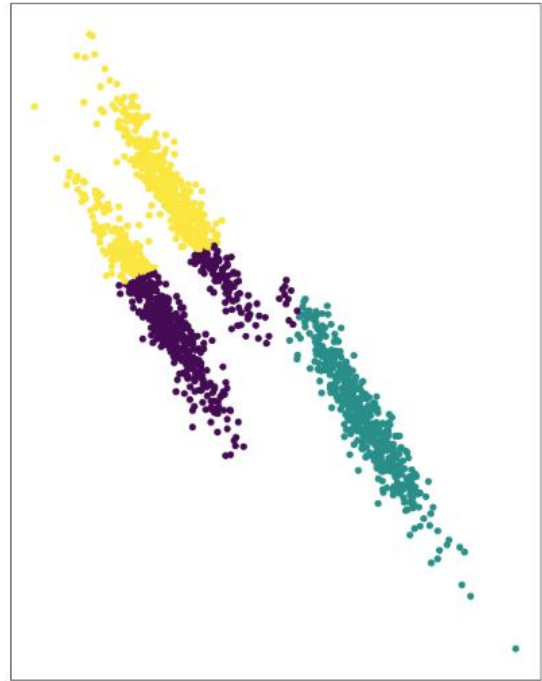
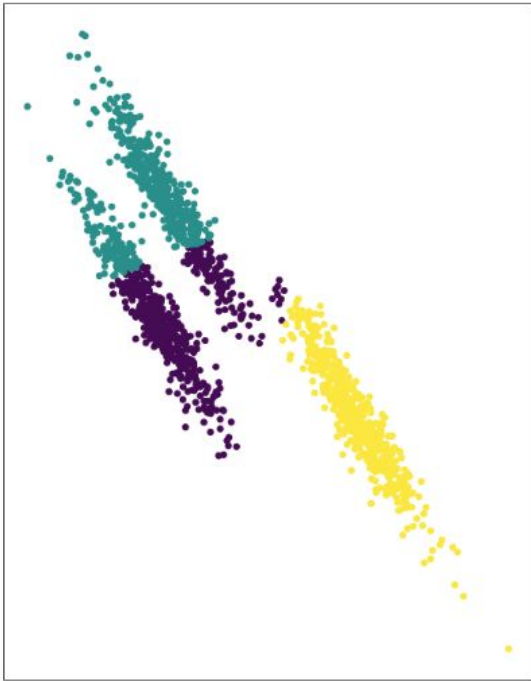


Exercise 8

Sindre Eik de Lange

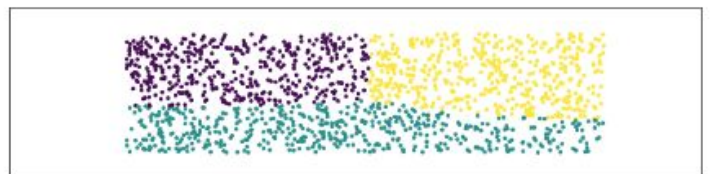
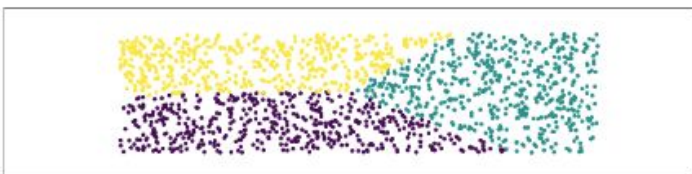


1.3 Random Initialization

I would assume it could work to use random initialization of the centroids, because as stated in a previous task, the algorithms are able to converge towards to a minimum. However, it is also stated that this is a local minimum, which is why one would want to initialize the centroids in such a way that one optimizes the chances of converging towards the global minimum, or at least something close to it.

KMeans vs. Gaussian Mixture

KMeans works better when there are scarce resources, and one has high dimensional (linear) data, while Gaussian Mixture works better when one has low dimensional (non-linear) data, and one does not necessarily care about the shape of the clusters.



Hierarchical Clustering

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1034344
2303233
5430122
4321022
5432201
5432210

