K-Heans Clyskring (Sa, k-Hears works in We can vaualize this by drawing 01409 nal 1:24 2 Steps: Lcts apply K-Heans · ASSIGN algorith to find though ·OPTIMIZE cluster centers: Lets stark 1. Assign. CENTER 1 laths example, We can See two clusters to Yed crosses. And Now he shall assign thase Cluster contres can caso be visualized points to the clusters. (gree cross). In K-Heavs! Me have owin assign chuster conters. Obviously, those two Chuster (enters are not) COLLECT. INE can see that those 4 circuld x are closer to center 1 than center.

Next Strp is Optimization We shall repeat the process. O Assign, for clusters After moving cluster I Optimozation is done by Similarly, for Usera minimizing the total quadratic dist of a cluster Center to the points. for cluster 2 as well DO ME DEED MAYE DU! cluster centers He can see that this point SO, We have iteratively designed M'AIM12es and ophimized to get The the total varic correct cluster Cénters as lergth expected. This is called K-Hears clustering algorithm