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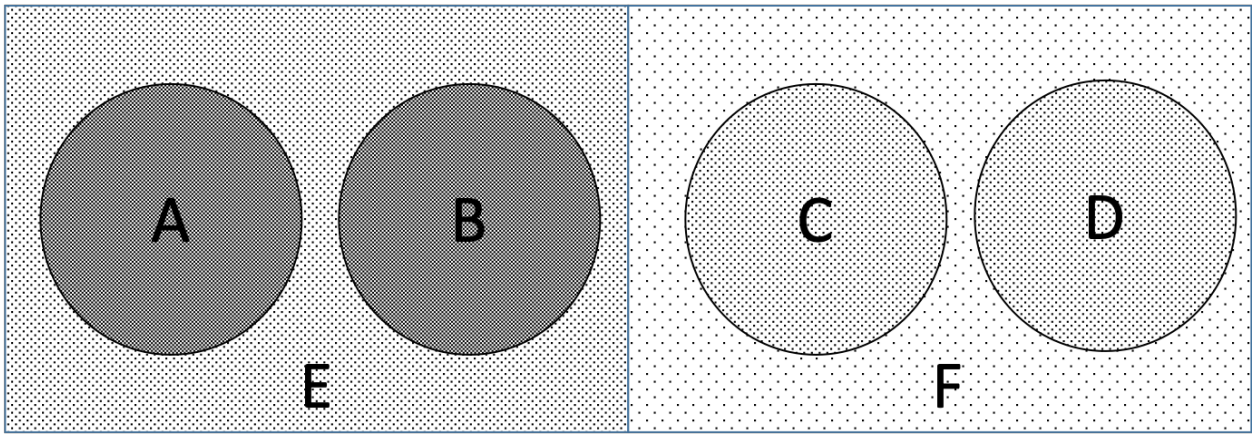
**DBSCAN with areas of varying densities**

The following image represents a single dataset. The dots represent datapoints, so the darkness of the area indicates the density of the points (the more dense the region is with data points, the darker the color.)

Area E (the area around A and B) has the same density as areas C and D.




1. Assuming some Eps, which would require a higher value for MinPts: Identifying A&B as clusters, or identifying C&D as clusters?

   A&B would require a higher value for MinPts.

2. Using an Eps and MinPts that identifies C and D as clusters, what areas would be identified as noise? And how many total clusters would be found?

   The area F would be identified as noise and two clusters would be found.

3. Using an Eps and MinPts that identifies A and B as clusters, what areas would be identified as noise? And how many total clusters would be found?

   The area E would be identified as noise and two clusters would be found.