

TP 3 : Classification with K-Means and EM

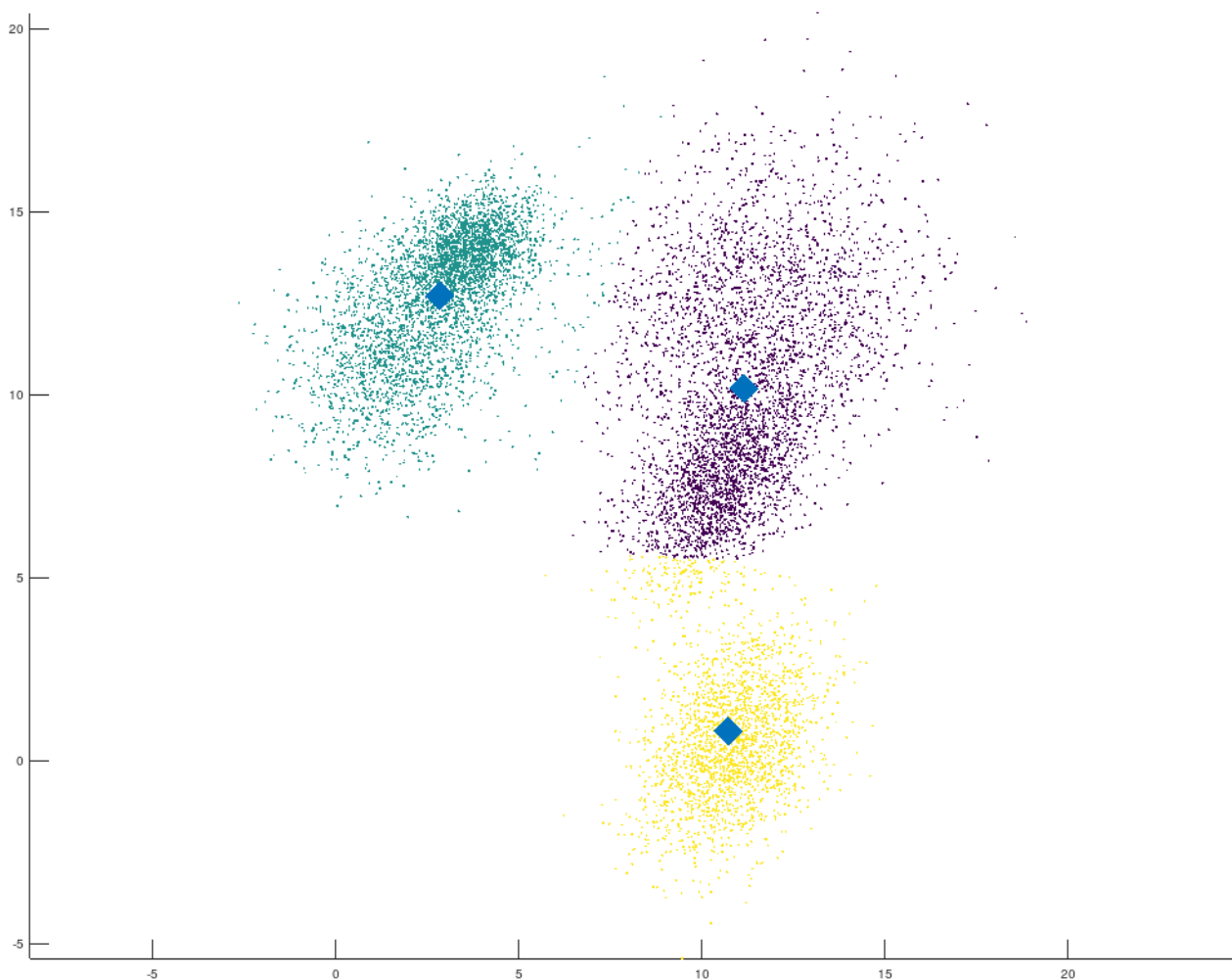
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You can find my source code [here on my repository](#).

K-means

You can find the implementation at `octave/tp3_kmeans.m`.

With 2D points and 3 classes, we get this results in about 10 sec :



Kmeans stops when from one iteration to the next, no points are moved from one cluster to another.

Expectation-Maximization

You can find the implementation at `octave/tp3_EM.m`.

I haven't finished the implementation, the algorithm is here, but there's still some bugs, but it's still runnable. The probabilities for each points are almost the same.