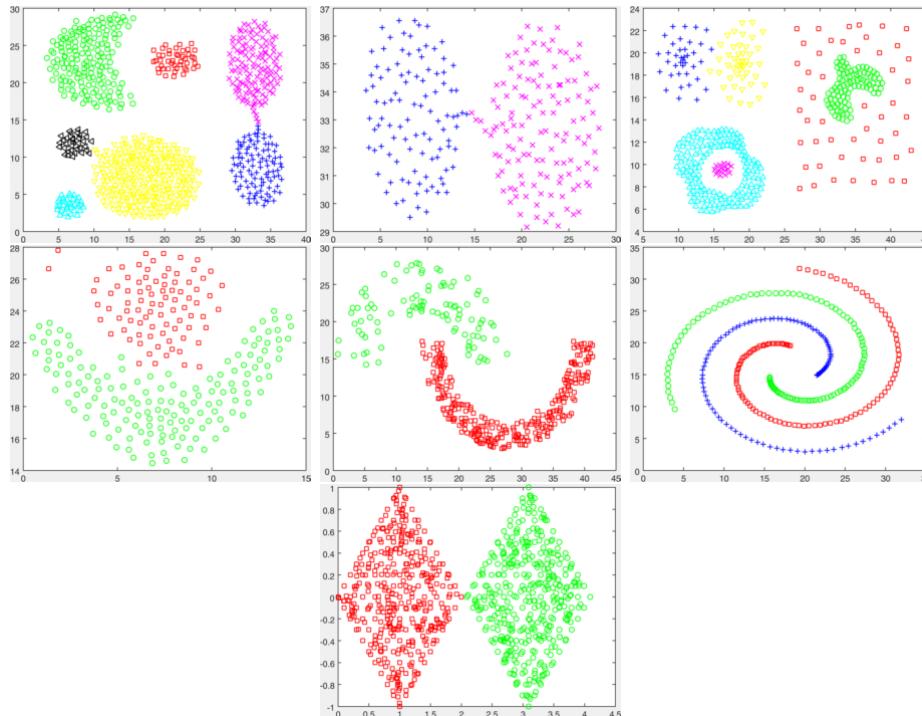# 11-755: MLSP
HW #3: Clustering and EM

Nikolas Wolfe

December 15, 2015

Problem 1: K-Means & Spectral Clustering

You are given a number of toy datasets. The visulized groud truth clustering configuration of these data: Aggregation (K=7), Bridge (K=2), Compound (K=6), Flame (K=2), Jain (K=2), Spiral (K=3) and TwoDiamond (K=2) are shown as follows:

Answer: I implemented this code in Java, using the Efficient Java Matrix Library (EJML) package to do matrix multiplication and Eigen/Singular Value decomposition.

Problem 2: Expectation Maximization