# Classification with K-Means and EM

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Data for this assignment is available here : `https://perso.liris.cnrs.fr/julie.digne/cours/classif_data.zip`.

# 1 K-means

1. Implement the K-means algorithms on the 2D point set
2. Modify the algorithm so that it works on color images (pick your favorite image). Pixels are classified based on their colors.

# 2 EM algorithm (Expectation-Maximization)

1. Implement algorithm EM for the 2D data
2. Modify the algorithm so that it works on color images (pick your favorite image). Pixels are classified based on their colors.