Lab Clustering n°2

Lets compare algorithms

Generating data

1. Generate a dataset using the **make_circles** function from the **sklearn.datasets** module.

2. Visualize the dataset shape using scatter.

3. Normalize the dataset.

Clustering

1. Use the following algorithms to cluster the dataset using the correspondent parameters:

    a. Mini Batch Kmeans (number of clusters 2)
    b. Mean Shift (number of clusters 2)
    c. Spectral Clustering (number of clusters 2 & affinity : nearest neighbor)
    d. Gaussian clustering (number of clusters 2)

    The **sklearn.cluster** and **sklearn.mixture** have these clustering algorithm already implemented.

2. Visualize each result.

Different data shapes

1. Repeat all these steps by changing the dataset shape to the following ones:

    a. Noisy moons
    b. Blobs