Steps:

1. EEG signals cleanup:

Run EEG\_script\_Cleanup.m to get clean data.

Used functions:

* find\_subject\_names.m
* make\_dir\_tree.m
* Clean\_Stims.m
* eeg\_cleanup.m
* BPF.mat
* calculate\_covs.m
* covs\_of\_stims.m
* cov\_of\_rows.m
* Clear\_Electrodes.m
* Classify\_Electrodes.m

1. EEG signals processing:

Run EEG\_script\_diff\_map.m on your clean signals to get PCA and Diffusion maps analysis.

Used functions:

* find\_stims.m
* find\_subject\_names.m
* PCA\_map.m
* Diff\_map.m
* cov2vec.m
* CovsToVecs.m
* RiemannianMean.m
* TSNE\_map.m ?

1. EEG SVM algorithm:  
   Run EEG\_script\_SVM.m on the data you got from EEG\_script\_diff\_map.m

Note: in order for the algorithm to succeed, it needs to get at least 2 healthy and 2 sick objects, and at least 2 stimulations.

Used functions: