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To run the Block-Sparse Subspace Classification algorithm,

1 - Download the cropped face images from the Extended Yale B face dataset at <http://vision.ucsd.edu/~leekc/ExtYaleDatabase/ExtYaleB.html>

2 - Make a matrix YaleBCrop.mat of size 192x168x64x38 where each 192x168 is the j-th face image of the i-th subject.

3 - Install the CVX package (<http://cvxr.com/cvx/>) in Matlab

4 - The codes that you need to run start with "run_"

"run_FaceRecogYaleB.m": classifying uncorrupted images

"run_FaceRecogYaleB_Corrupted": classifying images with random corruptions

"run_FaceRecogYaleB_Occlusion": classifying images with random block occlusions

"run_FaceRecogAR_Disguise": classifying images with scarves and sunglasses (for this you need to download AR face dataset)

Terms of use:

The code is provided for research purposes only and without any warranty. Any commercial use is prohibited.

> When using the code in your research work, you should cite the following paper:

Robust Classification using Structured Sparse Representation,

E. Elhamifar and R. Vidal,

IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2011.

> For reference to the theoretical results, cite the following paper:

Block-Sparse Recovery via Convex Optimization,

E. Elhamifar and R. Vidal,

IEEE Transactions on Signal Processing, 2012.

Please contact Ehsan Elhamifar (ehsan [At] cis [Dot] jhu [Dot] edu) for questions about the code.