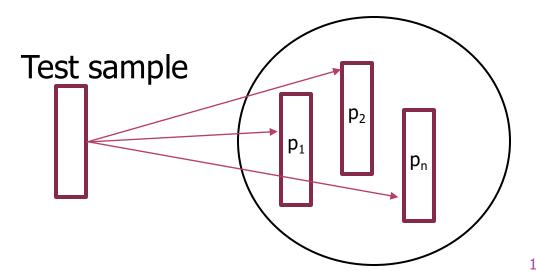
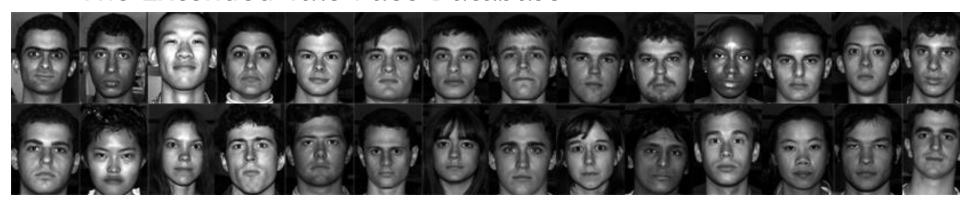
MACHINE LEARNING ASSIGNMENT #1

- Nearest Neighbor Search
 - For the test sample, find the nearest sample in the training set.
 - The nearest neighbor can be found using
 - SAD sum of absolute distance
 - SSD sum of square distance
 - Assign the label of the NN to the test sample



FACE RECOGNITION

The Extended Yale Face Database



- All the images can be downloaded at:
 - Cropped Images (39 persons, 65 images each person)
 - http://vision.ucsd.edu/extyaleb/CroppedYaleBZip/CroppedYal

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e.zıp	\mu yaleB01	檔案資料夾				2005/3/21 下午 07:13
	yaleB02	檔案資料夾				2005/3/21 下午 07:10
	📗 yaleB03	檔案資料夾				2005/3/21 下午 07:10
	📗 yaleB04	檔案資料夾				2005/3/21 下午 07:10
	📗 yaleB05	檔案資料夾				2005/3/21 下午 07:10
	📗 yaleB06	檔案資料夾				2005/3/21 下午 07:10
	📗 yaleB07	檔案資料夾				2005/3/21 下午 07:10
	📗 yaleB08	檔案資料夾				2005/3/21 下午 07:11
	📗 yaleB09	檔案資料夾				2005/3/21 下午 07:11
	📗 yaleB10	檔案資料夾				2005/3/21 下午 07:11
	📗 yaleB11	檔案資料夾				2005/3/21 下午 07:11
	📗 yaleB12	檔案資料夾				2005/3/21 下午 07:11

STEPS OF ASSIGNMENT #1

- 1. Read all color images and converted to grayscale images.
 - Image reading example will be provided
- 2. Split the images into training set / test set
 - First 35 images as training, the rest as testing
- 3. Find NN for each test image
- 4. Calculate the accuracy for NN method.
 - Accuracy = #Correct NN Results/ #Total Test Images
- Deadline: 03/15 11:59p.m