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Journal Report 3

This week I worked on face recognition and displaying image. I first used pillow to display it. I had to change opencv bgr to rgb. As I worked more on my project, I realized dlib, the library for facial key point tracking can display image successfully too.

I also finished my face detection with opencv. It uses haar cascade. Initially, it didn’t work because it couldn’t find the xml file. I realized I had to download it and put it into directory. It worked after this debugging process. It draws out all the possible faces. The biggest one in first row of vector because haar cascade uses scale factor to go down. I was able to display an image with bounding box. I started to work on dlib key point detection. The plan is to get it out Thursday.

<https://docs.opencv.org/3.3.0/d7/d8b/tutorial_py_face_detection.html> This is the tutorial I followed to create the bounding box. The tutorial was done for both face and eye detection. I modified the code to make it only do face detection.

<https://github.com/opencv/opencv/blob/master/data/haarcascades/haarcascade_frontalface_default.xml> This is the link to the xml I used. Initially, I thought the xml file was came with opencv, but I downloaded it off of github. I believe this file contains the weights for classifier.

The following is a example of the output.

