Journal Report 2

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9/13/18

I worked on actually building opencv code this week. I first tried to use some of the basic functions in python opencv. However, the most basic displaying image doesn’t work. After some investigation, it has to do with some Qt related issue for the system according to the github issue and the creator for python opencv. Since the issue is with display not the library itself, after asking for advice from my friend, I decided to just save the file instead of displaying it in window. Using another library to display image will probably work, but I just don’t feel like displaying image an import issue right now. It’s acceptable to me because my project doesn’t really require a live interface. While testing, I will probably just use command line output to indicate the current gesture. I also resize the image to lower resolution because my phone was too high pixel, because high resolution is not optimal for efficiency and not important for accuracy.

Then, I started working on dlib facial landmark detection. Most people used a bounding box for face with landmark detection because it makes landmark detection more accurate and fast. Haar cascade is a method in opencv that does the job. I aim to not only write down the code, but also understand the code to optimize. After Haar cascade, I will display image with dlib’s facial keypoint tracking.

My next observable technical benchmark will be September 20 when I display some images with bounding box. My project’s GUI wouldn’t be a huge concern. If I were to make a GUI, it will just be a file selector. I will do it after facial keypoint tracking is done. I will finish GUI on October 16.