

## Daily Log

### Monday December 9

I categorized all the body and hand angles that we will be calculating. I also made a lookup tables with the indices of the angles.

### Tuesday December 10

I reorganized the list from `[x1, y1, c1...]` to `[(x1,y1), (x2,y2), ....]` so it would be easier to parse. I set up the for loops for file parsing.

### Thursday December 12

I finished the code that prints the angles into a text file. I generalized the filepaths for the output files.

## Timeline

Date	Goal	Met
12/2	Find and extract Position data from the videos	Yes, I have met this goal
12/9	Create pose using kmeans and begin classifying poses using k-nn	No, but we have all the angle classifying data, we will need to gather more data as well
12/16	Classify pose using k-nn	No, but we have all the angle classifying data, we will need to gather more data as well
1/6	Start on Dynamic Time Warping code and work on classifying a move	
1/13	Finish classifying move	
Winter Goal	Have data for classification algorithm and be able to classify a post	

## Reflection

Organization was probably the most difficult part of this week. I spent a lot of this week simply setting up the foundation. I wanted a way to simply parse through the files.

```
def body_frames(output_folder):
    outpath = "../output/output_angle_calc/{0:}_angles".format(output_folder)
    inpath = "../output/video_output/{0:}_keypoints/{0:}_{1:012d}_keypoints.json"
    i = 0
    output = open(outpath, 'w')
    while(os.path.isfile(inpath.format(output_folder, i))):
        output.write(str(frame_parse(inpath.format(output_folder, i))))
        i += 1
    output.close()
```

The code will format the filenames with the same identifier. (Ex: VID-TEST-CASE-1) Additionally, we will need more test cases to classify moves. I will film and find more videos for training this week. The angles for each frame are stored in a text file.