Journal Report 8

10/15/19-10/24/19

Tiffany Parise

Computer Systems Research Lab

Period 4, White

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Daily Logs**

**Tuesday, October 15:**

Today, I read about using the CMake GUI and realized I was using the wrong directory for the source code, which is why my CMake project wasn’t working before. The source code directory needs to contain OpenCV’s CMakeLists.txt file to be able to configure any dependencies.

**Thursday, October 17:**

I found the proper source code directory and put it in my CMake project. I am now able to configure project entries, which I began doing today. Before, the dependencies I added were labelled as “Ungrouped Entries, but now I can link them to paths and folders.

**Monday, October 21:**

I continued adding dependencies to my CMake project. I finished adding the basic setting variables, like what version of Windows to use and the location to install the new CMake project (which is separate from the location of the source code).

**Tuesday, October 22:**

I found a photo showing all the dependencies I need to install to use YOLO, and I’ve been using this as a guide to add these dependencies to my CMake project. This includes dependencies such as CUDNN and OpenCV. This required me to update my version of some of the dependencies.

.

**Thursday, October 24:**

I am trying to install darknet as a dependency. Unlike the other dependencies, darknet is not a well-known program that I download onto my computer and link to the CMake project with its file directory. In the example I’m following, darknet was added from a file called “3rdparty/pthreads”. I believe this comes from POSIX Threads, so I downloaded this and am currently trying to add it to my CMake project to determine if it’s the right thing and how it relates to darknet.

**Timeline:**

|  |  |  |
| --- | --- | --- |
| Week | Goal | Met? |
| 9/30-10/3 | 1. Install CMake  2.Create first 2 YOLO configuration files | Yes |
| 10/7-10/10 | 1.Get CMake to properly configure files  2.Begin installing YOLO dependencies in CMake | Yes (finished in the following week) |
| 10/15-10/17 | 1.Get CMake to properly configure files  2.Begin installing YOLO dependencies in CMake | Yes |
| 10/21-10/25 | Finish installing YOLO dependencies and darknet in CMake | Very close - have installed everything except darknet |
| 10/28-10/31 | 1.Finish installing darknet in CMake  2.Create 3rd YOLO configuration file  3.Begin writing training program | No |
| 11/6-11/7 | 1.Continue writing training program  2..Determine correct number of iterations to prevent overfitting | No |

**Reflection:**

Since the last journal, I’ve made a lot of progress on installing all the dependencies in CMake. I have almost all of them installed, and I think I’m close to installing pThreads for darknet. Next week, I want to do more research into pThreads and how it relates to darknet. After this, I think I have a good idea of how to make the training program and finish installing all the YOLO configuration files.