ToDo List before starting *raw* data capture:

* Make sure lifecam is running on all PCs
* Make sure Netclient is running
* Make sure FaceLab is logging to network

High-Precision Data Capture

The Goal:

Determine how accurate vergence data can be while looking at a specific point on another subject’s face. Additionally, the Microsoft LifeCam at each computer will be will be recording data at 720p, approx. 30 FPS for later analysis (with each subject’s permission, of course.) This is in order to attempt to discern issues in data quality from the subject simply being unable to properly focus on another subject’s eye.

Prompt:

“When I say Start, each person should look at the right eye of the person across from them. Attempt to keep your head steady and continue to stare at that person’s right eye until I say Stop. Expect to hold this position for about 15 seconds. Try not to blink during that time.“

\* Start \*

\* 15 seconds \*

\* End \*

“We’ll repeat what we just did, but this time instead of looking at the other person’s right eye, you’ll be looking at their left eye.”

\* Start \*

\* 15 seconds \*

\* End \*

General-Precision Data Capture

The Goal:

To get metrics regarding head orientation data quality and what sort of inaccuracies can arise from changing head orientation. An issue that is expected (but to be tested) is that data quality destabilizes while the head is moving but gradually stabilizes once the head stops moving. The rate of stabilization is to be observed as well.

Prompt:

“For the first part of this test it does not matter where your eyes are looking. Start with your head facing the person opposite to you. Once I say start, I will begin to give the commands of “left”, “right”, and “straight” in order to change the person you are going to be facing. Only the orientation of your head should change; attempt to keep your body in the same position and orientation. You’re free to rotate your head at whatever speed you like. This recording will last approximately one and a half minutes.”

From the start, the instructions:

Straight: 5 seconds

Right: 5 seconds

Straight: 5 seconds

Left: 5 seconds

Right: 5 seconds

Straight: 10 seconds, instructions (“Alright, this is going to get speedy.”)

Right: 2 seconds

Straight: 2 seconds

Left: 2 seconds

Right: 2 seconds

Straight: 2 seconds

Left: 2 seconds

Right: 2 seconds

Straight: 5 seconds

“Now we’ll repeat the test, but this time you are going to be fixating on the nose of the person across from you as you move your head. Additionally, you will not be rotating your head to face the person in that direction as we had done before. Instead, you will only need to rotate your head approximately 20 degrees (this doesn’t need to be exact.) We only go 20 degrees to make sure that both of your eyes are within the frames of the cameras. For example, if you’re facing straight and I say “right”, you’ll fixate your eyes on the nose of the person to the right of you and rotate your head ~20 degrees to the right (this doesn’t need to be exact.)”

(Repeat the orientations from the previous test)

Relaxed Data Capture

The Goal:

To observe data quality when the subjects are placed in a less rigid environment, where their movements and freedom of motion are not dictated or restricted.

Prompt:

“The last part of the testing is just a conversation between all four of you. You’re not asked to restrict your movement; you can look where you want and move your head in whatever way you want during the discussion. However, please remain seated while you are being recorded and, when you can, try to keep your head within the frame of all of the cameras at your station. This recording will last about two minutes.”

\* Start \*

\* Record for approximately 2 minutes \*

\* End \*