Week 1 (August 29-September 7)

Tools used:

Elan (Video annotation application)

PivotHead Camera

Polar Heartbeat sensor

Bluetooth Distance and Accelerometer sensor

Goal:

Objective: In order to collect data from volunteers, we must ensure that data synchronization is as accurate as possible. In order to do so, experimentation must be done to get a feel for how “inaccurate” it can get trying to align video with heartbeat / other signals. For this week, experimentation will be done on trying to synchronize heartbeat and video signals and accelerometer and video signals.

* PivoetHead:
  + How to Record
  + How to import video into Elan
  + Ensure proper migration of data
* Come up with alternative solutions to synchronizing data
  + Video - capture recording devices that keep track of Unix TimeStamp and have user input Unix into Python script
  + Record an on-going Unix tracker (on the web) and offset Video time with user input
* How to use Polar Heartbeat sensor
  + How to combine the data

Results: