**In this file we are documenting our approach to handle/use data:**

For this project we are planning to use GazeCapture Dataset. In this dataset there are almost 1474 unique subjects. For each subject there is a directory with a serial number. In each directory there are about 99 frames (in the directory named frames). Apart from this, there are also other JSON files which have the metadata of different elements of the data.

There are almost 2,445,504 total frames and 1,490,959 frames were clear with face and eyes detected properly. In the remaining frames face or eyes werenot detected properly. For this reason, some frames will be "missing" generated data.

As the given dataset is almost 140GB in size, the computational power we have will not be sufficient to process the data and train the model on this huge dataset.

**Approach1:** portrait and valid images only

So, we are planning to cut down the size of the dataset using any factors. So, we have tried to filter the images which are only in portrait mode, separate them into train, test, validation sets for further use. But even when trying to do this, our laptop storage limit was exceeded as the output of this data was also almost 40GB.

The Output folder is generated from the images which are only in portrait mode. The information regarding if the image is portrait or not is present in the **screen.json** file with the attribute **orientation**.The orientation attribute has value 1 if the image is portrait. So, for each image we frame we only considered the images which are portrait. But, with the limited computational power, it is also tough to train 40GB of data, so were planning to come up with approaches which can cut down the size of data.