

All the files of the following list have to be executed from the folder '/data/incia/Data/Datasets/GITW'.

- **annotation_center_coord.py** : Open each 'normalisation.jpg' image of the corpus so that the user click on the center of the object. The coordinates of the object are then saved in the file 'center_coord.py'
- **annotation_object_fixated.py** : Open each 'normalisation.jpg' image and another frame of the same video so that the user can enter the name of the object. The results are saved in the file 'annotation_object.txt'
- **compute_homographies_and_project.py** : Generates for each two consecutive frames of the annotated segment, the file 'homographies_mid.txt' containing the successive homographies, the file 'coordinates_mid.txt' containing the projected coordinates (on the middle frame), and one image 'normalisation.jpg' which is the middle frame with points representing the projected fixations (the more the color is yellow and the more the frame is far on the video).
- **compute_homographies.py** : Computes the homographies for each successive frames of the video and save them in the file 'homographies.txt'. In case the homography cannot be computed a line '[]' is written. The number of threads can be set inside the code.
- **kde_2d_weighted.py** : Reimplentation of the gaussian_kde python function (found on a github on the internet) but with the possibility to give weights.
- **max_kde.py** : Compute the kde of the points contained in 'coordinates_mid.txt' and generate the file 'center_kde.txt' containing the coordinates of the center of the weighted kde. The number of threads can be set inside the code.
- **project_center.py** : Generates the four files 'annotationN.txt'. 1 contains the coordinates of the reprojection of the ground truth. 2 contains the coordinates of the reprojection of the center estimated with the kde. 3 contains the real fixation coordinates and their distance with the ground truth. 4 contains the real fixation coordinates and their distance with the center estimated with the kde.