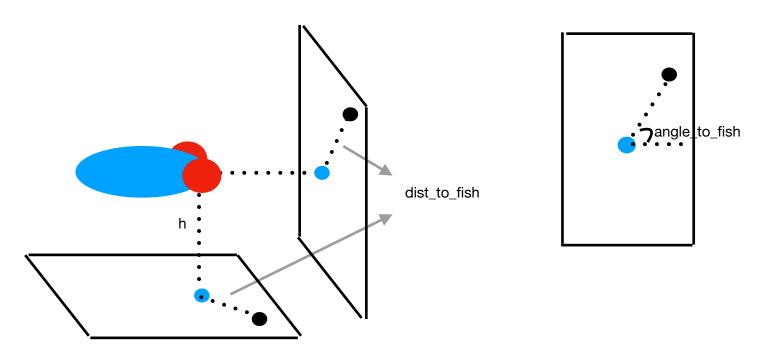
Some notes to use the code

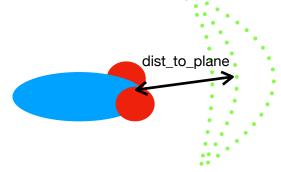
- For move_dot_away function: move_dot_away("horizontal", camera, axes)
- Choose the direction : "horizontal" or "vertical"
- Need to change dist_to_fish to a list of distance from fish to the dot.

```
dist_to_fish = [150, 200, 300, 400, 500, 550] #distance from the first dot to the fish dist_to_plane = 200 #distance from the vertical (spherical) plane to the fish dist_btw_eve = 80 # distance between the two eves
```

- In vertical case and horizontal case: dist_to_fish is the distance below:

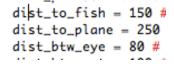


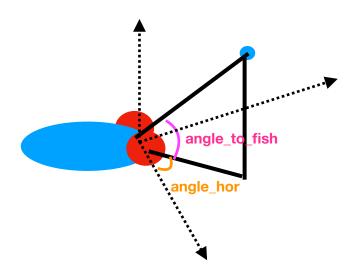
 In spherical case: dist_to_plane is the distance from the fish's center between two eyes to the sphere surround it like below:



 In spherical case we don't consider the dot moves away from the fish but only consider the case the dot moves around the fish.

- For move dot around function:
- move_dot_around_fish("spherical", camera, axes)
- In horizontal and vertical case:
- change dist_to_fish to a constant number
- use a list of different angle_to_fish
- In spherical case:





- Depends on how we want the dot to move, in spherical case, we can keep the angle_to_fish constant and change angle_hor or keep angle_hor constant and change angle_to_fish
- About function to find image's coordinate:

```
find_new_coordinate_list(points, num_points, list_of_input, eye_rad, True)

USE coordinate with the retina's center at the origin or USE the usual xyz coordinate
```

 To try ellipse dot*, we change the values of minor_p and major_p:

```
minor_p = 30 #minor axis of the dot major_p = 60 #major axis of the dot
```

(*for spherical case, there is still only 1 case - a circle dot (in this case, the radius of the dot = major_p)