Combine images

```python
In [5]:  #https://stackoverflow.com/questions/30227466/combine-several-images-horizonta
         lly-with-python

         import sys
         from PIL import Image
         from tqdm import tqdm
         path_road = 'driving_dataset/'
         path_str_angle = 'test_output/'
         path_final_output = 'final_combined_dataset/'

         #using only 100 images for creating the output file as entire output is coming
         out as too large.
         initial_image_index = 31785
         final_image_index = 31900


         for i in tqdm(range(31785,32700)):

             images = [Image.open(x) for x in [path_road + str(i) + '.jpg', path_str_an
         gle + "str_"+str(i) + '.jpg']]
             widths, heights = zip(*(i.size for i in images))

             total_width = sum(widths)
             max_height = max(heights)

             new_im = Image.new('RGB', (total_width, max_height))

             x_offset = 0
             for im in images:
               new_im.paste(im, (x_offset,0))
               x_offset += im.size[0]

             new_im.save(path_final_output + str(i) + '.jpg')
```

Creating Video

In [6]:
```python
#https://stackoverflow.com/questions/47670918/create-video-from-images-sorted-
in-numerical-order-using-ffmpeg
#https://stackoverflow.com/questions/44947505/how-to-make-a-movie-out-of-image
s-in-python
#https://stackoverflow.com/questions/13590976/python-make-a-video-using-severa
l-png-images
import cv2
import os

image_folder = 'final_combined_dataset/'
video_name = 'street_steering.avi'

images = [img for img in os.listdir(image_folder) if img.endswith(".jpg")]
frame = cv2.imread(os.path.join(image_folder, images[0]))
height, width, layers = frame.shape


video = cv2.VideoWriter(video_name, 0, 10, (width,height))

for image in tqdm(images):
    video.write(cv2.imread(os.path.join(image_folder, image)))

cv2.destroyAllWindows()
video.release()
```

```
100%|██████████| 915/915 [00:02<00:00, 403.41it/s]
```