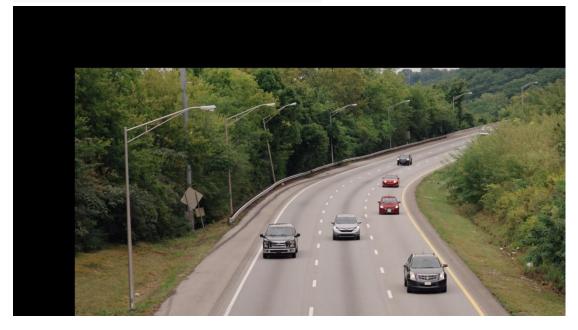
```
import cv2 as cv
import numpy as np

img = cv.imread("image.png")
```

• Translation(平移)



● rotation (旋轉)

```
#rotation
h, w, c = img. shape
R = cv.getRotationMatrix2D((w/2, h/2), 135, 1)
rota = cv.warpAffine(img, R, (w, h))
cv.imwrite("rotation.png", rota)
```

(旋轉 135 度)



• flipping(垂直翻轉)

```
#flipped
flip = cv.flip(img, 0)
cv.imwrite("flip.png", flip)
```



• scaling (縮放)

```
#scaling
h, w, c = img.shape
resize = cv.resize(img, (int(0.3*w), int(0.3*h)), interpolation = cv.INTER_NEAREST)
cv.imwrite("scaling.png", resize)
```

(縮 0.3 倍)



• cropping(裁切)

```
#cropping
#print(img.shape)
crop = img[200:900, 200:900]
cv.imwrite("cropped.png", crop)
```

