Image Stitching

In [ ]:

```
import cv2

#1
src1 = cv2.imread('./data/stitch/stitch_image1.jpg')
src2 = cv2.imread('./data/stitch/stitch_image2.jpg')
src3 = cv2.imread('./data/stitch/stitch_image3.jpg')
src4 = cv2.imread('./data/stitch/stitch_image4.jpg')
stitcher = cv2.Stitcher.create(cv2.Stitcher_PANORAMA)

status, dst2 = stitcher.stitch((src1, src2))
status, dst3 = stitcher.stitch((dst2, src3))
status, dst4 = stitcher.stitch((dst3, src4))

cv2.imshow('src1',  src1)
cv2.imshow('dst2',  dst2)
cv2.imshow('dst3',  dst3)
cv2.imshow('dst4',  dst4)
cv2.waitKey()
cv2.destroyAllWindows()
```

Video Stitching

In [ ]:

```
import cv2

#1
cap = cv2.VideoCapture('./data/stitch/stitch_videoInput.mp4')
t = 0
images = []
STEP = 20

while True:
    t += 1
    retval, frame = cap.read()
    if not retval:
        break
    img = cv2.resize(frame, dsize=(640, 480))
    img = cv2.rotate(img, cv2.ROTATE_90_CLOCKWISE)
    if t%STEP == 0:
        images.append(img)

    cv2.imshow('img',img)
    key = cv2.waitKey(25)
    if key == 27: # Esc
        break

#2
print('len(images)=', len(images))
stitcher = cv2.Stitcher.create(cv2.Stitcher_PANORAMA)
status, dst = stitcher.stitch(images)
if status == cv2.STITCHER_OK:
    cv2.imshow('dst',dst)
    cv2.waitKey()

if cap.isOpened():
    cap.release()
cv2.destroyAllWindows()
```

In [ ]: