task-04-01-book-transform

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Task 4.1 | 65011428 Papinwich Asnapetch

```python
[3]: import cv2
     from matplotlib import pyplot as plt
     import numpy as np
```

```python
[4]: # Task 3.2

     # Load Image
     original_img = cv2.imread('right.jpg')
     original_img = cv2.cvtColor(original_img, cv2.COLOR_BGR2RGB)
     sz = original_img.shape
     img_sz = (sz[1], sz[0])


     # Define points
     originalPoint = np.float32([(315, 337), (360, 109), (531, 138), (454, 424)])
     targetPoint = np.float32([(0, 420), (0, 0), (300, 0), (300, 420)])
     # flip point: [(300, 420), (300, 0), (0, 0), (0, 420)]

     # Get transform matrix
     M = cv2.getPerspectiveTransform(originalPoint, targetPoint)

     # Apply transform
     img_trns = cv2.warpPerspective(original_img, M, (300, 420))


     # Display
     plt.figure(figsize=(10, 5))

     plt.subplot(1, 2, 1)
     plt.imshow(original_img)
     plt.title('Original')

     plt.subplot(1, 2, 2)
     plt.imshow(img_trns)
     plt.title('Transform')
```

```
plt.show()
```

Original

Transform