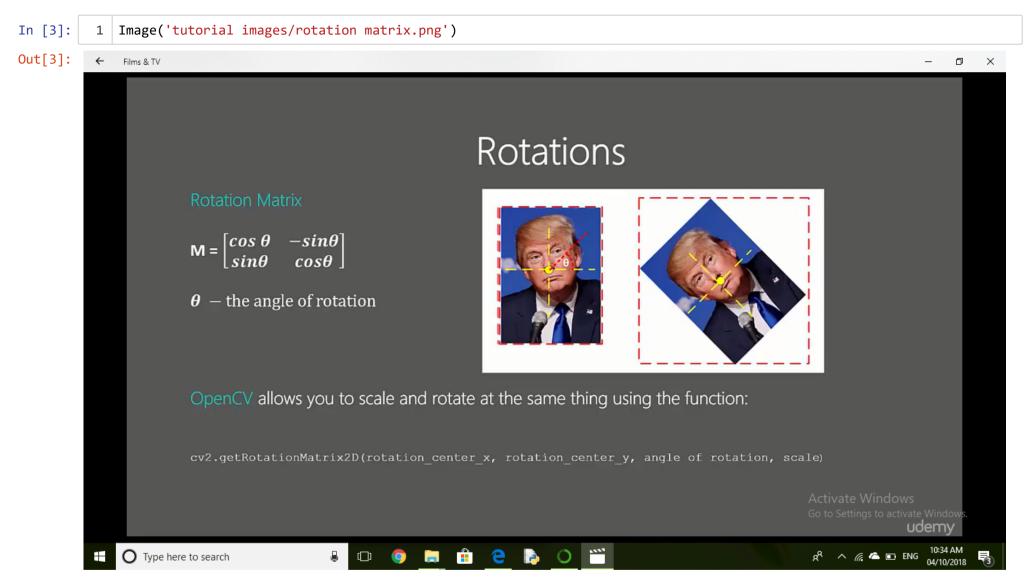
10/4/2018 6 - Rotations

In [1]: 1 import numpy as np, cv2

Rotation Matrix

In [2]: 1 from IPython.display import Image

10/4/2018 6 - Rotations



cv2.getRotationMatrix2D((rotation_center_x, rotation_center_y), angle of rotation, scale)

scale:- meaning ratio of actual and rotated image

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Remember angle of rotation is anticlockwise

```
In [3]:
    import cv2, numpy as np
    image = cv2.imread('my.JPG')
    height, width = image.shape[:2]

# #Divide by two to rotate the image around its center
    # #we assume centre of image is width /2 and height / 2
    rotation_matrix = cv2.getRotationMatrix2D((width / 2, height / 2), 180, 2)
    rotated_image = cv2.warpAffine(image, rotation_matrix, (width, height))
    cv2.imshow('Rotated Image', rotated_image)
    # #cv2.imwrite('Rotated Image.png', rotated_image)
    cv2.waitKey()
    cv2.destroyAllWindows()
```

cv2.transpose(image)

Transpose of image

^^it converts width -> height and height -> width