

## Lecture 6b: Re-sizing, Scaling, and Interpolation

```
In [7]: import cv2
import numpy as np
gmb = cv2.imread('./gambar/Uddin.jpeg')
#gmb = cv2.imread('./gambar/gambar03.jpg')
cv2.imshow('Ini foto saya', gmb)
cv2.waitKey()

# Resize 75%
gmb01 = cv2.resize(gmb, None, fx=0.75, fy=0.75)
cv2.imshow('Ini foto resize 01', gmb01)
cv2.waitKey()

# Resize 200%
gmb02 = cv2.resize(gmb, None, fx=5, fy=5, interpolation = cv2.INTER_CUBIC)
gmb02a = cv2.resize(gmb, None, fx=5, fy=5, interpolation = cv2.INTER_LINEAR)
cv2.imshow('Ini foto resize 500% Cubic', gmb02)
cv2.waitKey()
cv2.imshow('Ini foto resize 500% Linear', gmb02a)
cv2.waitKey()

# Resize at exact dimensions
gmb03 = cv2.resize(gmb, (900,400), interpolation = cv2.INTER_AREA)
cv2.imshow('Ini foto resize 900x400', gmb03)
cv2.waitKey()

cv2.destroyAllWindows()
```

## Resize dengan Pyramids

```
In [2]: import cv2
import numpy as np
#gmb = cv2.imread('./gambar/Uddin.jpeg')
gmb = cv2.imread('./gambar/gambar03.jpg')
cv2.imshow('original', gmb)
cv2.waitKey()

gmb_smaller = cv2.pyrDown(gmb)
gmb_larger = cv2.pyrUp(gmb_smaller)
cv2.imshow('smaller', gmb_smaller)
cv2.imshow('larger', gmb_larger)
cv2.waitKey()
cv2.destroyAllWindows()
```