Automatic Facial Blur

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Process

Step-1: Face Detection

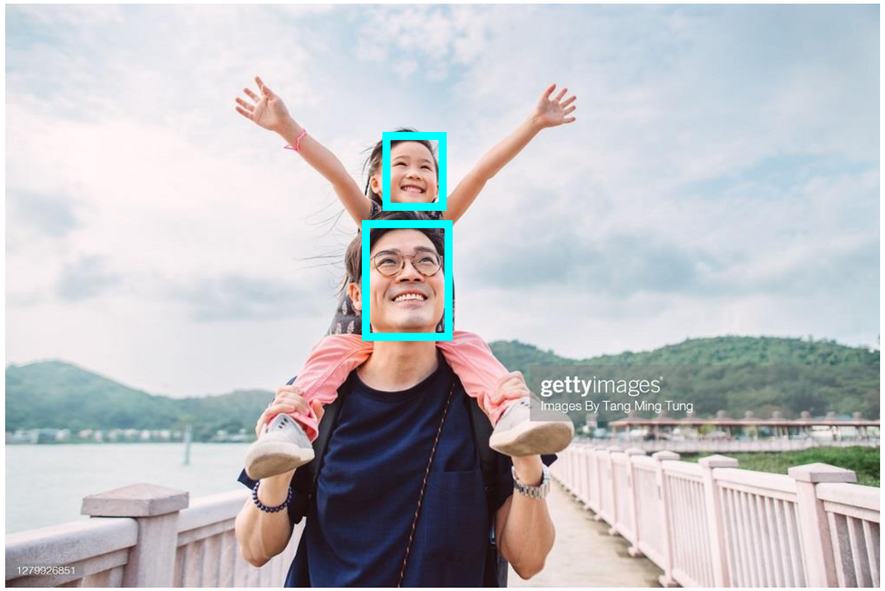
Step-2: Create Mask Image

Step-3: Apply Mask images to original image and get foreground and background image

Step-4: Apply Gaussian blur to background image and get background blur image

Step-5: Add background blur image and foreground image to get face blur image.

Step-1

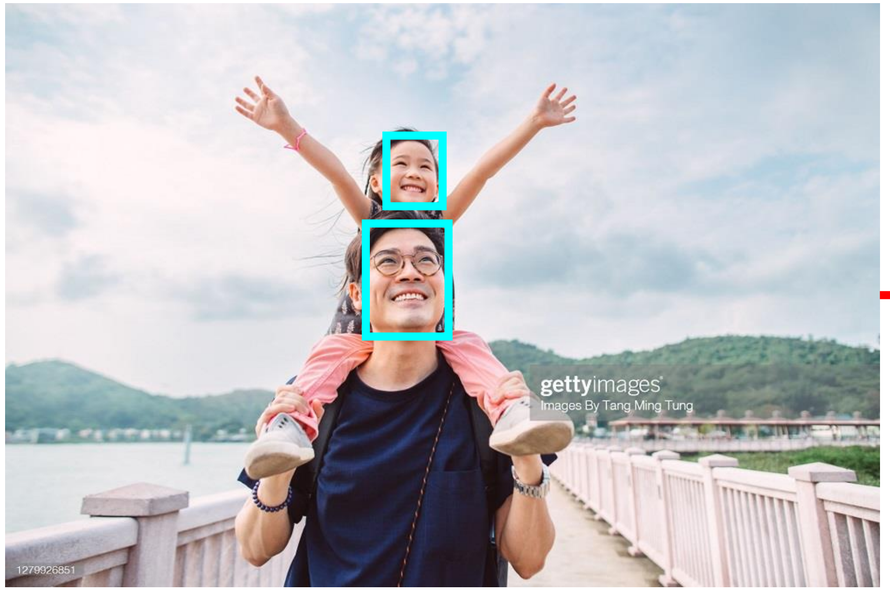


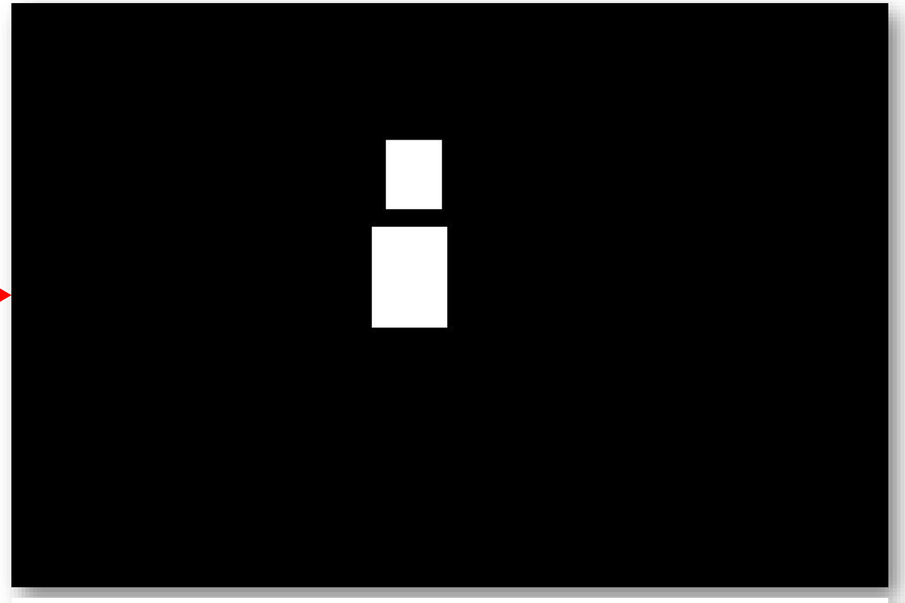
Step-2

Get Mask Image

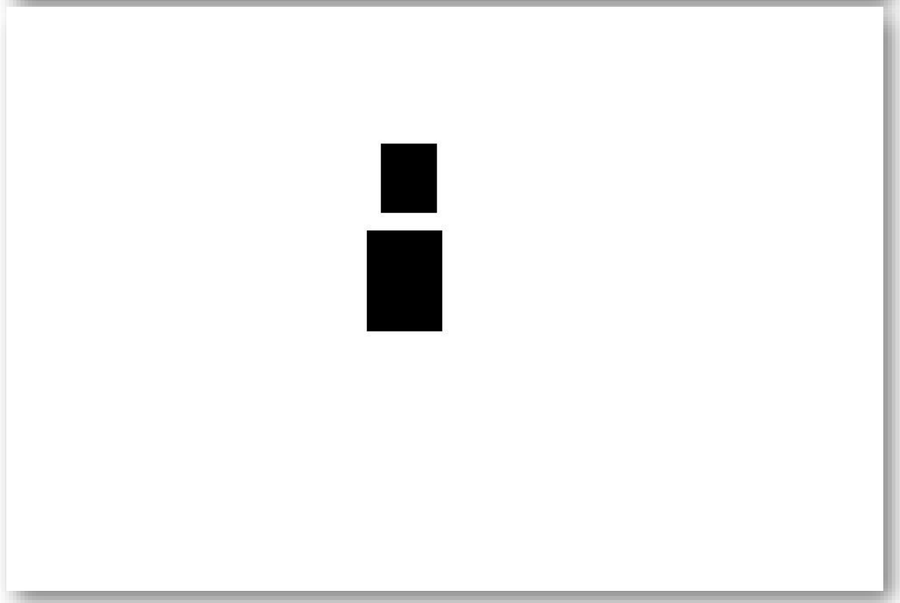
- Inverse Face Mask
  - Black colour in the where faces are detected
  - White colour where faces are not detected
- Face Mask
  - White colour in the where faces are detected
  - Black colour where faces are not detected

Step-2





Face Mask



Inverse Face Mask

Step-3

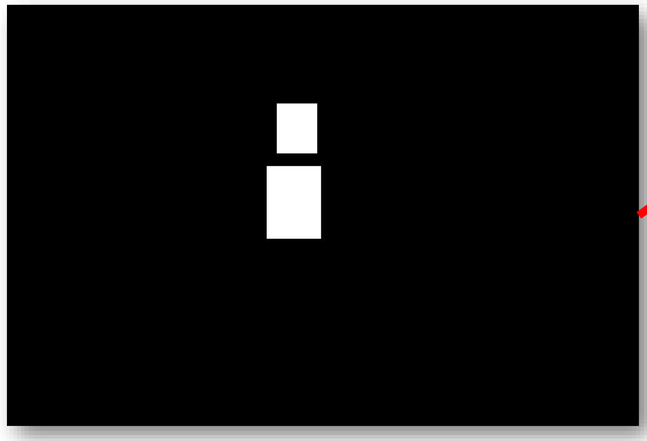
Apply mask image

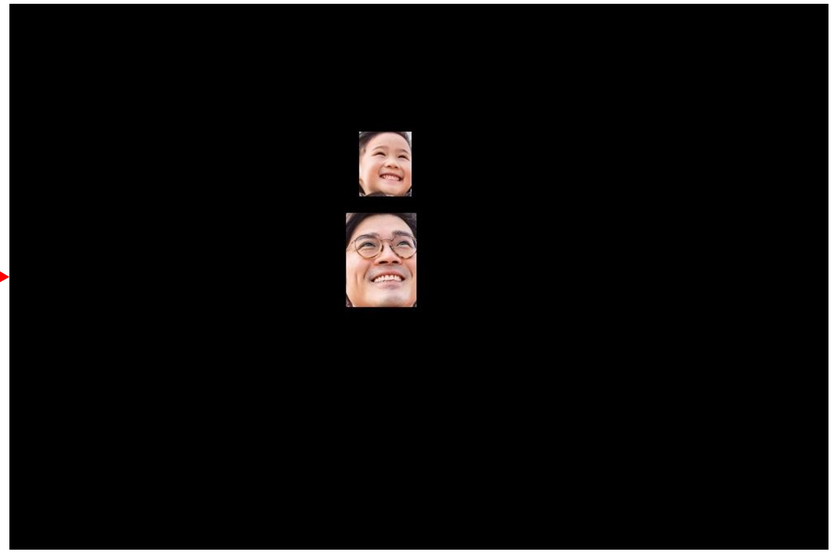
- Background Image
  - Apply “Face Mask” to Original Image

- Foreground Image
  - Apply “Inverse Face Mask” to Original Image

Background Image

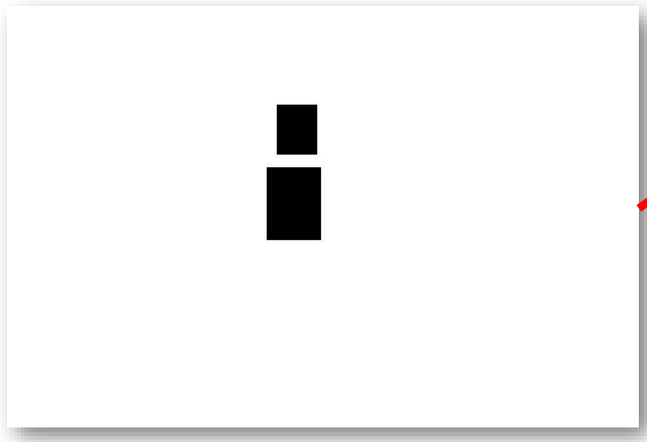
BITWISE AND





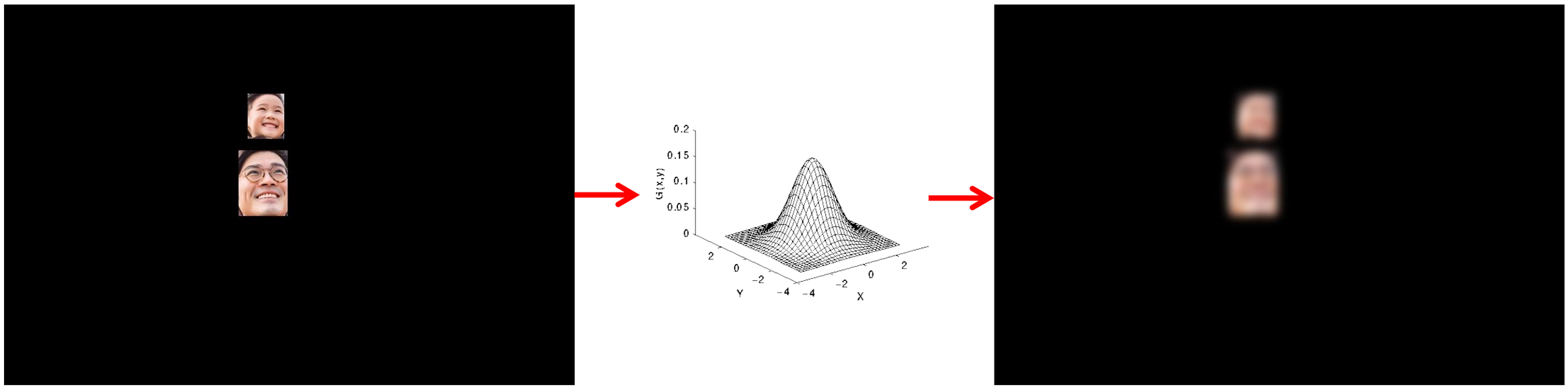
Foreground Image

BITWISE AND



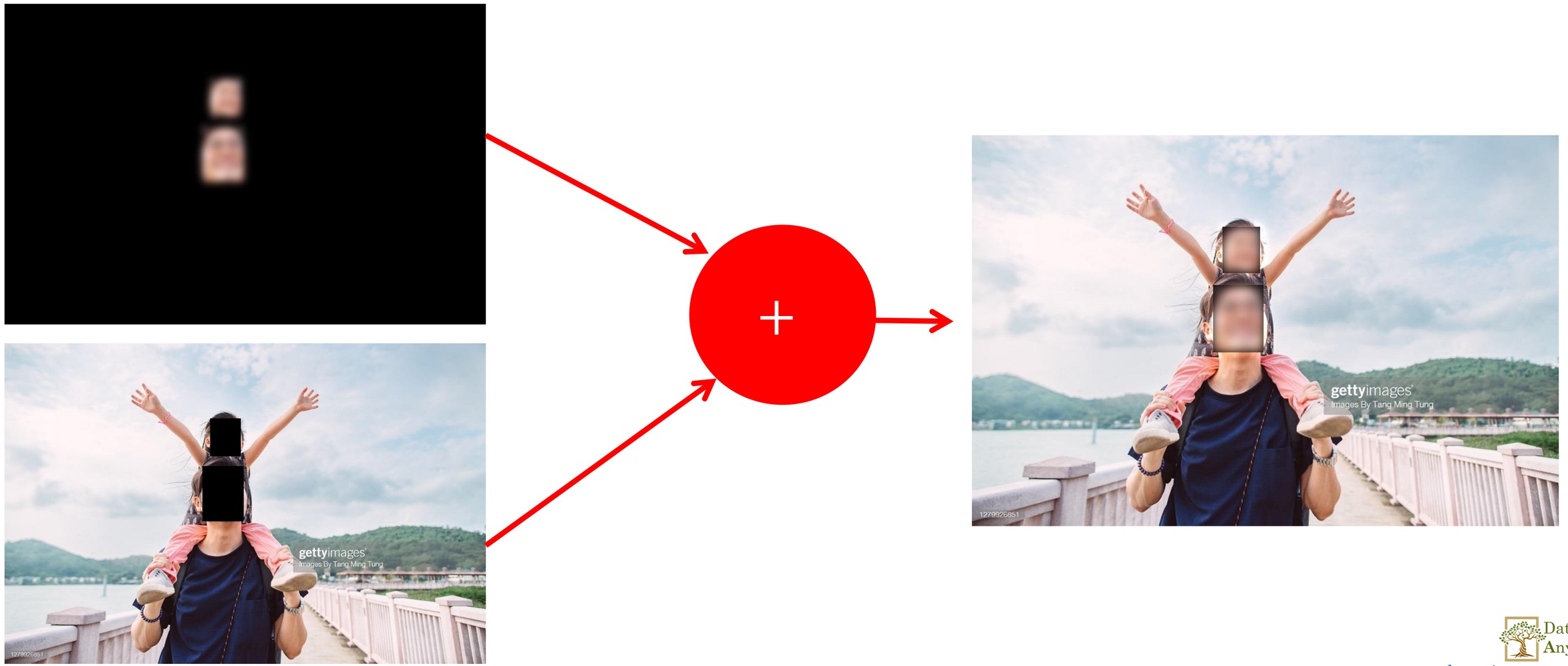
Step-4

Apply Gaussian Blur to “Background Image”



Step-5

Add “Background Blur Image” and “Foreground Image”



Next

Automatic Face Blur Image