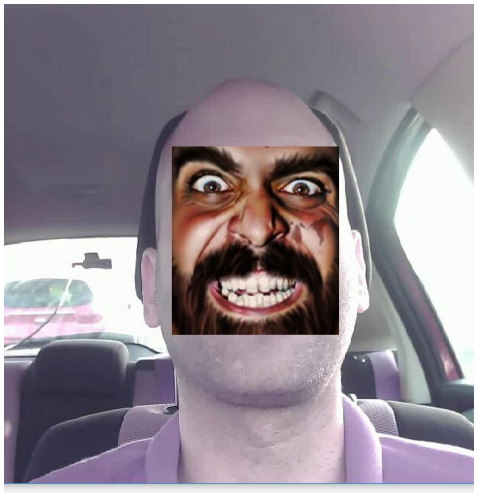
FACE SWAP (5b) - 1. vs 2. vs 3. VERSION



1b

2-3b

4-5b

FACE SWAP - 1. VERSION

1. Find face in src image

2. Extract face from src image

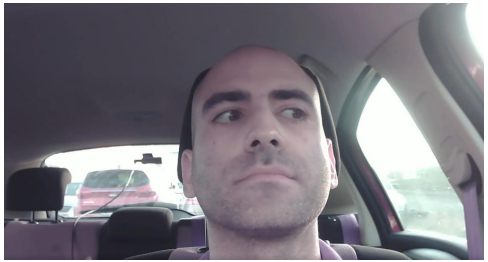
3. Find face in dst image

4. Extract face in dst image

5. Resize both faces to the same size
(size of face that was detected in dst image)

6. Copy src face into dst frame

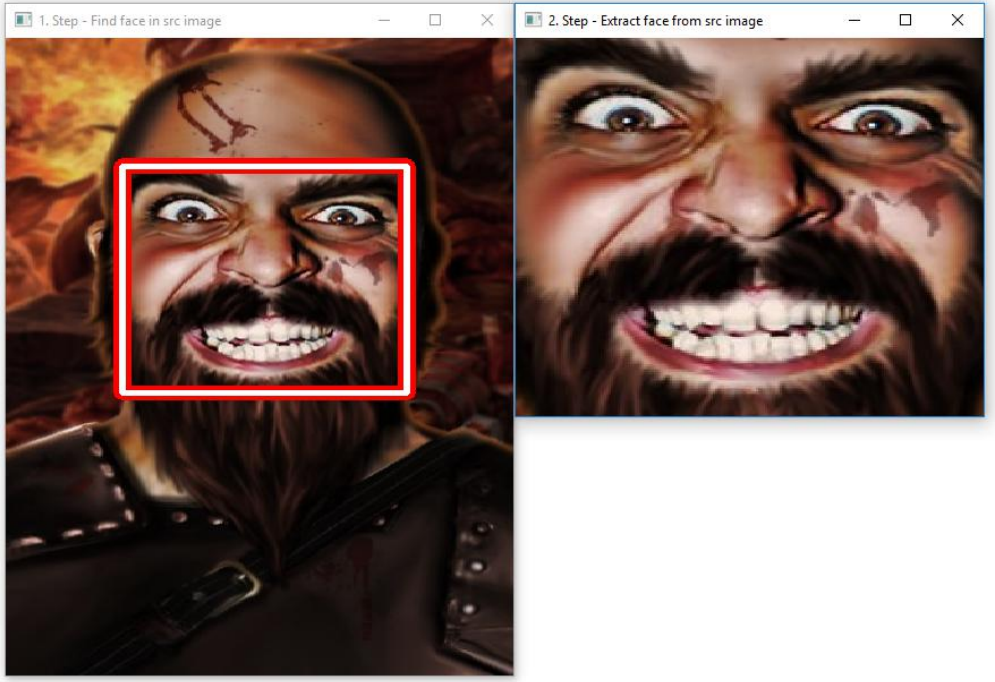
src image



dst image

FACE SWAP - 1. VERSION

1. Find face in src image
2. Extract face from src image

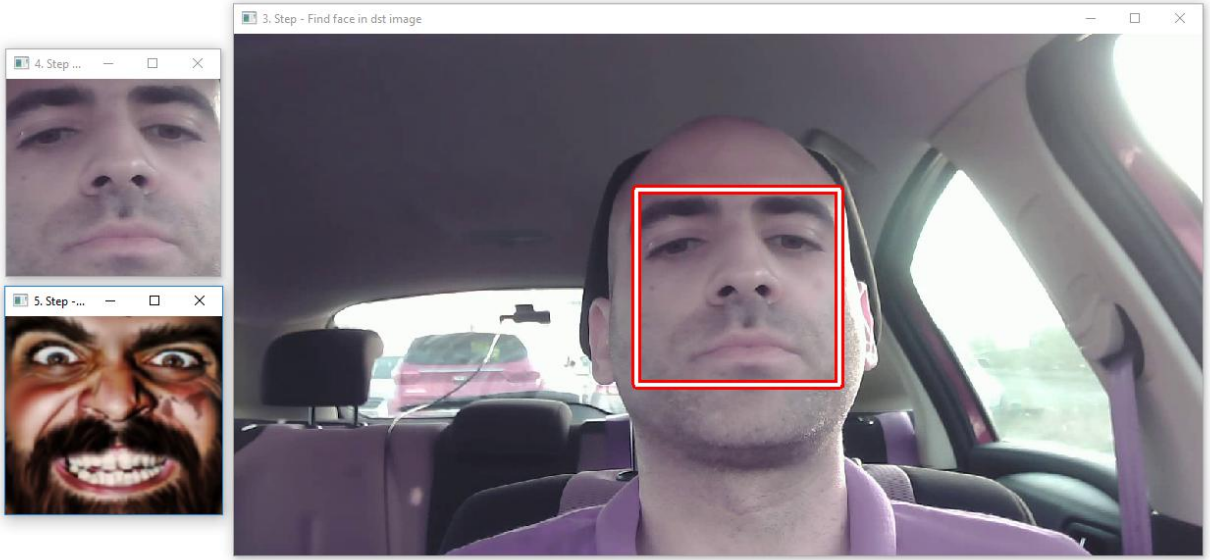


FACE SWAP - 1. VERSION

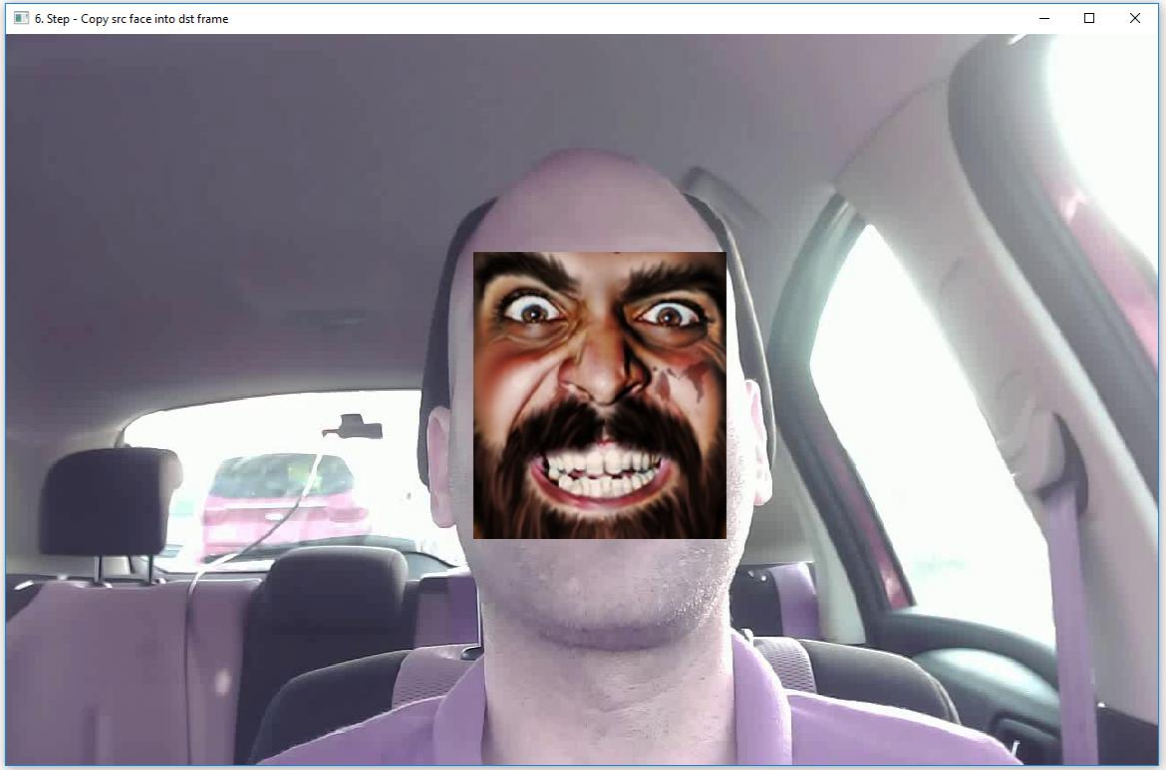
3. Find face in dst image

4. Extract face from dst image

5. Resize both faces to the same size (size of face in dst image)

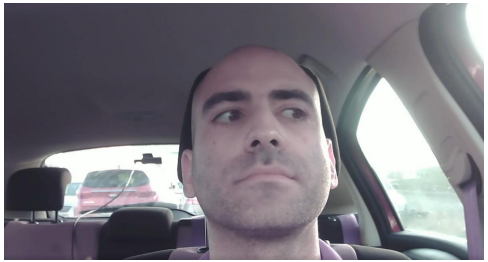


6. Copy src face into dst image



https://docs.opencv.org/4.5.5/d1/de5/classcv_1_1CascadeClassifier.html#aaf8181cb63968136476ec4204ffca498

FACE SWAP - 2. VERSION



dst image

src image

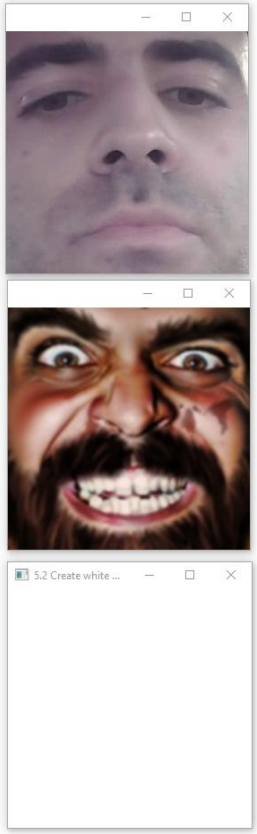
1. Find face in src image
2. Extract face from src image = **src_face_img**
3. Find face in dst image
4. Extract face in dst image
5. Resize both faces to the same size
(size of face that was detected in dst image)

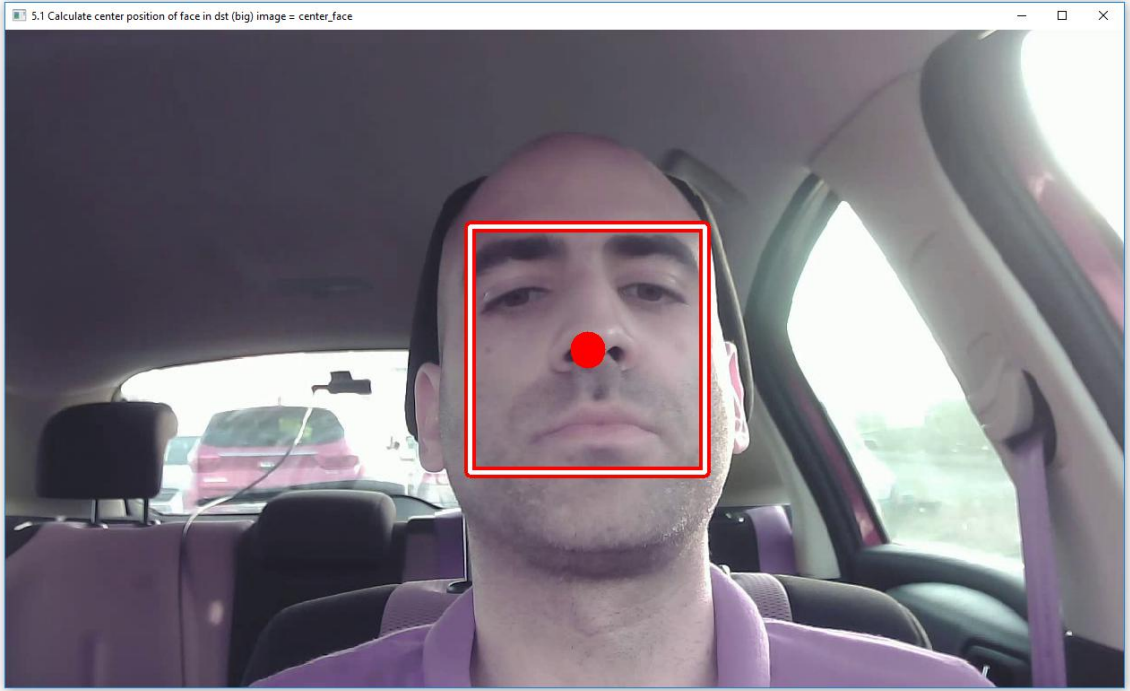
5.1. Calculate center position of face in dst (big) image = **center_face**
5.2. Create white image with the same size as faces = **src_face_mask**

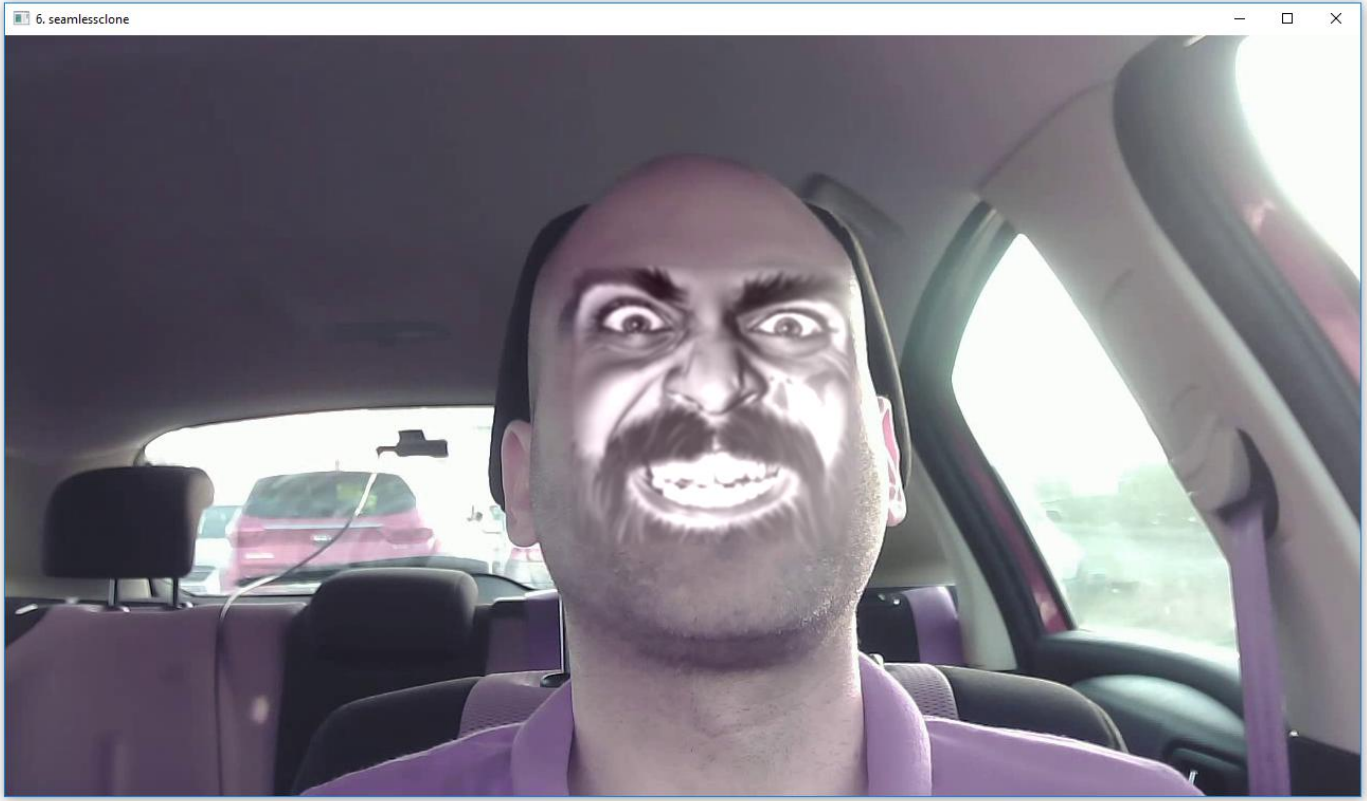
6. seamlessclone = cv2.seamlessClone(**src_face_img**, **dst_image**, **src_face_mask**, **center_face**, cv2.MONOCHROME_TRANSFER)

5.1.
Calculate center position of face in dst (big) image = **center_face**

5.2.
Create white image with the same size as faces = **src_face_mask**

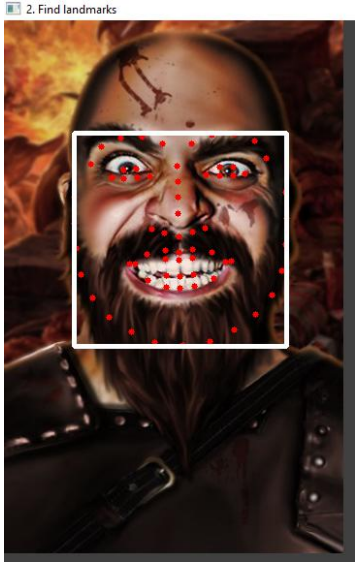


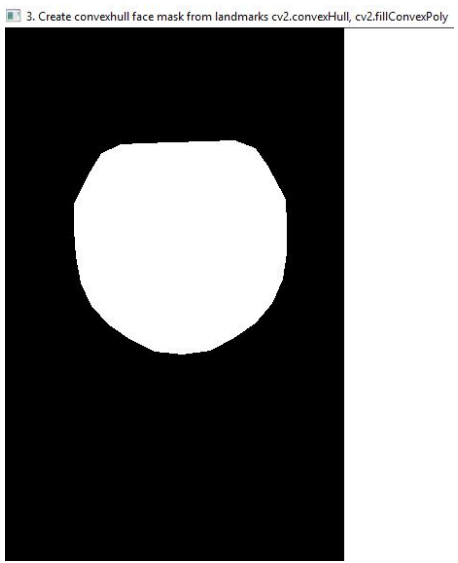


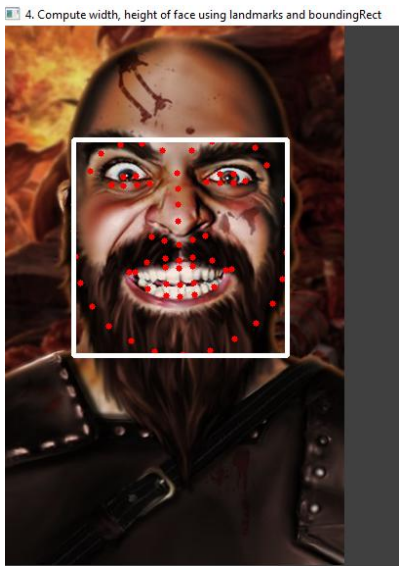


seamlessclone = cv2.seamlessClone(**src_face_img**, **dst_image**, **src_face_mask**, **center_face**, cv2.MONOCHROME_TRANSFER)

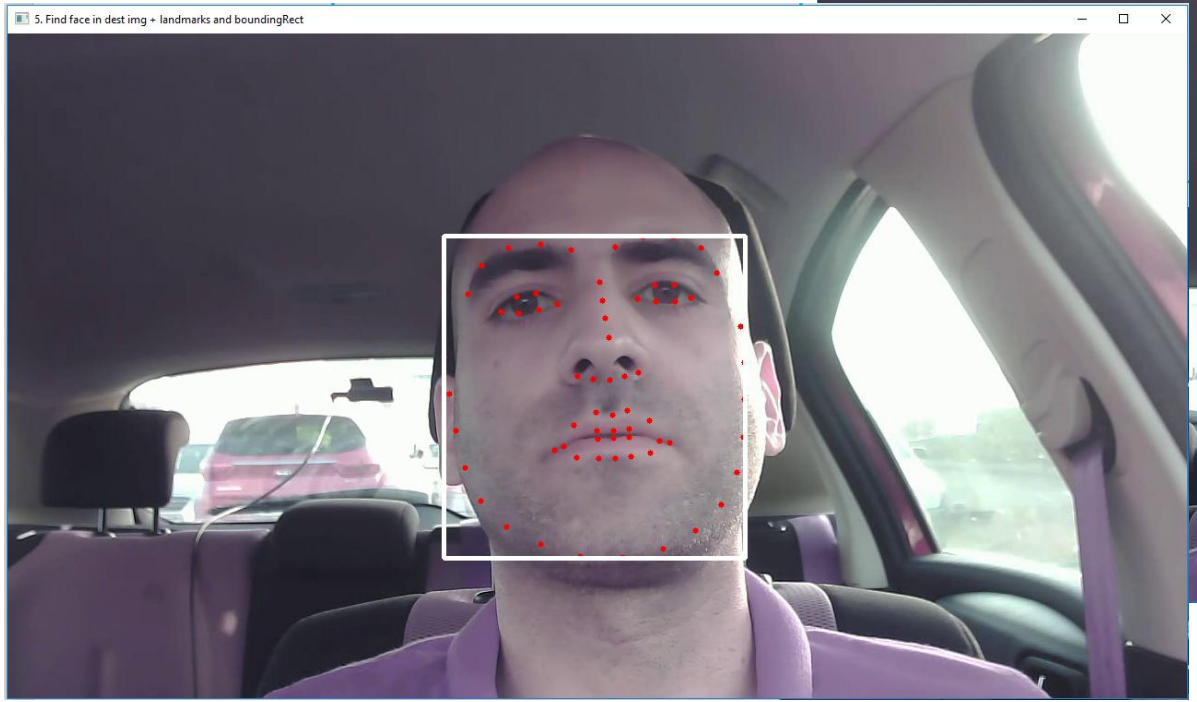
FACE SWAP - 3. VERSION

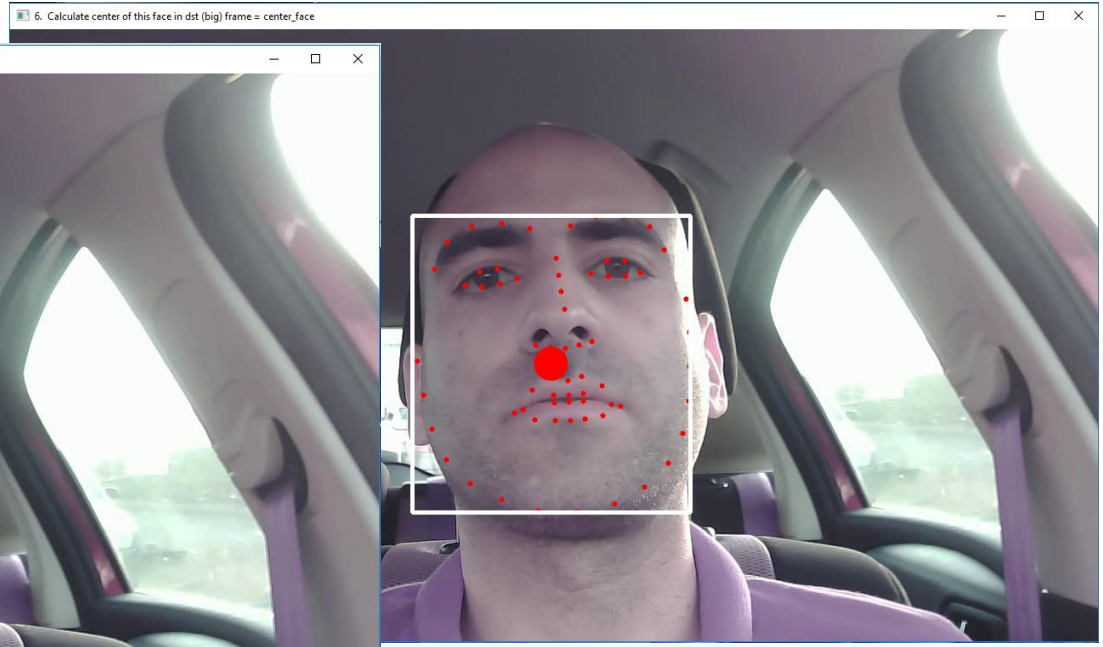






FACE SWAP - 3. VERSION





FACE SWAP – 3. VERSION

HINT:
Resize src_frame and face_mask acording to:
dst_face_w/src_face_w
dst_face_h/src_face_h

Use seamlessclone with new resize face_mask and src_frame

Use:
cv2.MONOCHROME_TRANSFER
cv2.NORMAL_CLONE

FACE SWAP - cv2.MONOCHROME_TRANSFER vs cv2.NORMAL_CLONE