Face Replacement

Option 2

Aditya Gourav Dhruva Kumar

Input



Frontal pose detected

Replaced





Frontal pose detected

Time taken: 1.04 seconds

Input



Frontal pose detected

Replaced





Reference

Frontal pose detected

Time taken: 0.96 seconds

Input



Frontal pose detected

Replaced

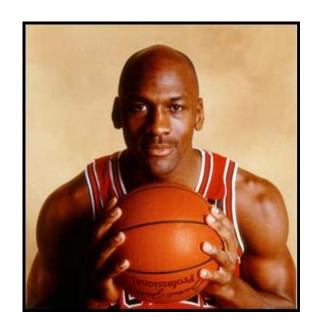


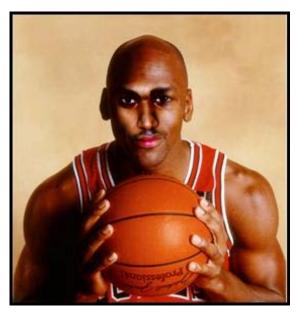


Frontal pose detected

Time taken: 0.92 seconds

Input Replaced Reference







Frontal pose detected

Frontal pose detected

Time taken: 0.8 seconds

Input



Frontal pose detected



Reference



Frontal pose detected

Replaced

Time taken: 0.90 seconds

Input



Frontal pose detected



Reference



Frontal pose detected

Replaced

Time taken: 0.95 seconds

Input Replaced Reference







Frontal pose detected

Frontal pose detected

Time taken: 0.86 seconds

Input



Left pose detected



Reference



Frontal pose detected

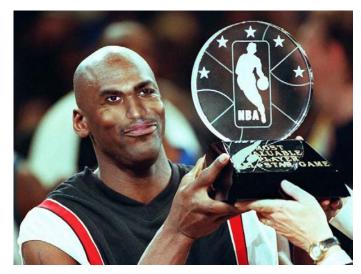
Replaced

Time taken: 0.82 seconds

Input



Right pose detected



Replaced





Frontal pose detected

Time taken: 0.93 seconds

Input



Frontal pose detected



Reference



Frontal pose detected

Replaced

Time taken: 1.1 seconds

Input



Reference



Frontal pose detected

Replaced



Reference



Frontal pose detected

Time taken: 6.6 seconds

Input



Reference



Frontal pose detected

Input



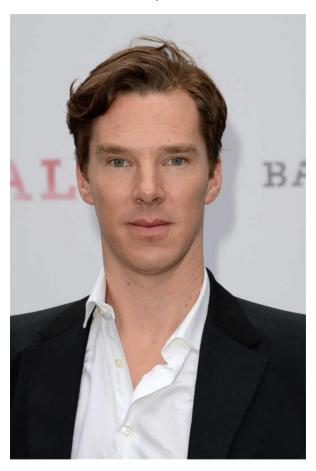
Reference



Frontal pose detected

Time taken: 8.7 seconds

Input

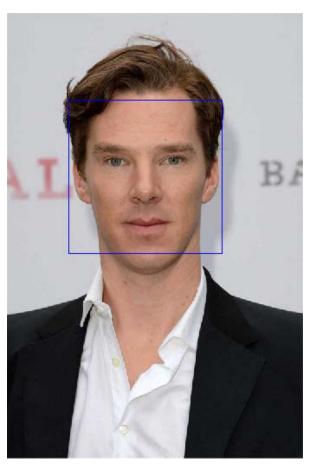


Reference



Read images

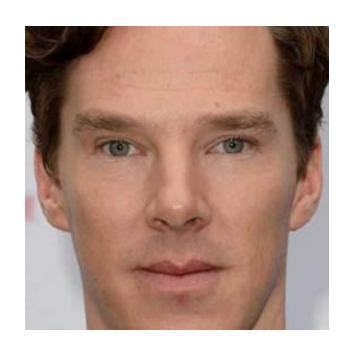
Input



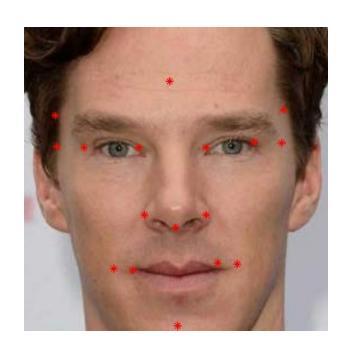
Reference

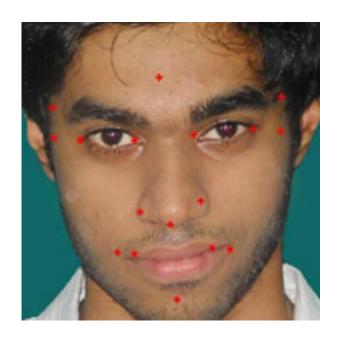


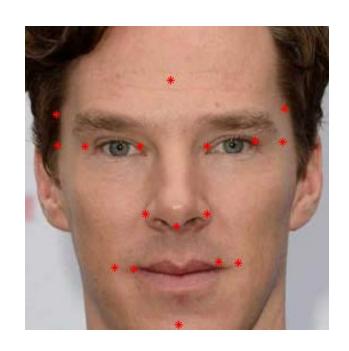
Detect faces

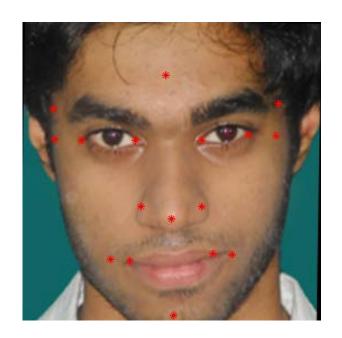




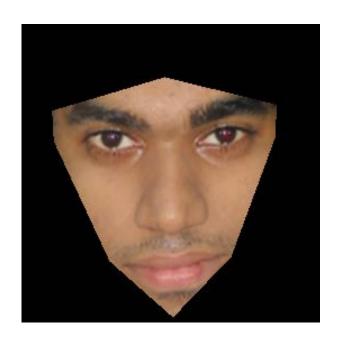
























Replaced



Retain it in the original co-ordinate system

Input



Replaced



Reference



Time taken: 1.04 seconds

References

•Face detector - http://www.mathworks.com/matlabcentral/fileexchange/36855-face-parts-detection

- Facial feature localization http://www.robots.ox.ac.uk/~vgg/research/nface/
- http://www1.cs.columbia.edu/~belhumeur/journal/siggraph08.pdf
- •http://www.eecs.harvard.edu/~kalyans/research/facereplace/VideoFace Replace SIGA11.pdf
- •http://research.microsoft.com/pubs/69972/tr-2002-111.pdf
- •http://cseweb.ucsd.edu/~ravir/papers/envmap/envmap.pdf

The quest for eternal glory continues...