

Face Swapping

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CIS581 Intro to Computer Vision
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Face Swapping History

Computer Vision Algorithms

Popularized through Snapchat and Photo filters

ML-backed Deep Fakes



Photo: reddit.com

Our Process

Libraries

dlib

OpenCV

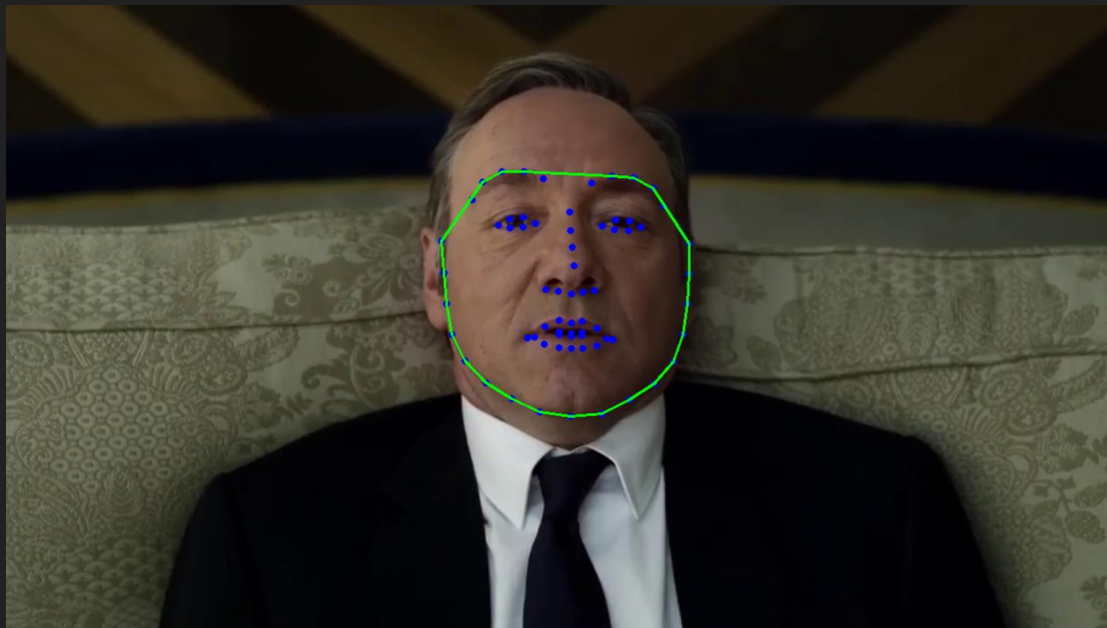
NumPy

Platform

Pycharm 2020.2.4

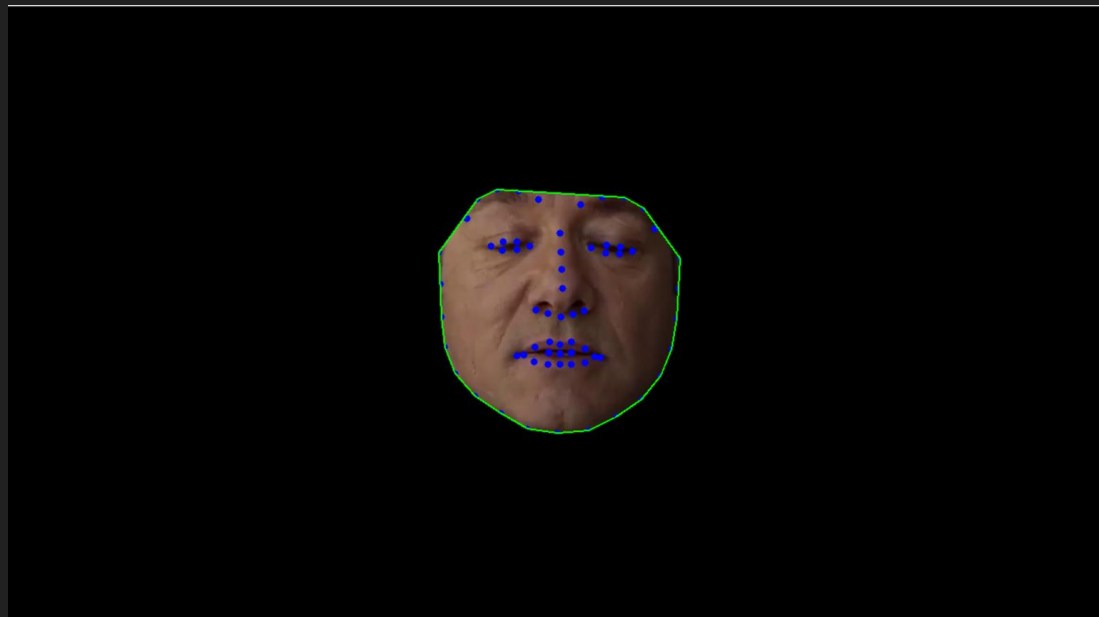
Our Process

Facial Landmarks Detection with Histogram of Oriented Gradients (HOG)



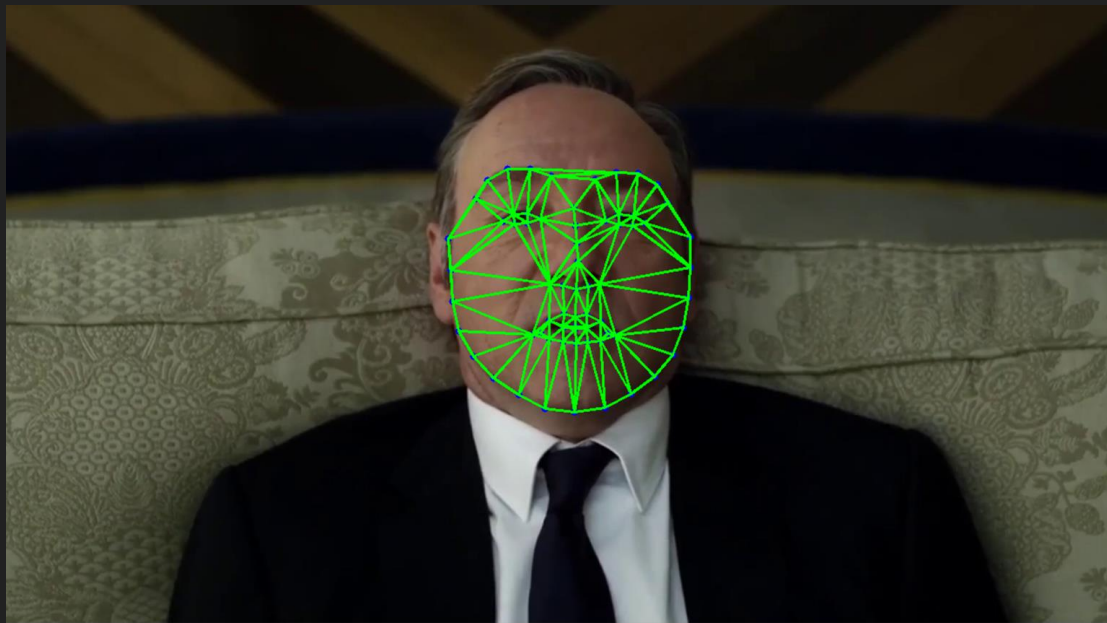
Our Process

Feature Extraction



Our Process

Delaunay Triangulation



Our Process

Face Swapping & Blending



Results

Face 1 on Face 2



Face 2 on Face 1



Results

