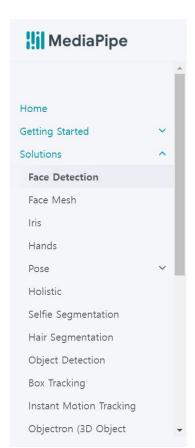
Face Recognition

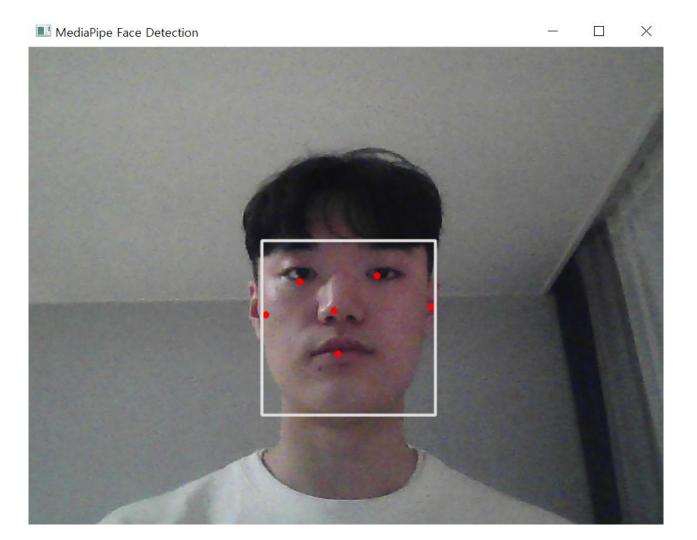


applied to any live viewfinder experience that requires an accurate facial region of interest as an input for other task-specific models, such as 3D facial keypoint or geometry estimation (e.g., MediaPipe Face Mesh), facial features or expression classification, and face region segmentation. BlazeFace uses a lightweight feature extraction network inspired by, but distinct from MobileNetV1/V2, a GPU-friendly anchor scheme modified from Single Shot MultiBox Detector (SSD), and an improved tie resolution strategy alternative to non-maximum suppression. For more information about BlazeFace, please see the Resources section.

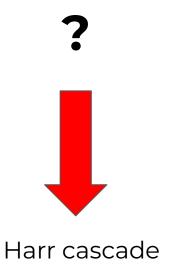


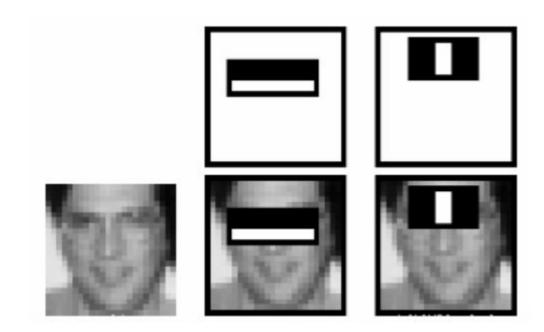
얼굴 데이터셋 생성

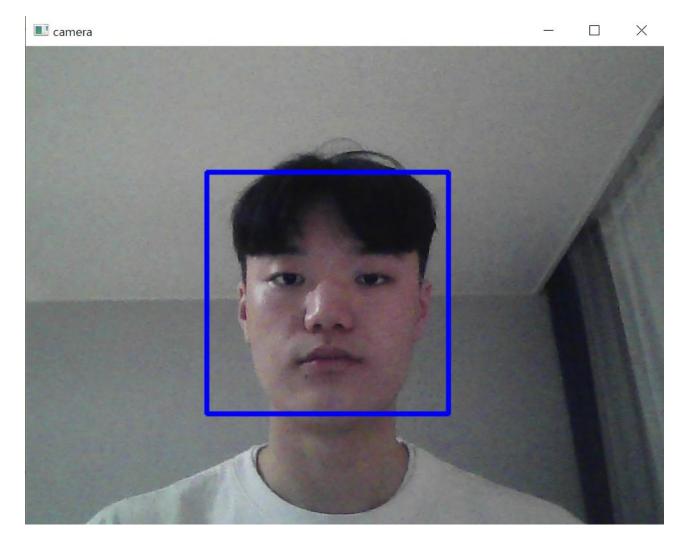


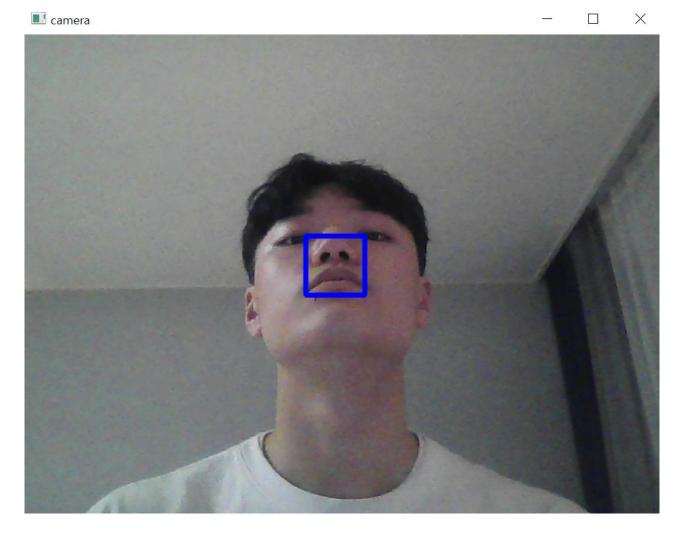


```
if results.detections:
    for detection in results.detections:
        mp_drawing.draw_detection(image, detection)
```









https://github.com/google/mediapipe/blob/master/mediapipe/python/solutions/

```
x_px = min(math.floor(normalized_x * image_width), image_width - 1)
y_px = min(math.floor(normalized_y * image_height), image_height - 1)
return x px, y px
```

```
label_id: 0
score: 0.9412506222724915
location_data {
  format: RELATIVE_BOUNDING_BOX
  relative_bounding_box {
    xmin: 0.33953961730003357
```

ymin: 0.47425389289855957 width: 0.3054411709308624

height: 0.4072263836860657

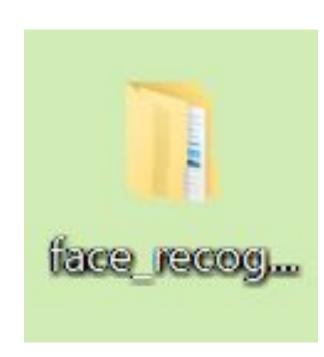
```
normalized_x=detection.location_data.relative_bounding_box.xmin
normalized_y=detection.location_data.relative_bounding_box.ymin
normalized_w=detection.location_data.relative_bounding_box.width
normalized_h=detection.location_data.relative_bounding_box.height

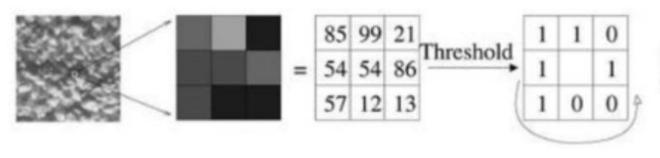
x_px = min(math.floor(normalized_x * image_width), image_width - 1)
y_px = min(math.floor(normalized_y * image_height), image_height - 1)
w_px = min(math.floor(normalized_w * image_width), image_width - 1)
```

h_px = min(math.floor(normalized_h * image_height), image_height - 1)

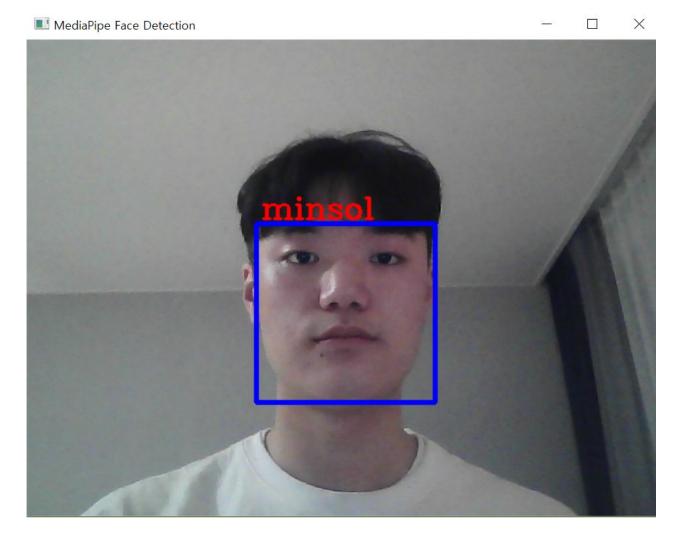
```
xmin: 0.33953961730003357
ymin: 0.47425389289855957
width: 0.3054411709308624
height: 0.4072263836860657
```

0.33953961730003357 217 227 195 195

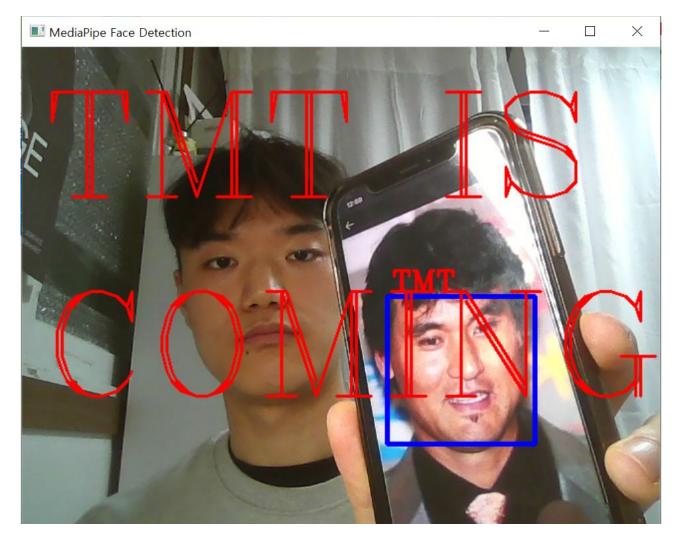


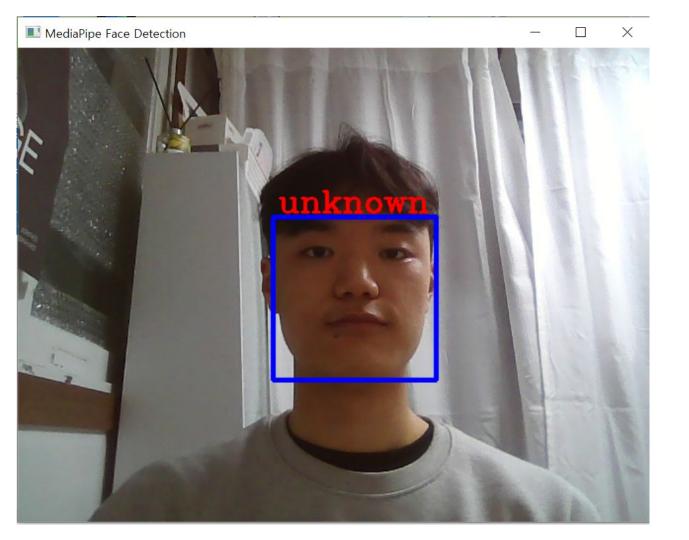


Binary: 11001011 Decimal: 203

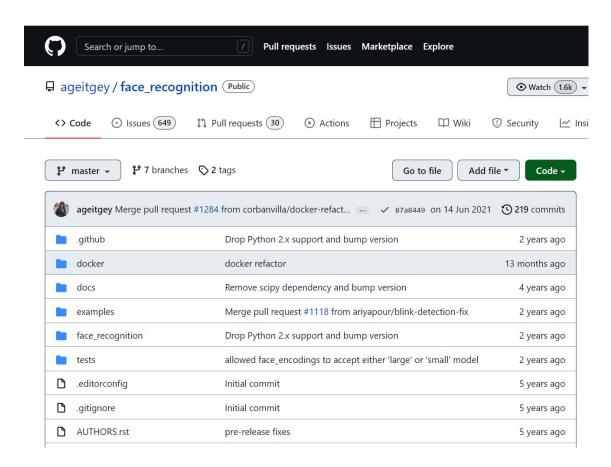


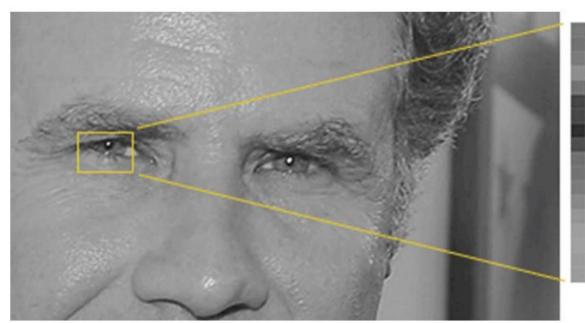


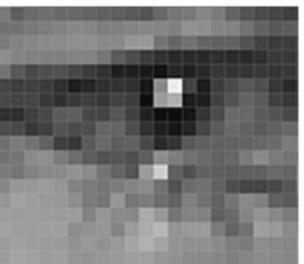




https://github.com/ageitgey/face_recognition



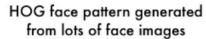


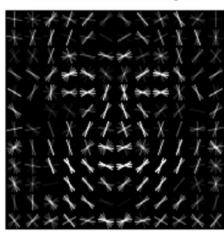


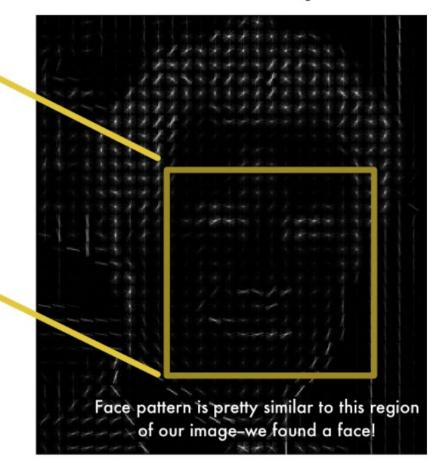


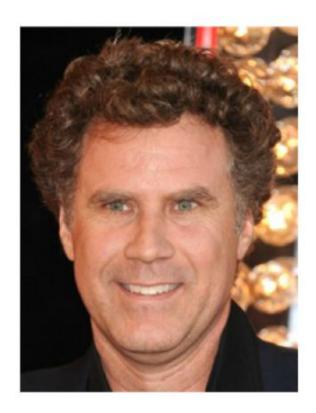


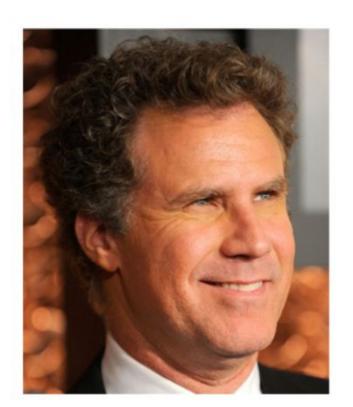
HOG version of our image



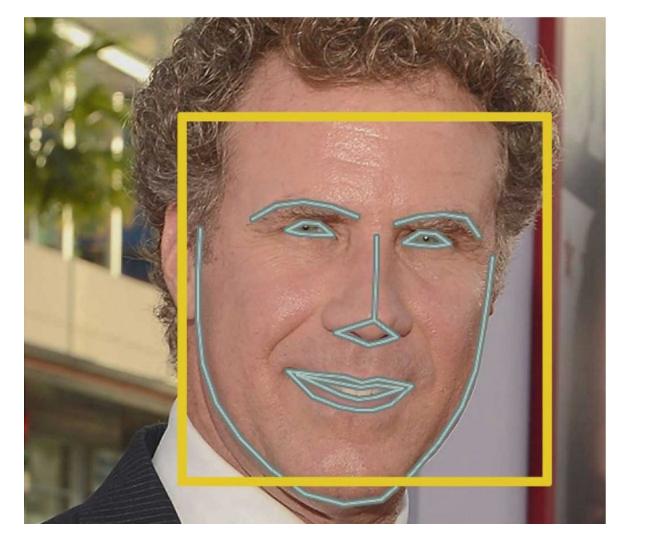


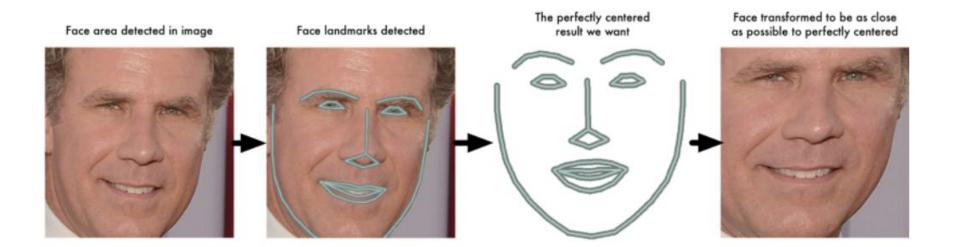




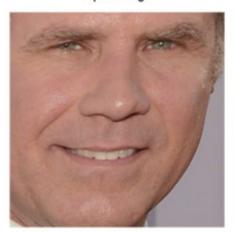








Input Image



128 Measurements Generated from Image

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-0.057223934680223
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A AA 40007000000000
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-0.081752359867096
0.037022035568953
0.12788131833076
-0.094398014247417
-0.10034311562777

•	raica iroin iiiage
	-0.1281466782093
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	0.10801389068365
	0.0731306001544
	-0.029626874253154
	-0.15958009660244
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0.032084941864014 0.020976085215807 -0.00052163278451189 -0.1318951100111 -0.0059557510539889 0.043374512344599 -0.053343612700701 0.078198105096817 -0.076289616525173 0.12369467318058 0.056418422609568 0.089727647602558 -0.0085843298584223 -0.022388197481632 0.020696049556136 -0.050584398210049 -0.072376452386379 -0.034365277737379 -0.045013956725597 -0.013955107890069 -0.17898085713387 -0.072600327432156 0.0050511928275228 -0.014829395338893 -0.043765489012003 -0.012062266469002 0.012774495407939 0.069833360612392 0.11638788878918 -0.015336792916059 0.10281457751989 -0.082041338086128



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scikit-learn 1.0.2

Other versions

Please **cite us** if you use the software.

API Reference

sklearn.base: Base classes and utility functions

sklearn.calibration:

Probability Calibration

sklearn.cluster: Clustering

sklearn.compose: Composite

Estimators

sklearn.covariance:

Covariance Estimators

sklearn.cross_decomposition:

Cross decomposition

sklearn.datasets: Datasets

sklearn.decomposition: Matrix

sklearn.svm: Support Vector Machines

The sklearn.svm module includes Support Vector Machine algorithms.

User guide: See the Support Vector Machines section for further details.

Estimators 1

<pre>svm.LinearSVC([penalty, loss, dual, tol, C,])</pre>	Linear Support Vector Classification.
<pre>svm.LinearSVR(*[, epsilon, tol, C, loss,])</pre>	Linear Support Vector Regression.
svm.NuSVC(* [, nu, kernel, degree, gamma,])	Nu-Support Vector Classification.
svm.NuSVR(* [, nu, C, kernel, degree, gamma,])	Nu Support Vector Regression.
<pre>svm.OneClassSVM(* [, kernel, degree, gamma,])</pre>	Unsupervised Outlier Detection.
<pre>svm.SVC(*[, C, kernel, degree, gamma,])</pre>	C-Support Vector Classification.
svm.SVR(* [, kernel, degree, gamma, coef0,])	Epsilon-Support Vector Regression.
4	





Processing 1.jpg [0.46317754 0.56984135]

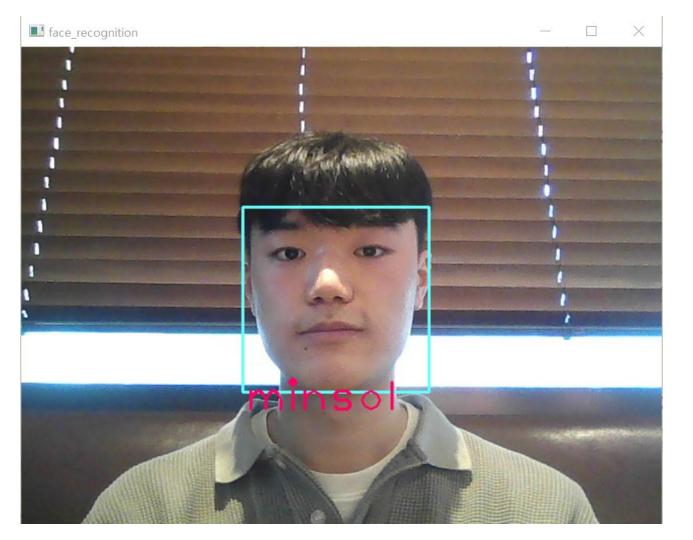




Processing 2.jpg [0.64085531 0.37851057]



Processing 3.jpg [0.90024815 0.74262822]



하지만...