

# Face Detection API

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## Python

### How to use:

Import "FaceDetection" folder to your Project. Import cv2. Import "FaceDetection.py" into your code: `import FaceDetectionPy.FaceDetection as vision`, use `vision.StartDetection()`.

## C Sharp

### How to use:

(You can use NugGet Package Manager in Visual Studio). Install EMGU.CV; Install AForge.Video.DirectShow; In References, add "System.Windows.Forms" and "System.Drawing"; Set "*haarcascade\_frontalface\_alt.xml*" to always copy to the output directory;

### Properties

Face Detection Properties

**delegate void OnDetectFace:** Receives the signature of callbacks that are executed when detecting a face.

**int DeviceFilterIndex:** Index of the device to run application (you can see the list of devices using the "ShowDevices()" method). 0 by default;

**bool Show display:** If true, show a pictureBox with the Cam frames.

### Methods

Face Detection Methods

**ShowDevices():** Return a string of detected devices;

**Start():** Start Cam device and the faces detection;

**CloseDisplay():** Closes the display;

**OpenDisplay():** Open the display;

**Stop():** Stops the FaceDetection Application, if you want to restart the application, create a new instance.