# OpenCV for Unity

#### iOS & Android support

Win & Mac Standalone support(Pro only)
Support for preview in the Editor.(Pro only)

Work with Unity Free & Pro

# System Requirements

Build Win Standalone & Preview Editor: Windows7 or later Build Mac Standalone & Preview Editor: OSX 10.8 or later

OpenCV for Unity is Assets Plugin for using the OpenCV from Unity3D.

- Since making as a clone of OpenCV Java, you can use as it is all the <u>API Reference</u>
   <u>OpenCV Java</u>. (However, "org.opencv.android" and "SURF and SIFT of
   org.opencv.features2d(so nonfree)" are excluded.)
- Many classes of OpenCV for Unity implement IDisposable. You can be manage the resources by "using" statement.
- providing a method to interconversion of the Unity's Texture2D and OpenCV's Mat.
- You can image processing in real time by using the WebCamTexture of Unity. (real-time face detection are working smoothly in iPhone 5.)

Please download <u>Demo Application</u> for Android and watch <u>tutorial video</u>.

#### Version changes

1.0.4 [Common]Add Method matToTexture2D( Mat mat, Texture2D texture2D, Color32[] bufferColors = null).

1.0.3 [Common]Support for preview in the Editor.(Pro only) [Common]Support for Win & Mac Standalone.(Pro only) [Android]Change of location of the file that you want to use for Utils.getFilePath().Changed to use "Aseets/StreamingAssets/" folder. [iOS] Add the file that you want to use for Utils.getFilePath() to Xcode project is no longer required.Changed to use "Aseets/StreamingAssets/" folder.

1.0.2 [iOS]fix library(libjpeg,libpng) version coflicts.

1.0.1 Initial version

#### Android Setup

- Copy from "OpenCVForUnity/Plugins/Android/" to "Assets/Plugins/Android/" folder.(libnative\_camera\_r\*.\*.\*.so is only required when using the VideoCapture.)
- Put the file that you want to use for Utils.getFilePath() in the "Aseets/StreamingAssets/"folder. (Upgrade from 1.0.2 If "Error: Duplicate file(s) in apk" occurs, Please delete the file with the same name in the "Plugins/Android/assets/"folder.) (haarcascade\_frontalface\_alt.xml is for OpenCVForUnitySample.scene. Please copy only when necessary.)

# iOS Setup

- Copy from "OpenCVForUnity/Plugins/iOS/" to "Assets/Plugin/iOS/" folder.
- Put the file that you want to use for Utils.getFilePath() in the "Aseets/StreamingAssets/"folder. (Upgrade from 1.0.2 Add the cascade file to Xcode project is no longer required.) (haarcascade\_frontalface\_alt.xml is for OpenCVForUnitySample.scene. Please copy only when necessary.)
- Link "OpenCVForUnity/iOS for Xcode/opencv2.framework" to Xcode project. (in Xcode project. Build Phases > Link Binary with Libraries > Add opencv2.framework . recommend to use PostprocessBuildPlayer.)

### Win Standalone Setup

- Copy from "OpenCVForUnity/Plugins/x86/" to "Assets/Plugins/x86/" folder.
- Copy from "OpenCVForUnity/Plugins/x86\_64/" to "Assets/Plugins/x86\_64/" folder.
- Put the file that you want to use for Utils.getFilePath() in the "Aseets/StreamingAssets/".

# Mac Standalone Setup

- Copy from "OpenCVForUnity/Plugins/opencvforunity.bundle" to "Assets/Plugins/opencvforunity.bundle" folder.
- Put the file that you want to use for Utils.getFilePath() in the "Aseets/StreamingAssets/".

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