



Modern C++ libraries for your OpenCV toolbox

 Editor (<http://pythonopencv.com/author/administrator/>) 

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Hello Folks,

I think following is my personal favorite list of toolbox that i frequently use with OpenCV. Hope this will assist you in time of need.

Keep it handy !!

Cross-platform libraries that are free for commercial (or non-commercial) applications

-
- General Purpose
 - Boost (<http://www.boost.org/>)
 - Loki (<http://loki-lib.sourceforge.net/>)
 - MiLi (<https://code.google.com/p/mili/>)
 - POCO (<http://pocoproject.org/>)
 - STL (http://en.wikipedia.org/wiki/Standard_template_library) (of course)
 - STXXL (<http://stxxl.sourceforge.net/>) (STL re-implementation for extra large data sets)
 - Qt (<http://www.qt.io/>)
 - ASL (<http://stlab.adobe.com/>)
 - JUCE (<http://www.juce.com/>)

-
- Audio
 - FMOD (<http://www.fmod.org/>)
 - Synthesis ToolKit (<https://ccrma.stanford.edu/software/stk/>)
 - Database
 - SOCI (<http://soci.sourceforge.net/>)
 - OTL (<http://otl.sourceforge.net/>)



- LMDB++ (<http://lmbdxx.sourceforge.net/>)
- Design
 - IoC Frameworks
 - Hypodermic (<https://github.com/ybainier/Hypodermic>)
 - PocoCapsule (<http://www.pocomatic.com/docs/whitepapers/pococapsule-cpp/>)
 - Wallaroo (<http://wallaroolib.sourceforge.net/>)
- Documents
 - LibreOffice API (<http://api.libreoffice.org/>)
 - PoDoFo (<http://podofo.sourceforge.net/>)
- Graphics
 - Allegro (<http://alleg.sourceforge.net/>)
 - OGRE (<http://www.ogre3d.org/>)
 - SFML (<http://www.sfml-dev.org/>)
- GUI
 - FLTK (<http://www.fltk.org/>)
 - GTK (<http://www.gtkmm.org/>)
 - Qt (<http://www.qt.io/>)
 - Qwt (<http://http://qwt.sourceforge.net/>)
 - wxWidgets (<http://www.wxwidgets.org/>)
 - VTK (<http://vtk.org/>)
- Hashing
 - MurmurHash3 (<https://code.google.com/p/smhasher/wiki/MurmurHash3>)
- Imaging
 - Boost.GIL (http://www.boost.org/doc/libs/1_38_0/libs/gil/doc/index.html)
 - CImg (<http://cimg.sourceforge.net/>)
 - DevIL (<http://openil.sourceforge.net/>)
 - EasyBMP (<http://easybmp.sourceforge.net/>)
 - FreeImage (<http://freeimage.sourceforge.net/>)
 - ITK (<http://itk.org/>)
 - OpenCV (<http://opencv.willowgarage.com/>)
- Logging
 - Boost.Log (<http://boost-log.sourceforge.net/libs/log/doc/html/index.html>)
 - log4cxx (<http://logging.apache.org/log4cxx/index.html>)
 - Pantheios (<http://www.pantheios.org/>)
- Mocking
 - Google Mock (<https://code.google.com/p/googlemock/>)
 - Hippo Mocks (<https://www.assembla.com/wiki/show/hippomocks>)
 - Turtle (<http://turtle.sourceforge.net/>) (C++ mock object library for Boost)
- Multimedia
 - openframework (<http://openframeworks.cc/>)
 - Cinder (<http://libcinder.org/>)
 - SDL (<http://www.libsdl.org/>)
- Networking
 - ACE (<http://www.cs.wustl.edu/~schmidt/ACE.html>)
 - Boost.Asio (http://www.boost.org/doc/libs/1_37_0/doc/html/boost_asio.html)
 - ICE (<http://www.zeroc.com/>)
- Testing
 - Boost.Test (http://www.boost.org/doc/libs/1_38_0/libs/test/doc/html/index.html)
 - Google Test (<http://googletest.googlecode.com/>)



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(8,955)

Hey Friends, I am starting my own blog series on OpenCV Development Tutorials and this being my first post. As many of ...

Simple Hand/Finger Tracking & Gesture Recognition (<http://pythonopencv.com/simple-handfinger-tracking-gesture-recognition/>)

(3,920)



Once again, hello !! In this post, we are going to cover Hand Gesture Tracking. It's one of my favorite and fun ...

Install OpenCV 3.3 and Python(2.7 & 3.5) bindings on Ubuntu 16.04

(<http://pythonopencv.com/install-opencv-3-3-and-python2-7-3-5-bindings-on-ubuntu-16-04/>)

(3,371)

Hello, In this post, we are going to cover, how to install OpenCV 3.3 and Python 2.7 or 3.5 bindings on latest ...

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(3,102)

Hello Friends, Following our last post on installing OpenCV 3.3 as per the below link, i am sure most of you might ...

(COMPLETE, BEST & EASIEST) ESP8266-01 | ESP8266-12E/F Configuration Guide with Arduino Nano/Mega/UNO for IoT Projects (Includes all ESP Issues) (<http://pythonopencv.com/complete-best-easiest-esp8266-01-esp8266-12ef-configuration-guide-with-arduino-nanomegauno-for-iot-projects-includes-all-esp-issues/>)

(3,029)

Hello Friends, Have you been trying real-hard to get your good old ESP8266 -01 / 12 E / 12 F working with ...

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Welcome to OpenCV World !! Come as a Guest, stay as a Family ()

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(Step by Step) (Python 2.7) Install OpenCV 3.3 (Win10) x64
(<http://pythonopencv.com/installation-of-opencv-3-3-23-0-and-python-2-x-on-windows-10-python-2-precompiled-binaries/>)

Simplest Facial Recognition(Ubuntu + Python)
(<http://pythonopencv.com/worlds-simplest-facial-recognition-api-for-pythonubuntu-only/>)

Simple Vehicle Tracking/Detection System (C++)
OpenCV | Windows 10 | x64 | Visual Studio 2015
(<http://pythonopencv.com/simple-vehicle-trackingdetection-system-c-opencv-windows-10-x64-visual-studio-2015/>)

OpenCV : Motion Tracking with Recording using WebCam (Easy Way) aka Motion Activated Security Camera
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Fast Object Tracking based on HSV, YUV, RGB & YCrCb Threshold and Contours Detection with X, Y Coordinates (<http://pythonopencv.com/fast-object-tracking-based-on-hsv-yuv-rgb-ycrcb-threshold-and-contours-detection/>)

Easiest way to install OpenCV on Ubuntu 16.04 (Python + C++ Support)

(<http://pythonopencv.com/easiest-way-to-install-opencv-on-ubuntu-16-04-python-c-support/>)

Recognizing day to day objects using Object Recognition in OpenCV (C++)

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Simple Digit Recognition aka Optical Character Recognition(OCR) in OpenCV-C++

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Driver Drowsiness detection using OpenCV and Python (<http://pythonopencv.com/driver-drowsiness-detection-using-opencv-and-python/>)

Guide to ESP Arduino

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