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## **Welcome to OpenCV-Python Tutorials's documentation ...**

OpenCV-Python Tutorials  
Documentation, Release 1 10.Remaining  
fields specify what modules are to be  
built. Since GPU modules are not yet  
supported by OpenCV-Python, you can

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completely avoid it to save time (But if you work with them, keep it there). See the image below: 12 Chapter 1. OpenCV-Python Tutorials

## **OpenCV-Python Tutorials Documentation**

Learn how to setup OpenCV-Python on your computer! Gui Features in OpenCV. Here you will learn how to display and save images and videos, control mouse events and create trackbar. Core Operations. In this section you will learn basic operations on image like pixel editing, geometric transformations, code optimization, some mathematical tools etc.

## **OpenCV-Python Tutorials — OpenCV-Python Tutorials 1 ...**

OpenCV-Python Tutorials¶. OpenCV introduces a new set of tutorials which will guide you through various functions available in OpenCV-Python. This guide is mainly focused on OpenCV 3.x version (although most of the tutorials will work

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with OpenCV 2.x also).. A prior knowledge on Python and Numpy is required before starting because they won't be covered in this guide.

## **Introduction to OpenCV-Python Tutorials — OpenCV-Python ...**

OpenCV-Python Tutorials. Introduction to OpenCV; Gui Features in OpenCV; Core Operations. Basic Operations on Images; Arithmetic Operations on Images; Performance Measurement and Improvement Techniques; Mathematical Tools in OpenCV; Image Processing in OpenCV; Feature Detection and Description; Video Analysis; Camera Calibration and 3D ...

## **Core Operations — OpenCV-Python Tutorials 1 documentation**

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work with OpenCV 2.x). Prior knowledge of Python and Numpy is recommended as they won't be covered in this guide.

## **OpenCV: Introduction to OpenCV-Python Tutorials**

OpenCV comes with two methods, we will see both. But before that, we can refine the camera matrix based on a free scaling parameter using `cv2.getOptimalNewCameraMatrix()` . If the scaling parameter  $\alpha=0$  , it returns undistorted image with minimum unwanted pixels.

## **Camera Calibration — OpenCV-Python Tutorials 1 documentation**

Introduction to OpenCV. Introduction to OpenCV-Python Tutorials; Install OpenCV-Python in Windows; Install OpenCV-Python in Fedora; Gui Features in OpenCV; Core Operations; Image Processing in OpenCV; Feature Detection and Description; Video Analysis; Camera Calibration and 3D Reconstruction; Machine Learning; Computational

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Photography; Object ...

## **Introduction to OpenCV — OpenCV-Python Tutorials 1 ...**

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## **OpenCV-Python Tutorials - OpenCV documentation index**

Haar-cascade Detection in OpenCV¶  
OpenCV comes with a trainer as well as detector. If you want to train your own classifier for any object like car, planes etc. you can use OpenCV to create one. Its full details are given here: Cascade Classifier Training. Here we will deal with detection.

## **Face Detection using Haar Cascades — OpenCV-Python ...**

— OpenCV-Python Tutorials 1

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Documentation Source: OpenCV Official  
Documentation; First, you need to setup  
your Python Environment with OpenCV.  
You can easily do it by following  
Life2Coding's tutorial on YouTube:  
Linking OpenCV 3 with Python 3. Goals:  
In this tutorial, I will show you how to  
play video files like a videoplayer using  
OpenCV with Python coding.

## **Play Video Files using OpenCV in Python**

Several algorithms were designed for  
this purpose and OpenCV provides two  
of them. Both can be accessed by the  
same function, cv2.inpaint() First  
algorithm is based on the paper "An  
Image Inpainting Technique Based on  
the Fast Marching Method" by Alexandru



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Telea in 2004. It is based on Fast  
Marching Method.

## **Image Inpainting — OpenCV-Python Tutorials beta documentation**

OpenCV-Python Tutorials ... Mean  
Intensity etc. More features can be  
found at Matlab regionprops  
documentation. (NB : Centroid, Area,  
Perimeter etc also belong to this  
category, but we have seen it in last  
chapter) 1.

## **Contour Properties — OpenCV- Python Tutorials beta ...**

Lucas-Kanade Optical Flow in OpenCV¶  
OpenCV provides all these in a single  
function, `cv2.calcOpticalFlowPyrLK()`.  
Here, we create a simple application  
which tracks some points in a video. To  
decide the points, we use  
`cv2.goodFeaturesToTrack()`. We take the  
first frame, detect some Shi-Tomasi  
corner points in it, then we iteratively  
track those ...

## **Optical Flow – OpenCV-Python Tutorials beta documentation**

OpenCV Java Tutorials Documentation, Release 1.0alpha In the New Java Projectdialog write the name of your project and click on Finish. Add a User Library If you followed the previous tutorial (Installing OpenCV for Java), you should already have the OpenCV library set in your workspace's user libraries, if not please check out the previous ...

## **OpenCV Java Tutorials Documentation**

OpenCV-Python Tutorials ... Check the documentation for `cv2.pointPolygonTest()`, you can find a nice image in Red and Blue color. It represents the distance from all pixels to the white curve on it. All pixels inside curve is blue depending on the distance. Similarly outside points are red. Contour edges are marked with White.

## **Contours - OpenCV-Python Tutorials beta documentation**

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Theory¶. GrabCut algorithm was designed by Carsten Rother, Vladimir Kolmogorov & Andrew Blake from Microsoft Research Cambridge, UK. in their paper, “GrabCut”: interactive foreground extraction using iterated graph cuts. An algorithm was needed for foreground extraction with minimal user interaction, and the result was GrabCut.

Copyright code:

d41d8cd98f00b204e9800998ecf8427e.