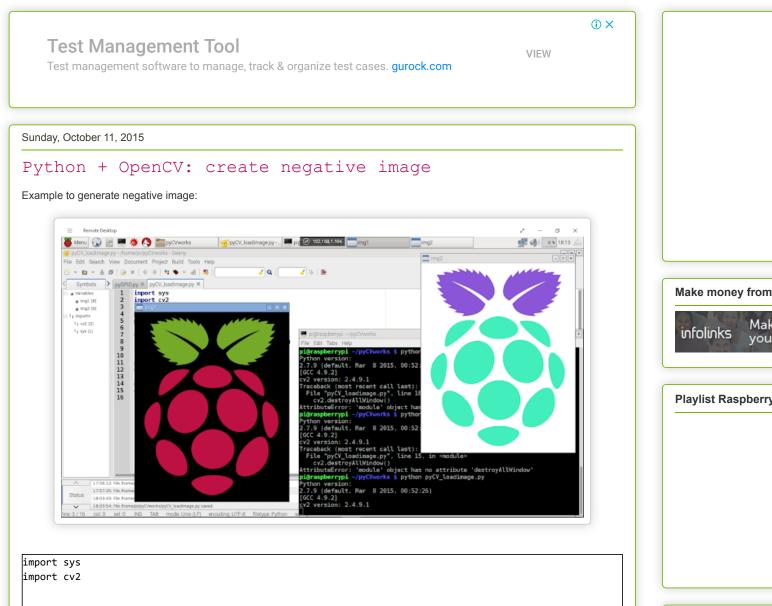
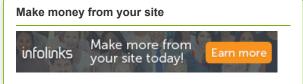
المزيد المزيد

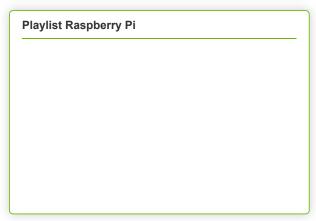
Hello Raspberry Pi

Beginner in Raspberry Pi









```
print("Python version: \n" + sys.version)
print("cv2 version: " + cv2.__version__)

#img1 and img2 must be in same size
img1 = cv2.imread('Raspberry_Pi_Logo.png', 1)
img2 = (255-img1)

cv2.imshow('img1',img1)
cv2.imshow('img2',img2)

cv2.waitKey(0)
cv2.destroyAllWindow()
```

Edit the example "Capture Raspberry Pi Camera image, display on OpenCV, Matplotlib PyPlot and Tkinter GUI" to generate negative image from the picamera captured image.

```
import picamera
import picamera.array
import time
import cv2
from matplotlib import pyplot as plt
import Tkinter
import Image, ImageTk
import sys
def capturePiCam():
    with picamera.PiCamera() as camera:
        cap=picamera.array.PiRGBArray(camera)
        camera.resolution = (640, 480)
        camera.start preview()
        time.sleep(3)
        camera.capture(cap,format="bgr")
        global img
        img =cap.array
        img = (255 - img)
#- display on OpenCV window -
def displayAtOpenCV():
    cv2.namedWindow('imageWindow', cv2.WINDOW_AUTOSIZE)
    cv2.imshow('imageWindow',img)
    cv2.waitKey(0)
    cv2.destroyAllWindows()
#- display with matplotlib -
def displayAtPyplot():
```



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I have old posts of " Stream Raspberry Pi Camera Module video using raspivid and vlc " and " Play stream video (from Raspberr...



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Python socket server to send camera image to client (II)

Last exercise implement Python socket server to send camera image to client,

```
plt.figure().canvas.set_window_title("Hello Raspberry Pi")
    plt.imshow(cv2.cvtColor(img, cv2.COLOR BGR2RGB))
    plt.xticks([]), plt.yticks([]) # to hide tick values on X and Y axis
    plt.show()
#- display on Tkinter -
def displayAtThinter():
    root = Tkinter.Tk()
    b,g,r = cv2.split(img)
    img2 = cv2.merge((r,g,b))
    img2FromArray = Image.fromarray(img2)
    imgtk = ImageTk.PhotoImage(image=img2FromArray)
    Tkinter.Label(root, image=imgtk).pack()
    root.mainloop()
def displayUsage():
    print("usage: ")
    print("python pyCV picam.py 1 - display wiyh OpenCV window")
    print("python pyCV picam.py 2 - display with matplotlib")
    print("python pyCV_picam.py 3 - display with Tkinter")
if len(sys.argv) != 2:
    displayUsage()
    sys.exit()
opt = sys.argv[1]
if opt=="1":
    print("display wiyh OpenCV window")
    capturePiCam()
    displayAtOpenCV()
elif opt=="2":
    print("display with matplotlib")
    capturePiCam()
    displayAtPyplot()
elif opt=="3":
    print("display with Tkinter")
    capturePiCam()
    displayAtThinter()
else:
    displayUsage()
```

wait client, send image file, and exit. In this exercise, the...



Stream RPi Camera Module Video to network, using Python

It's a example on Picamera docs -Recording to a network stream, to stream video of Raspberry Pi Camera

Module to network using Pytho...



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It's a Waveshare Raspberry Pi LCD Display Module 3.5inch 320*480 TFT Resistive Touch Screen Panel using SPI

Interface. The seller pro...



Pi telecamera - WaveShare Raspberry Pi Camera module connect to 300mm tele lens

This post show how to build a Raspberry Pi Telescope using: - Nikkor AF 300mm

f4 ED - Al-C mount adapter (Nikkor Lens to C-mount)



Python socket server to send camera image to client

Simple server run on Raspberry Pi to send jpg from Camera Module to client. Can be viewed on browsers at

http://<Raspberry Pi IP>:8000...



Python + OpenCV: convert RGB to HSV and reverse

Python + OpenCV example run on Raspberry Pi 2 to convert RGB to HSV and reverse from HSV to

RGB, pyCV_cvtImage.py. import sys import cv2...

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