

OpenCV + Python setup

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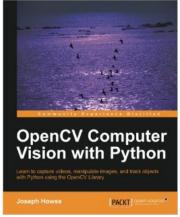
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Import required packages

In [1]: # Your solution here

Load and display the image shown below (data/test.jpg)



data/test.jpg

In [9]: # Your solution here

Print image height and width and the number of channels

In [10]: # Your solution here

Convert image to grayscale

After conversion, the image will look something like this.



In [4]: # Your solution here

Print the height, width and the number of channels of the grayscale image

In [5]: # Your solution here

Save the grayscale image to file test_gray.jpg

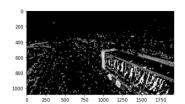
In [6]: # Your solution here

Display the first frame from the video data/traffic-short.mp4

- 1. Open a video stream.
- 2. Read in the first frame.
- 3. Read in the second frame.
- 4. Find the differences between the two frames.
- 5. Display the first frame, the second frame and the differences as seen below.
- 6. Close the video stream





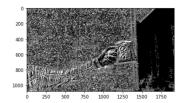


Capture a frame from webcam

- 1. Open a camera stream.
- 2. Read in one frame.
- 3. Read in another frame.
- 4. Find the differences between the two frames.
- 5. Display the first frame, the second frame and the differences as seen below (your frames will be different).
- 6. Close the video stream







In [8]: # Your solution here





In []: