

## Afternoon Session

Date - May 29

Course - Python

Topic - Image & Video  
processing

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Sem - IV Sem.

Report:

Python for Image and Video processing with opencv.

\* Installing opencv.

please open python &amp; type import cv2.

To install:

1. open the command line &amp; type.

pip install opencv-python

2. Then open a python session &amp; try:

import cv2.

3. If you get no errors that means you installed opencv successfully.

Loading, Displaying, Resizing &amp; Writing images.

import cv2

img = cv2.imread("galaxy.jpg", 0)

print (type(img))

print (img)

print (img.shape)

print (img.ndim)

cv2.imshow("Galaxy", img)

cv2.waitKey(0)

cv2.destroyAllWindows()

Write a script that resizes all images in a directory to 100x100. You can find an attached ZIP file with some images.

```
→ import cv2
import glob
images = glob.glob("*.jpg")
for image in images:
    img = cv2.imread(image)
    re = cv2.resize(img, (100, 100))
    cv2.waitKey(50)
    cv2.destroyAllWindows()
    cv2.imwrite("resized_" + image, re)
```