# Pillow Module

To manipulate images

## How to show an image?

from PIL import Image

img = Image.open('pic1.jpg')  # creating an object of the image

img.show()  # to show the image

## How to convert a list of JPG images to PNG images?

for f in os.listdir('.'):

    if f.endswith('.jpg'):

        img = Image.open(f)  # creating the image object

        fname, f\_ext = os.path.splitext(f)  # spliting the name and extension

        img.save(f'imgs/{fname}.png')  # saving the file in imgs directory

## How to convert a list of images to (300, 300) size and (700,700) size?

import os

from PIL import Image

for file in os.listdir('.'):

    if file.endswith('.jpg'):

        img = Image.open(file)

        f\_name, f\_ext = os.path.splitext(file)

        # converting images to (300, 300) and save it to 300 dir

        img.thumbnail((300, 300))

        img.save(f'300/{f\_name}.{f\_ext}')

        # converting images to (700, 700) and save it to 300 dir

        img.thumbnail((700, 700))

        img.save(f'700/{f\_name}.{f\_ext}')

## Other cool things to do with ‘Pillow’ library :

## How to ROTATE an image, make an image BLACK & WHITE, BLUR and image?

from PIL import Image, ImageFilter

import os

img = Image.open('img1.jpg')

# rotating the image

img.rotate(90).save('img1\_rotated.jpg')

# black and white the image

img.convert(mode='L').save('img1\_black&white.jpg')

# blur the image

img.filter(ImageFilter.GaussianBlur(15)).save('img1\_blured.jpg')