Assignment 14

Answers

1. RBGA stands for RED-GREEN-BLUE-ALPHA.
2. First import the image from the pillow library and then Open the image and get the RAGBAG values.

CODE : from PIL import Image

img=Image.open(‘image.png’)

rgba=img.convert(“RGBA”)

data=rgba.getdata()

The date which is shown above contains thousands of tuples of the RGBA values of the image and can be used to for various operations.

1. The box tuple allows the user to read-only operation for the tuple data type alone, It only allows a single tuple, The data which is extracted from the tuple can be used to do various uses and it can be used to convert tuple into the lua tables.There is a small list below.

|  |  |
| --- | --- |
| Name | Use |
| box.tuple.new() | Create a tuple |
| box.tuple.is() | Check whether a given object is a tuple or not |
| box.tuple.bsize() | Get count of bytes in a tuple |
| Stuple\_object[field-number] | Get a tuple field by specifying a number in it. |

1.Import required module

from PIL import Image

2.Then get image

filepath = "pic.png"

3.open the image

img = Image.open(filepath)

4.To get width and height of the image

width = img.width

height = img.height

5. display width and height

print("The height of the image is: ", height)

print("The width of the image is: ", width)

1. First, we have to use pillow as image library and use resize. We can use the crop(left,upper,right,lower) which should contains the 4-tuple that defines the left ,upper, right and bottom edges of the region of the image.

Crop(0,0,0,50) gives the image by excluding the lower-left quarter.

1. **Image.save()** Saves the image under the given filename. If there is no format given, then format to use is determined from the filename extension.

**For example:**

from PIL import Image

image = Image.open(' "C:\Users\sivat\Desktop\Screenshot 2023-02-20 070709.jpg")

image\_crop = image.crop((60, 20, 400, 200))

image\_crop.save(""C:\Users\sivat\Desktop\MSZW4400x-75.jpg", quality=95)

1. ImageDraw
2. Image objects doesn’t have drawing methods but pillow is a third-party python module for interacting with image files. The module has several functions which are very easy to crop, resize and edit the content which is present in the image.