1. What does RGBA stand for?

RGBA(Red-Green-Blue-Alpha)

The RGB color model is extended in this specification to include “alpha” to allow specification of the opacity of a color.

1. From the Pillow module, how do you get the RGBA value of any images?

Pillow offers the ImageColor. getcolor() function so you don't have to memorize RGBA values for the colors you want to use. This function takes a color name string as its first argument, and the string 'RGBA' as its second argument, and it returns an RGBA tuple.

1. What is a box tuple, and how does it work?

The box. tuple submodule provides read-only access for the tuple userdata type. It allows, for a single tuple: selective retrieval of the field contents, retrieval of information about size, iteration over all the fields, and conversion to a Lua table.

1. Use your image and load in notebook then, How can you find out the width and height of an Image object?

from PIL import Image

# get image

filepath = "jpg\_19.jpg"

img = Image.open(filepath)

# get width and height

width = img.width

height = img.height

# display width and height

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

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

5. What method would you call to get Image object for a 100×100 image, excluding the lower-left quarter of it?

from PIL import Image

# get image

filepath = "jpg\_19.jpg"

img = Image.open(filepath)

cropped = img.crop((0,50,50,100))

cropped.show()

1. After making changes to an Image object, how could you save it as an image file?

Img.save() function

1. What module contains Pillow’s shape-drawing code?

# Importing Image and ImageDraw from PIL

from PIL import Image, ImageDraw

# Opening the image to be used

img = Image.open('radha.png')

# Creating a Draw object

draw = ImageDraw.Draw(img)

# Drawing a green rectangle

# in the middle of the image

draw.rectangle(xy = (50, 50, 150, 150),

               fill = (0, 127, 0),

               outline = (255, 255, 255),

               width = 5)

# Method to display the modified image

img.show()

1. Image objects do not have drawing methods. What kind of object does? How do you get this kind of object?

It will pixel pictures. Draw pixel on it to create shape. Image.new() can create this kind of objects.