1. What does RGBA stand for?

Answer:

Red, Green, Blue and Alpha. The RBGA value is an integer ranging from 0 to 255. In Pillow, the RGBA values are represented by a tuple of 4 integers.

For example, color Red is represented as (255, 0, 0, 255).

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

Answer:

In pillow, we can use ImageColor.getcolor() function to get the RGBA values for the color we want to use.

For example,

from PIL import ImageColor

ImageColor.getcolor(‘red’, ‘RGBA’)

>>> (255, 0, 0, 255)

ImageColor.getcolor(‘green’, ‘RGBA’)

>>> (0, 255, 0, 255)

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

Answer:

Many Pillow functions takes box tuple argument which means it takes a tuple of four integer coordinates that represents a rectangular region in an image. For example, **(3, 1, 9, 6)**

The four integers are,

Left – x coordinate. Leftmost edge of the box.

Top – y coordinate. Top edge of the box.

Right – x coordinate of one pixel right to the rightmost edge of the box. This integer must be larger than left integer.

Bottom – y coordinate of one pixel lower of bottom edge of the box. This integer must be larger than top integer.

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

Answer:

The property called **size(),**  gives the width and height of the image object.

For example,

>>> from PIL import Image

>>> imgObj = Image.open(“sampleImg.png”)

>>>imgObj.size

(816, 1088)

#816 – width

#1088 – height

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

Answer:

>>> from PIL import Image

>>> image = Image.new(“RGB”, (100, 100), “white”)

>>> image.paste(“black”, (0,50,50,100)) #exclude lower-left quarter

>>> image.show()

Alternatively,

>>>image.crop((0, 50, 50, 100)) #crops the lower-left quarter

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

Answer:

The method save() can be used to save the image file.

For example,

ImageObject.save(‘fileName.png’)

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

Answer:

The ImageDraw module contains shape drawing code.

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

Answer:

The ImageDraw object have the drawing methods. They are returned by the ImageDraw.Draw() method which takes the image as input.

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