ASSIGNMENT - 14

1. What does RGBA stand for?

Ans: *RGBA is a four-channel format containing data for Red, Green, Blue, and an Alpha value. Where Alpha Represents the Opacity.*

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

Ans: *ImageColor.getcolor() gives rgba value of any image*

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

Ans: *A box tuple is a tuple value of four integers: the left-edge x-coordinate, the top-edge y-coordinate,the width, and the height, respectively.*

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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?

Ans: *#Example Program*

*from PIL import Image*

*pic = Image.open('Pic.jpg')*

*print(f'Width, Height -> {pic.size}') # Approach 1*

*print(f'Width, Height -> {pic.width},{pic.height}') # Approach 2*

*width,height = pic.size*

*print(f'Width, Height -> {width},{height}') # Approach 3*

*Width, Height -> (287, 70)*

*Width, Height -> 287,70*

*Width, Height -> 287,70*

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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?

Ans:

*from PIL import Image*

*img = Image.open('Pic.jpg')*

*new\_img = img.crop((0,50,50,50))*

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

Ans:

*from PIL import Image*

*pic = Image.open('pic.jpg')*

*pic.save('pic2.jpg')*

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

Ans: *Pillows ImageDraw module contains Shape drawing methods*

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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?

Ans: *ImageDraw objects have shape-drawing methods such as point(), line(), or rectangle().They are returned by passing the Image object to the ImageDraw.Draw() function.*

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