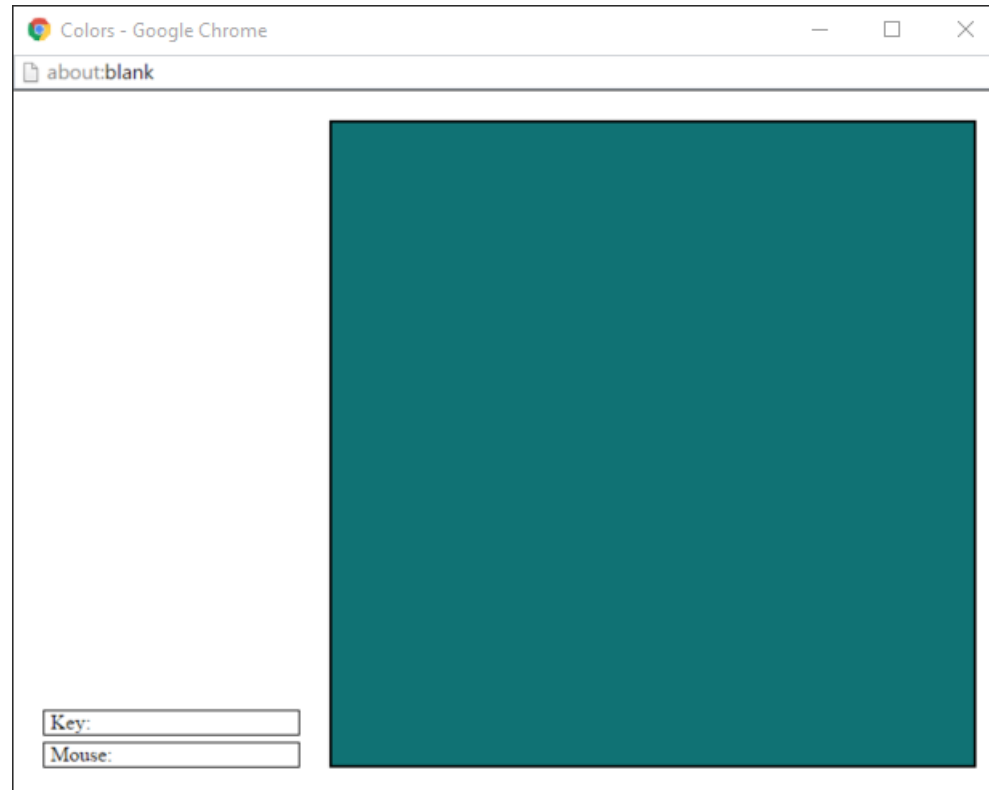


Unit 2 – Lesson 6: Color Code

Try it:



The code is in the online site for you to run and try.

Color

```
r = random.randint(0, 255)
```

```
g = random.randint(0, 255)
```

```
b = random.randint(0, 255)
```

- these represent red, green and blue

RGB Colors

- Stands for Red, Green and Blue
- Lets us mix exact amount of these three colors
- Each number is between 0 and 255
 - 0 → color is off
 - 255 → color is all the way on

RGB

- Ex: Purple is red and blue, so RGB(200, 0, 180) will be a shade of purple
- White: RGB(255, 255, 255)
- Black: RGB (0, 0, 0)

Gray in RGB

- Gray \rightarrow red, green and blue are equal
- Which is a darker gray: RGB (20, 20, 20) or RGB (200, 200, 200)?

Yellow

- Mix of Red and Green
- RGB (255, 255, 0)

So what it this doing?

```
randRGBColor = "RGB( " + str(r) + ", "  
                + str(g) + ", "  
                + str(b) + ") "
```

```
frame.set_canvas_background(randRGBColor)
```


Built in colors:

Using color from HTML – some basics

- 'Aqua'
- 'Black'
- 'Blue'
- 'Fuchsia'
- 'Gray'
- 'Green'
- 'Lime'
- 'Maroon'
- 'Navy'
- 'Olive'
- 'Orange'
- 'Purple'
- 'Red'
- 'Silver'
- 'Teal'
- 'White'
- 'Yellow'

Can also use Hex colors

http://www.w3schools.com/tags/ref_colorpicker.asp

Vocabulary

RGB	Command used to mix colors – red, green and blue.
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