



[Course](#) > [OpenCV Course Co...](#) > [Getting started wit...](#) > Quiz



## > Quiz

### Question 1

1.0/1.0 point (graded)

What happens if the filename specified in **cv2.imwrite** already exists?

☐ An error is raised

☒ The existing file is overwritten ✓

☐ A new file is created

☐ None of the above

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You have used 1 of 2 attempts

### Question 2

1.0/1.0 point (graded)

Given a colored image **image.jpeg** which of these will result in an error?

☐ `img = cv2.imread("image.jpeg", 0)`

`img = cv2.cvtColor(img, cv2.COLOR_GRAY2BGR)`

☐ `img = cv2.imread("image.jpeg", 1)`

`img = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)`



☐ `img = cv2.imread("image.jpeg", 1)`  
`img = cv2.cvtColor(img, cv2.COLOR_BGR2RGB)`

☒ `img = cv2.imread("image.jpeg", 0)`  
`img = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)` ✓

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### Question 3

1.0/1.0 point (graded)

What is the difference between **`cv2.IMREAD_COLOR`** and **`cv2.IMREAD_GRAYSCALE`**?

☐ **`cv2.IMREAD_COLOR`** reads the image as a grayscale image, while **`cv2.IMREAD_GRAYSCALE`** reads the image as a color image.

☒ **`cv2.IMREAD_GRAYSCALE`** reads the image as a grayscale image, while **`cv2.IMREAD_COLOR`** reads the image as a color image. ✓

☐ There is no difference between **`cv2.IMREAD_COLOR`** and **`cv2.IMREAD_GRAYSCALE`**

☐ None of the above

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### Question 4

1.0/1.0 point (graded)

What is the purpose of the **cv2.cvtColor()** function?

☒ To convert an image from one color space to another. ✓

☐ To resize an image.

☐ To crop an image.

☐ To apply a filter to an image.

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You have used 1 of 2 attempts

## Question 5

0.0/1.0 point (graded)

What is the return type of **plt.imshow()** of **Matplotlib**?

☐ matplotlib.image.AxesImage object

☒ NumPy array ✗

☐ PIL Image object

☐ None of the above

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You have used 2 of 2 attempts

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