

Data Structures Algorithms Interview Preparation Topic-wise Practice C++ Java Python

method

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OpenCV-Python is a library of Python bindings designed to solve computer vision problems. cv2.copyMakeBorder() method is used to create a border around the image like a photo frame.

Syntax: cv2.copyMakeBorder(src, top, bottom, left, right, borderType, value)

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Parameters:

src: It is the source image.

top: It is the border width in number of pixels in top direction.

bottom: It is the border width in number of pixels in bottom direction.

left: It is the border width in number of pixels in left direction.

right: It is the border width in number of pixels in right direction.

borderType: It depicts what kind of border to be added. It is defined by flags like cv 2.BORDER_CONSTANT, cv2.BORDER_REFLECT, etc dest: It is the destination imag

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value: It is an optional parameter which depicts color of border if border type is cv 2.BORDER CONSTANT.

Return Value: It returns an image.

The borderType flags are described below:

cv2.BORDER_CONSTANT: It adds a constant colored border. The value should be given as a keyword argument

cv2.BORDER_REFLECT: The border will be mirror reflection of the border element s. Suppose, if image contains letters "abcdefg" then output will be "gfedcba|abcdefg|gfedcba".

cv2.BORDER_REFLECT_101 or cv2.BORDER_DEFAULT: It does the same works as c v2.BORDER_REFLECT but with slight change. Suppose, if image contains letters "a bcdefgh" then output will be "gfedcb|abcdefgh|gfedcba".

cv2.BORDER_REPLICATE: It replicates the last element. Suppose, if image contains letters "abcdefgh" then output will be "aaaaa|abcdefgh|hhhhh".

Image used for all the below examples:





Example #1:

Python3

```
# Python program to explain cv2.copyMakeBorder() method

# importing cv2
import cv2

# path
path = r'C:\Users\Rajnish\Desktop\geeksforgeeks\geeks.png'

# Reading an image in default mode
image = cv2.imread(path)

# Window name in which image is displayed
window_name = 'Image'

# Using cv2.copyMakeBorder() method
image = cv2.copyMakeBorder(image, 10, 10, 10, 10, cv2.BORDER_CONSTANT, None, value =

# Displaying the image
cv2.imshow(window_name, image)
```

ıtput:



Example #2:

Python3

```
# Python program to explain cv2.copyMakeBorder() method

# importing cv2
import cv2

# path
path = r'C:\Users\Rajnish\Desktop\geeksforgeeks\geeks.png'

# Reading an image in default mode
image = cv2.imread(path)

# Window name in which image is displayed
window_name = 'Image'

# Using cv2.copyMakeBorder() method
image = cv2.copyMakeBorder(image, 100, 100, 50, 50, cv2.BORDER_REFLECT)

# Displaying the image
cv2.imshow(window_name, image)
```

Output:



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