OpenCV & Python - Image too big to display

I have an image that is 6400 × 3200, while my screen is 1280 x 800. Therefore, the image needs to be resized for display only. I am using Python and OpenCV 2.4.9. According to OpenCV Documentation,

> If you need to show an image that is bigger than the screen resolution, you will need to call namedWindow("", WINDOW_NORMAL) before the imshow.

That is what I am doing, but the image is not fitted to the screen, only a portion is shown because it's too big. I've also tried with cv2.resizeWindow, but it doesn't make any difference.

```
import cv2
cv2.namedWindow("output", cv2.WINDOW_NORMAL)        # Create window with freedom of
dimensions
# cv2.resizeWindow("output", 400, 300)              # Resize window to specified
dimensions
im = cv2.imread("earth.jpg")                        # Read image
cv2.imshow("output", im)                            # Show image
cv2.waitKey(0)                                      # Display the image infinitely until
any keypress
```

411 1 3 10

you should be able to resize image window by pointing cursor to the window borders – orkan Feb 3 '16 at 15:38

thanks for your reply, but when I do that, it resizes the window but not the image (the image is not fully displayed). And even if it worked, it's still not ideal since I have to drag the borders many times to finally fit it on the screen, and also this is aimed to be reading continuously from a webcam, I don't want the user to be resizing the window manually. – Zynk Feb 3 '16 at 16:00

Then just resize the image you're showing to your desired dimension – Miki Feb 3 '16 at 16:01

Thanks, @Miki, I decided to do that. I had not done that before because OpenCV documentation claims to fit it to the screen automatically as in the link I provided, but that was not happening and that was what I wanted to solve. But resizing is fine too, I guess. – Zynk Feb 3 '16 at 17:00

I think you should do something like this – Ar Win Dec 26 '17 at 12:21

3 Answers

Although I was expecting an automatic solution (fitting to the screen automatically), resizing solves the problem as well.

```
import cv2
cv2.namedWindow("output", cv2.WINDOW_NORMAL)        # Create win
dimensions
im = cv2.imread("earth.jpg")                        # Read image
imS = cv2.resize(im, (960, 540))                    # Resize ima
cv2.imshow("output", imS)                            # Show imag
cv2.waitKey(0)                                      # Display th
```

answered Feb 3 '16 at 17:02

Zynk
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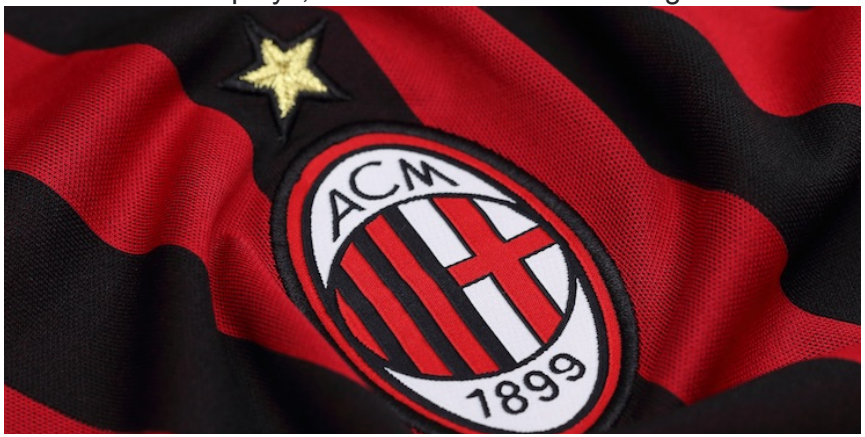
1 it's probably cv2.imshow("output", **imS**) – Miki Feb 3 '16 at 17:08

Yes, my mistake, I have it correctly on my code, but not here. Thanks – Zynk Feb 4 '16 at 9:05

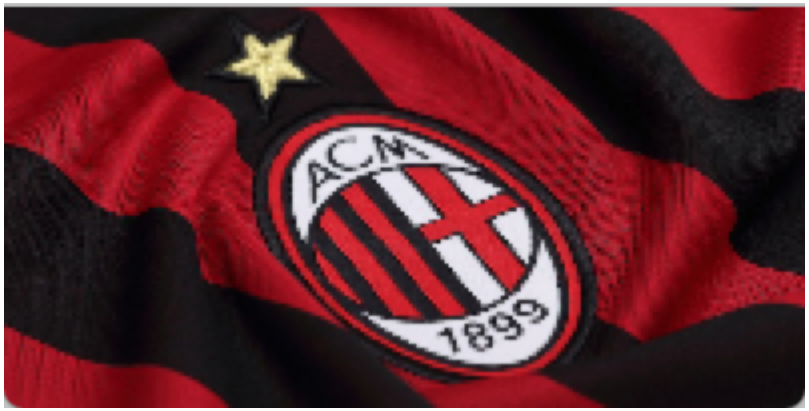
In opencv, cv.namedWindow() just creates a window object as you determine, but not resizing the original image. You can use cv2.resize(img, resolution) to solve the problem.

Here's what it displays, a 740 * 411 resolution image.



```
cv2.waitKey(0)
cv2.destroyAllWindows()
```

Here, it displays a 100 * 200 resolution image after resizing. Remember the resolution parameter use column first then is row.




```
image = cv2.imread("740*411.jpg")
image = cv2.resize(image, (200, 100))
cv2.imshow("image", image)
cv2.waitKey(0)
cv2.destroyAllWindows()
```

edited May 11 at 5:58

Prateek
1,804 3 11 26

answered May 8 at 16:00

FrancisYL
1 2

Welcome to Stackoverflow.com Please use formatting tools within post form to make your post more readable. Image should be uploaded as image not a link. Prateek May 8 at 16:08

Prateek May 11 at 5:41

Got it. Thank you very much – FrancisYL May 11 at 23:52

Try this:

```
image = cv2.imread("img/Demo.jpg")
image = cv2.resize(image,(240,240))
```

The `image` is now resized. Displaying it will render in 240x240.

edited 2 days ago

progyammer
1,233 3 9 23

answered Oct 7 at 13:36

MARTIN ALEXIS SAMAN ARATA
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New contributor