图片处理

- 1.读入图像
- 2.显示图像
- 3.保存图像

1.读入图像

- retval = cv2.imread(文件名[,显示控制参数])

文件名

完整文件名

参数

cv.IMREAD_UNCHANGED

cv.IMREAD_GRAYSCALE

cv.IMREAD_COLOR

1.读入图像

- retval = cv2.imread(文件名[,显示控制参数])

  范例

```
img=cv2.imread("d:\\image.jpg")
```

官方文档

§ ImreadModes

enum **cv::ImreadModes**

Imread flags.

Enumerator	
IMREAD_UNCHANGED Python: cv.IMREAD_UNCHANGED	If set, return the loaded image as is (with alpha channel, otherwise it gets cropped).
IMREAD_GRAYSCALE Python: cv.IMREAD_GRAYSCALE	If set, always convert image to the single channel grayscale image.
IMREAD_COLOR Python: cv.IMREAD_COLOR	If set, always convert image to the 3 channel BGR color image.
IMREAD_ANYDEPTH Python: cv.IMREAD_ANYDEPTH	If set, return 16-bit/32-bit image when the input has the corresponding depth, otherwise convert it to 8-bit.
IMREAD_ANYCOLOR Python: cv.IMREAD_ANYCOLOR	If set, the image is read in any possible color format.
IMREAD_LOAD_GDAL Python: cv.IMREAD_LOAD_GDAL	If set, use the gdal driver for loading the image.
IMREAD_REDUCED_GRAYSCALE_2 Python: cv.IMREAD_REDUCED_GRAYSCALE_2	If set, always convert image to the single channel grayscale image and the image size reduced 1/2.
IMREAD_REDUCED_COLOR_2 Python: cv.IMREAD_REDUCED_COLOR_2	If set, always convert image to the 3 channel BGR color image and the image size reduced 1/2.
IMREAD_REDUCED_GRAYSCALE_4 Python: cv.IMREAD_REDUCED_GRAYSCALE_4	If set, always convert image to the single channel grayscale image and the image size reduced 1/4.
IMREAD_REDUCED_COLOR_4 Python: cv.IMREAD_REDUCED_COLOR_4	If set, always convert image to the 3 channel BGR color image and the image size reduced 1/4.
IMREAD_REDUCED_GRAYSCALE_8 Python: cv.IMREAD_REDUCED_GRAYSCALE_8	If set, always convert image to the single channel grayscale image and the image size reduced 1/8.
IMREAD_REDUCED_COLOR_8 Python: cv.IMREAD_REDUCED_COLOR_8	If set, always convert image to the 3 channel BGR color image and the image size reduced 1/8.
IMREAD_IGNORE_ORIENTATION Python: cv.IMREAD_IGNORE_ORIENTATION	If set, do not rotate the image according to EXIF's orientation flag.

2.显示图像

- None = cv2.imshow(窗口名,图像名)
- 范例：

CV2.IMSHOW(“DEMO”,IMAGE)

2.显示图像

- retval = cv2.waitKey([, delay])
- delay：

DELAY>0　等待DELAY毫秒

DELAY<0　等待键盘单击

DELAY=0　无限等待

2.显示图像

- retval = cv2.waitKey([, delay])
- 范例：

```
CV2.WAITKEY(0)
```

2.显示图像

- cv2.destroyAllWindows()
- 功能：

  删除所有窗口

3.保存图像

- retval=cv2.imwrite(文件地址，文件名)
- 范例：

```
cv2.imwrite(  ‘D:\\test.jpg',img)
```

OpenCV+Python图像处理

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