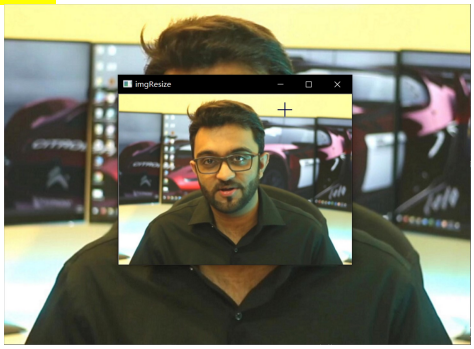
CHAPTER3

Wednesday, October 13, 2021 3:29 PM

1.改变图像尺寸 resize()




```
#include"headler.h"

void main()
{
	string path = "F:\\C++_Study_project\\opencv_project\\C++_opencvCourse\\C++_opencvCourse
	\\resource\\test.png";
	Mat img = imread(path);
	Mat imgResize;

	cout << img.size() << endl;                    //检测图片大小
	resize(img, imgResize,Size(640,480));          //改变图像大小至640*480
	resize(img, imgResize, Size(),0.5,0.5);        //同比缩放

	imshow("image", img);
	imshow("imgResize", imgResize);
	waitKey(0);
}
```

2.裁剪图像---ROI(感兴趣区域)

我们可以将存在特征之类的区域裁剪出来再做更进一步的运算。

```
#include"headler.h"

void main()
{
```

```
    string path = "F:\\C++_Study_project\\opencv_project\\C++_opencvCourse\\C++_opencvCourse\\resource\\test.png";
    Mat img = imread(path);
    Mat imgResize,imgCrop;

    cout << img.size() << endl;//检测图片大小
    //resize(img, imgResize,Size(640,480)); //改变图像大小至640*480
    resize(img, imgResize, Size(),0.5,0.5);//同比缩放

    Rect roi(100, 100, 300, 250); //要定义x,y的宽度和高度,此处为从100这个点向前（右）300个像素点，向下250个像素点
    imgCrop = img(roi); //定义裁剪的值，要用矩阵类型(Rect)

    imshow("image", img);
    imshow("imgResize", imgResize);
    imshow("imCrop", imgCrop);
    waitKey(0);
}
```