

C# 人脸识别第一步，OpenCvSharp打开摄像头

原创

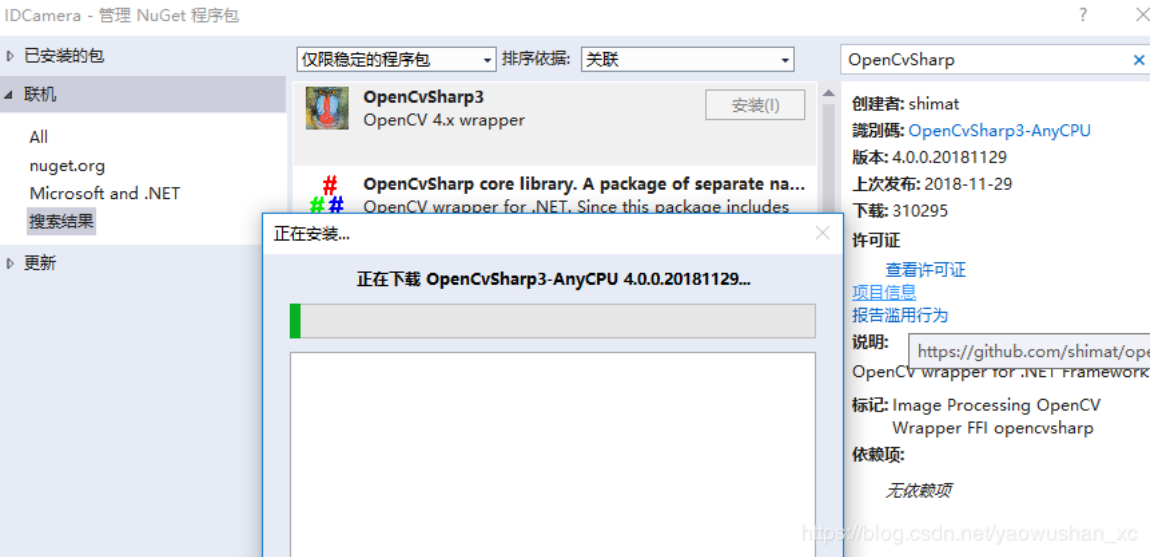
展开



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首先下载安装OpenCvSharp。



添加引用后就可以开始写代码了。打开关闭摄像头：

```
private void btn_play_Click(object sender, EventArgs e)
{
    if (!bPlayflag)
    {
        m_vCapture = new VideoCapture(CaptureDevice.Any);
        if (!m_vCapture.IsOpened())
        {
            MessageBox.Show("摄像头打不开", "摄像头故障", MessageBoxButtons.OK, MessageBoxIcon.Error);
            return;
        }
        m_vCapture.Set(CaptureProperty.FrameWidth, 640); // 宽度
        m_vCapture.Set(CaptureProperty.FrameHeight, 480); // 高度

        bPlayflag = true;
        ThreadCam = new Thread(Play_Camera);
        ThreadCam.Start();

        pic_cam.Image = null;
        btn_play.Text = "关闭摄像头";
    }
    else
    {
        bPlayflag = false;
        ThreadCam.Abort();
        m_vCapture.Release();
        btn_play.Text = "打开摄像头";
    }
}
```

播放摄像头线程：

```
private void Play_Camera()
{
    // ...
}
```

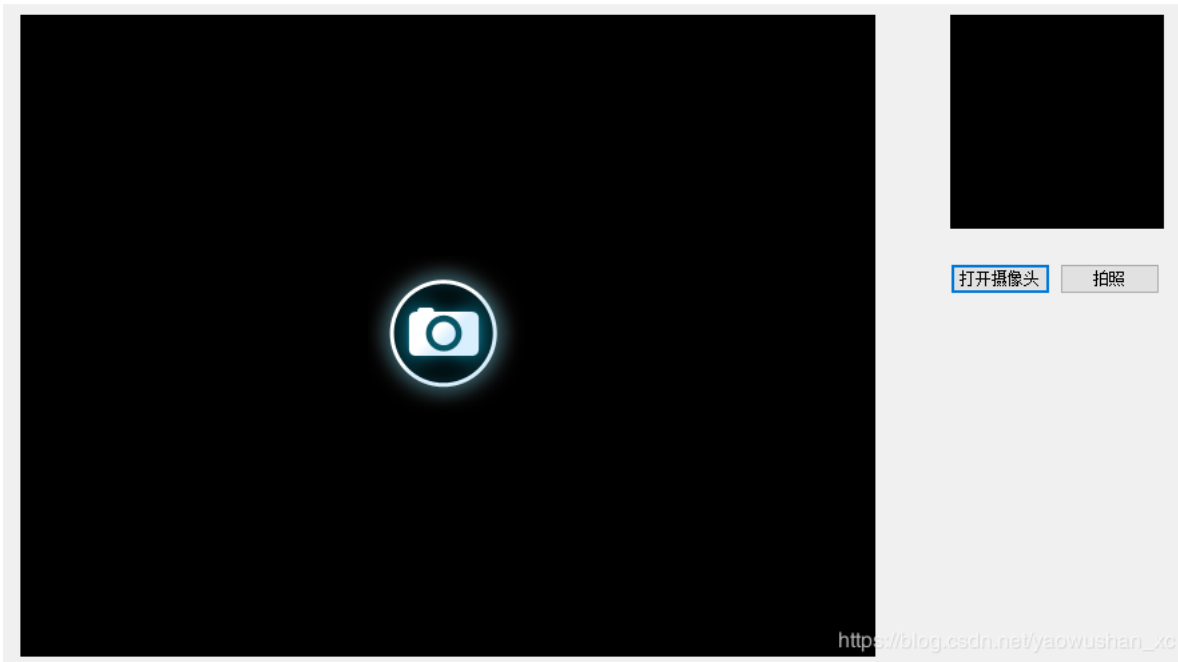
```
while (bPlayflag)
{
    //Thread.Sleep(40);
    Mat cFrame = new Mat();
    m_vCapture.Read(cFrame);
    int sleepTime = (int)Math.Round(1000 / m_vCapture.Fps);
    Cv2.WaitKey(sleepTime);

    if (cFrame.Empty())
    {
        continue;
    }
    Cv2.Flip(cFrame, cFrame, OpenCvSharp.FlipMode.Y);
    Rect cMaxrect = new Rect(170, 90, 300, 300);
    if (bTakePicture)//拍照, 截取指定区域
    {
        Mat cHead = new Mat(cFrame, cMaxrect);
        Cv2.ImWrite(PicSavePath, cHead);
        SetPictureBoxImage(pic_head, cHead.ToBitmap());
        cHead.Release();
        bTakePicture = false;
    }
    //绘制指定区域(人脸框)
    Scalar color = new Scalar(0, 100, 0);
    Cv2.Rectangle(cFrame, cMaxrect, color, 2);

    SetPictureBoxImage(pic_cam, cFrame.ToBitmap());

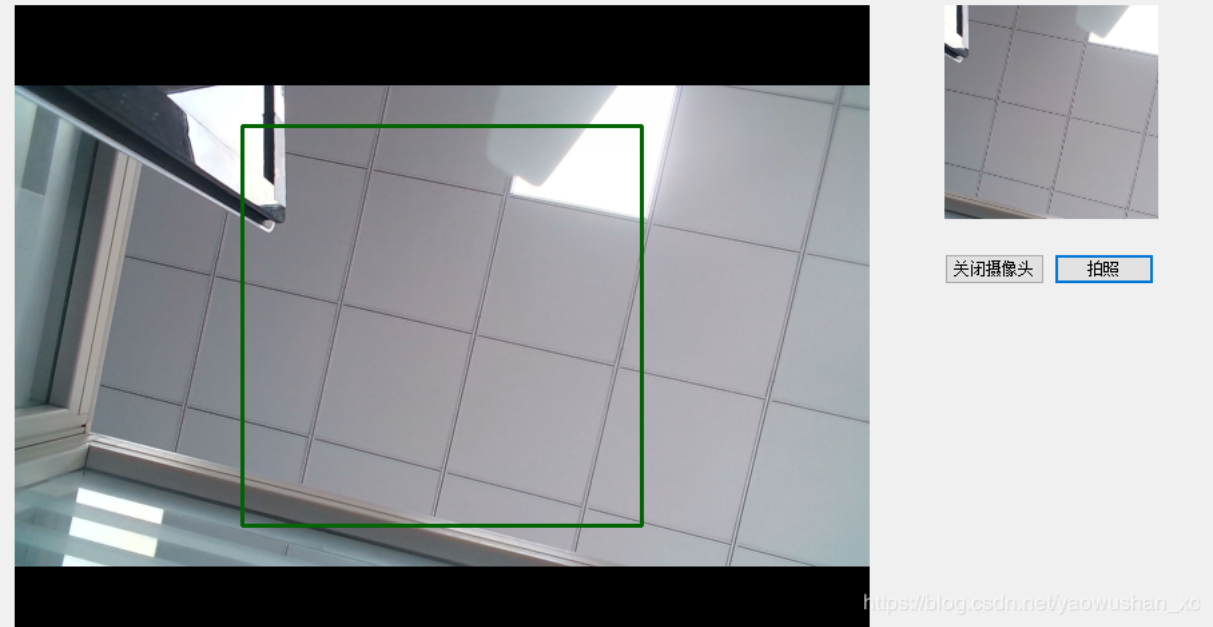
    cFrame.Release();//释放
}
```

摄像头




摄像头


— □ ×




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