



hanwen76

Rename camera2YUV.md to solution.md



1 contributor

17 lines (17 sloc) | 979 Bytes



将摄像头采集的数据存成YUV文件

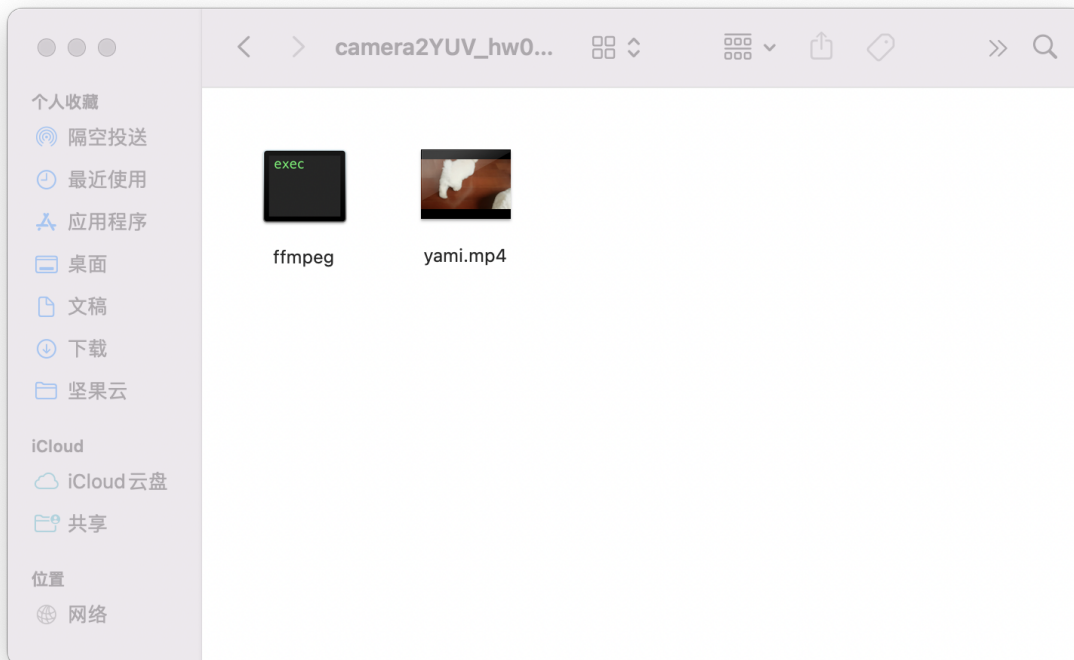
作者：张瀚文 2201212865

要求：

- 帧率：15fps
- 尺寸：320x2440
- 色度格式：4:2:0

步骤：

1. 下载ffmpeg格式转换工具 <https://ffmpeg.org/about.html>
2. 在ffmpeg目录下打开终端，并把需要转换格式的视频存储在这个目录下方便操作，命名为yami.mp4



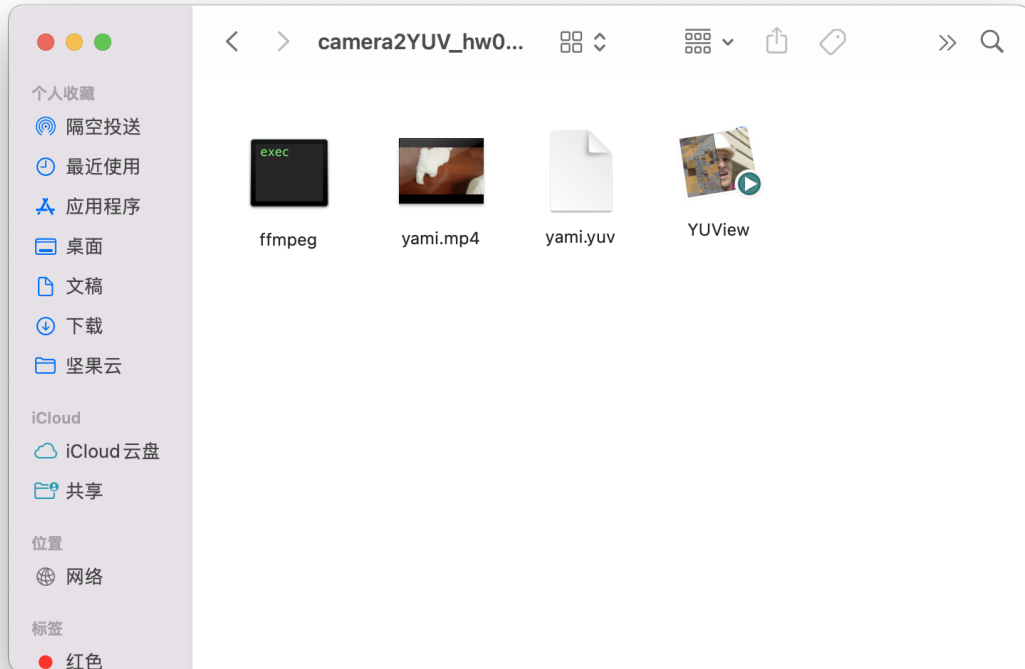
3. 在终端输入视频格式转换的指令 `./ffmpeg -i yami.mp4 -s 320x240 -pix_fmt yuv420p -r 15 yami.yuv`
4. 运行指令，可以观察到目录下新生成的yami.yuv文件

```

camera2YUV_hw0914 -- zsh -- 88x26

Last login: Wed Sep 14 21:39:58 on ttys000
[zhanganwen@zhanganwendeMacBook-Air ~ % cd Desktop
[zhanganwen@zhanganwendeMacBook-Air Desktop % ls
2022 lect2-the math of machine learning.pdf
DMT
Deepfakes
Gloria_2022
YUView.app
preparation.png
yami.yuv
[zhanganwen@zhanganwendeMacBook-Air Desktop % cd DMT
[zhanganwen@zhanganwendeMacBook-Air DMT % ls
camera2YUV_hw0914
[zhanganwen@zhanganwendeMacBook-Air DMT % cd camera2YUV_hw0914
[zhanganwen@zhanganwendeMacBook-Air camera2YUV_hw0914 % ls
ffmpeg          yami.mp4
[zhanganwen@zhanganwendeMacBook-Air camera2YUV_hw0914 % ./ffmpeg -i yami.mp4 -s 320x240
-pix_fmt yuv420p -r 15 yami.yuv
ffmpeg version N-108102-g60d8c2019f-tessus Copyright (c) 2000-2022 the FFmpeg developers
built with Apple clang version 11.0.0 (clang-1100.0.33.17)
configuration: --cc=/usr/bin/clang --prefix=/opt/ffmpeg --extra-version=tessus --enabl
e-avisynth --enable-fontconfig --enable-gpl --enable-libaom --enable-libass --enable-lib
bluray --enable-libdav1d --enable-libfreetype --enable-libgsm --enable-libmodplug --enabl
le-libmp3lame --enable-libmysofa --enable-libopenh264 --enable-libopenjpeg --enable-libopus --enable-librubberband --enabl
e-libshine --enable-libsnappp --enable-libsoxr --enable-libspeex --enable-libtheora --en

```



5. 下载YUView，播放YUV格式的视频，检验格式是否转换成功;播放时注意设置好尺寸和色度格式

