15-ffmpeg命令视频录制

主讲人：廖庆富
日　期：2019/02/08

15-ffmpeg命令视频录制(Windows)

■ 先安装**dshow**软件 Screen Capturer Recorder，

项目地址：**https://sourceforge.net/projects/screencapturer/files/**

然后查看可用设备名字：ffmpeg -list_devices true -f dshow -i dummy

[dshow @ 0509d6c0] **DirectShow video devices** (some may be both video and audio devices)

[dshow @ 0509d6c0] "Integrated Webcam" //笔记本摄像头

[dshow @ 0509d6c0]   Alternative name

"@device_pnp_\\?\usb#vid_0bda&pid_5689&mi_00#6&233dd6c7&0&0000#{65e8773d-8f56-11

d0-a3b9-00a0c9223196}\global"

[dshow @ 0509d6c0] "e2eSoft VCam"

[dshow @ 0509d6c0]   Alternative name "@device_sw_{860BB310-5D01-11D0-BD3B-00A0C911CE86}\e2eSoft

VCam"

[dshow @ 0509d6c0] **"screen-capture-recorder"**

[dshow @ 0509d6c0]   Alternative name "@device_sw_{860BB310-5D01-11D0-BD3B-

00A0C911CE86}\{4EA6930A-2C8A-4AE6-A561-56E4

B5044439}"

[dshow @ 0509d6c0] **DirectShow audio devices**

[dshow @ 0509d6c0] **"楹～厕椋?(Realtek Audio)"**

[dshow @ 0509d6c0]   Alternative name "@device_cm_{33D9A762-90C8-11D0-BD43-

00A0C911CE86}\wave_{8B8892E5-D3E5-47EC-8B5E

-CEEBF54014E7}"

[dshow @ 0509d6c0] **"virtual-audio-capturer"**

[dshow @ 0509d6c0]   Alternative name "@device_sw_{33D9A762-90C8-11D0-BD43-

00A0C911CE86}\{8E14549B-DB61-4309-AFA1-3578

E927E935}"

dummy: Immediate exit requested

音视频录制

- 录制视频（默认参数）

   桌面：ffmpeg -f dshow -i video="screen-capture-recorder" v-out.mp4

   摄像头： ffmpeg -f dshow -i video="Integrated Webcam" -y v-out2.flv (要根据自己摄像头名称)

- 录制声音（默认参数）

   系统声音：ffmpeg -f dshow -i audio="virtual-audio-capturer" a-out.aac

   系统+麦克风声音：ffmpeg -f dshow -i audio="麦克风 (Realtek Audio)" -f dshow -i audio="virtual-audio-capturer" -filter_complex amix=inputs=2:duration=first:dropout_transition=2 a-out2.aac

- 同时录制声音和视频（默认参数）

   ffmpeg -f dshow -i audio="麦克风 (Realtek Audio)" -f dshow -i audio="virtual-audio-capturer" -filter_complex amix=inputs=2:duration=first:dropout_transition=2 -f dshow -i video="screen-capture-recorder" -y av-out.flv

查看视频录制的可选参数

- 查看视频录制的可选参数

- ffmpeg -f dshow -list_options true -i video="screen-capture-recorder"

[dshow @ 02f0d6c0] DirectShow video device options (from video devices)
[dshow @ 02f0d6c0] Pin "Capture" (alternative pin name "1")
[dshow @ 02f0d6c0]   pixel_format=bgr0 min s=1x1 fps=0.02 max s=1920x1080 fps=30
[dshow @ 02f0d6c0]   pixel_format=bgr0 min s=1x1 fps=0.02 max s=1920x1080 fps=30
[dshow @ 02f0d6c0]   pixel_format=bgr24 min s=1x1 fps=0.02 max s=1920x1080 fps=30
[dshow @ 02f0d6c0]   pixel_format=rgb555le min s=1x1 fps=0.02 max s=1920x1080 fps=30
[dshow @ 02f0d6c0]   pixel_format=rgb555le min s=1x1 fps=0.02 max s=1920x1080 fps=30
[dshow @ 02f0d6c0]   pixel_format=rgb8 min s=1x1 fps=0.02 max s=1920x1080 fps=30
[dshow @ 02f0d6c0]   pixel_format=yuv420p min s=1x1 fps=0.02 max s=1920x1080 fps=30

查看音频设备可选参数

- 查看视频录制的可选参数
- **ffmpeg -f dshow -list_options true -i audio="virtual-audio-capturer"**

[dshow @ 05a2d6c0] DirectShow audio only device options (from audio devices)
[dshow @ 05a2d6c0] Pin "Capture Virtual Audio Pin" (alternative pin name "1")
[dshow @ 05a2d6c0]   min ch=2 bits=16 rate= 48000 max ch=2 bits=16 rate= 48000

- **ffmpeg -f dshow -list_options true -i audio="麦克风 (Realtek Audio)"**

指定参数录制音视频

- ffmpeg -f dshow -i audio="麦克风 (Realtek Audio)" -f dshow -i audio="virtual-audio-capturer" -filter_complex amix=inputs=2:duration=first:dropout_transition=2 **-f dshow** -video_size 1920x1080 -framerate 15 -pixel_format yuv420p -i video="screen-capture-recorder" -vcodec h264_qsv -b:v 3M -y av-out.flv

- ffmpeg -f dshow -i audio="麦克风 (Realtek Audio)" -f dshow -i audio="virtual-audio-capturer" -filter_complex amix=inputs=2:duration=first:dropout_transition=2 -f dshow -i video="screen-capture-recorder" -vcodec h264_qsv -b:v 3M -r 15 -y av-out2.mp4

- ffmpeg -f dshow -i audio="麦克风 (Realtek Audio)" -f dshow -i audio="virtual-audio-capturer" -filter_complex amix=inputs=2:duration=first:dropout_transition=2 -f dshow -framerate 15 -pixel_format yuv420p -i video="screen-capture-recorder" -vcodec h264_qsv -b:v 3M -r 15 -y av-out3.mp4