

Daniel Mateos Manjón

Capturas S2 SCAV

Ejercicio 1

```
dani@dani-System-Product-Name: ~/Escritorio/S2
2560kB time=00:00:11.92 bitrate=1758.2kbits/frame= 357 fps=119 q=31.0 size= 3328kB time=00:00:15.12 bitrate=1803.1kbits/frame= 436
fps=124 q=31.0 size= 3840kB time=00:00:18.36 bitrate=1713.4kbits/frame= 513 fps=128 q=31.0 size= 4608kB time=00:00:21.52 bitrate=
1753.5kbits/frame= 589 fps=130 q=31.0 size= 5120kB time=00:00:24.76 bitrate=1693.4kbits/frame= 666 fps=133 q=24.8 size= 5632kB ti
me=00:00:27.98 bitrate=1648.7kbits/frame= 720 fps=133 q=31.0 Lsize= 6393kB time=00:00:30.00 bitrate=1745.8kbits/s speed=5.53x
video:5868kB audio:469kB subtitle:0kB other streams:0kB global headers:0kB muxing overhead: 0.888837%
dani@dani-System-Product-Name:~/Escritorio/S2$ ffmpeg -i BBB.avi -ss 00:00:20 -t 00:00:10 -async 1 cut.avi
ffmpeg version N-100109-g7cf852b Copyright (c) 2000-2020 the FFmpeg developers
built with gcc 9 (Ubuntu 9.3.0-17ubuntu1~20.04)
configuration: --prefix=/home/dani/ffmpeg_build --pkg-config-flags=--static --extra-cflags=-I/home/dani/ffmpeg_build/include --extra-ld
flags=-L/home/dani/ffmpeg_build/lib --extra-libs='-lpthread -lm' --bindir=/home/dani/bin --enable-gpl --enable-gnutls --enable-libaom --e
nable-libass --enable-libfdk-aac --enable-libfreetype --enable-libmp3lame --enable-libopus --enable-libsvtav1 --enable-libvorbis --enable
-libvpx --enable-libx264 --enable-libx265 --enable-nonfree
libavutil 56. 61.100 / 56. 61.100
libavcodec 58.114.100 / 58.114.100
libavformat 58. 64.100 / 58. 64.100
libavdevice 58. 11.103 / 58. 11.103
libavfilter 7. 91.100 / 7. 91.100
libswscale 5. 8.100 / 5. 8.100
libswresample 3. 8.100 / 3. 8.100
libpostproc 55. 8.100 / 55. 8.100
Input #0, avi, from 'BBB.avi':
Metadata:
software : AVI-Mux GUI 1.17.7, Aug 8 2006 20:59:17
JUNK :
Duration: 00:09:56.46, start: 0.000000, bitrate: 12455 kb/s
Stream #0:0: Video: mpeg4 (Simple Profile) (FMP4 / 0x34504D46), yuv420p, 1920x1080 [SAR 1:1 DAR 16:9], 12001 kb/s, 24 fps, 24 tbr, 24
tbn, 24 tbc
Stream #0:1: Audio: ac3 ([0] [0] [0] / 0x2000), 48000 Hz, 5.1(side), fltp, 448 kb/s
Stream Mapping:
```

Ejercicio 2

```
dani@dani-System-Product-Name: ~/Escritorio/S2
dani@dani-System-Product-Name:~/Escritorio/S2$ ffplay cut.avi -vf "split=2[a][b],[b]histogram,format=yuva
444p[hh],[a][hh]overlay"
ffplay version N-100109-g7cf852b Copyright (c) 2003-2020 the FFmpeg developers
built with gcc 9 (Ubuntu 9.3.0-17ubuntu1~20.04)
configuration: --prefix=/home/dani/ffmpeg_build --pkg-config-flags=--static --extra-cflags=-I/home/dani
/ffmpeg_build/include --extra-ldflags=-L/home/dani/ffmpeg_build/lib --extra-libs='-lpthread -lm' --bindir
=/home/dani/bin --enable-gpl --enable-gnutls --enable-libaom --enable-libass --enable-libfdk-aac --enable
-libfreetype --enable-libmp3lame --enable-libopus --enable-libsvtav1 --enable-libvorbis --enable-libvpx -
-enable-libx264 --enable-libx265 --enable-nonfree
libavutil 56. 61.100 / 56. 61.100
libavcodec 58.114.100 / 58.114.100
libavformat 58. 64.100 / 58. 64.100
libavdevice 58. 11.103 / 58. 11.103
libavfilter 7. 91.100 / 7. 91.100
libswscale 5. 8.100 / 5. 8.100
libswresample 3. 8.100 / 3. 8.100
libpostproc 55. 8.100 / 55. 8.100
Input #0, avi, from 'cut.avi': 0KB vq= 0KB sq= 0B f=0/0
Metadata:
software : Lavf58.64.100
Duration: 00:00:10.04, start: 0.000000, bitrate: 1913 kb/s
Stream #0:0: Video: mpeg4 (Simple Profile) (FMP4 / 0x34504D46), yuv420p, 1920x1080 [SAR 1:1 DAR 16:9]
, 1772 kb/s, 24 fps, 24 tbr, 24 tbn, 24 tbc
Stream #0:1: Audio: mp3 (U[0][0][0] / 0x0055), 48000 Hz, stereo, fltp, 128 kb/s
2.98 A-V: -0.032 fd= 0 aq= 21KB vq= 212KB sq= 0B f=0/0
dani@dani-System-Product-Name:~/Escritorio/S2$
```

Ejercicio 3

(adjunto una sola captura, solo varían los valores del tamaño)

```
dani@dani-System-Product-Name: ~/Escritorio/S2
dani@dani-System-Product-Name:~/Escritorio/S2$ ffmpeg -i cut.avi -vf scale=720:480,setsar=1:1 cut720x480.avi
ffmpeg version N-100109-g7cf852b Copyright (c) 2000-2020 the FFmpeg developers
  built with gcc 9 (Ubuntu 9.3.0-17ubuntu1-20.04)
  configuration: --prefix=/home/dani/ffmpeg_build --pkg-config-flags=--static --extra-cflags=-I/home/dani/ffmpeg_build/include --extra-ldflags=-L/home/dani/ffmpeg_build/lib --extra-libs='-lpthread -lm' --bindir=/home/dani/bin --enable-gpl --enable-gnutls --enable-libaom --enable-libass --enable-libbdk-aac --enable-libfreetype --enable-libmp3lame --enable-libopus --enable-libsvtav1 --enable-libvorbis --enable-libvpx --enable-libx264 --enable-libx265 --enable-nonfree
  libavutil      56. 61.100 / 56. 61.100
  libavcodec     58.114.100 / 58.114.100
  libavformat    58. 64.100 / 58. 64.100
  libavdevice    58. 11.103 / 58. 11.103
  libavfilter    7. 91.100 / 7. 91.100
  libswscale     5.  8.100 / 5.  8.100
  libswresample  3.  8.100 / 3.  8.100
  libpostproc   55.  8.100 / 55.  8.100
Input #0, avi, from 'cut.avi':
  Metadata:
    software           : Lavf58.64.100
    Duration: 00:00:10.04, start: 0.000000, bitrate: 1913 kb/s
    Stream #0:0: Video: mpeg4 (Simple Profile) (FMP4 / 0x34504D46), yuv420p, 1920x1080 [SAR 1:1 DAR 16:9], 1772 kb/s, 24 fps, 24 tbr, 24 tbn, 24 tbc
    Stream #0:1: Audio: mp3 (U[0][0][0] / 0x0055), 48000 Hz, stereo, fltp, 128 kb/s
  Stream mapping:
    Stream #0:0 -> #0:0 (mpeg4 (native) -> mpeg4 (native))
    Stream #0:1 -> #0:1 (mp3 (mp3float) -> mp3 (libmp3lame))
  Press [q] to stop, [?] for help
Output #0, avi, to 'cut720x480.avi':
  Metadata:
    software           : Lavf58.64.100
    ISFT               : Lavf58.64.100
    Stream #0:0: Video: mpeg4 (FMP4 / 0x34504D46), yuv420p(tv, progressive), 720x480 [SAR 1:1 DAR 3:2], q=2-31, 200 kb/s, 24 fps, 24 tbn, 24 tbc
  C
  Metadata:
    encoder            : Lavc58.114.100 mpeg4
  Side data:
    cpb: bitrate max/min/avg: 0/0/200000 buffer size: 0 vbv_delay: N/A
    Stream #0:1: Audio: mp3 (libmp3lame) (U[0][0][0] / 0x0055), 48000 Hz, stereo, fltp
  Metadata:
    encoder            : Lavc58.114.100 libmp3lame
frame= 86 fps=0.0 q=14.1 size= 256kB time=00:00:03.69 bitrate= 567.4kbits/frame= 184 fps=184 q=27.7 size= 512kB time=00:00:07.72 bit
rate= 542.7kbits/frame= 240 fps=188 q=31.0 Lsize= 663kB time=00:00:10.04 bitrate= 540.6kbits/s speed=7.85x
video:480kB audio:157kB subtitle:0kB other streams:0kB global headers:0kB muxing overhead: 3.982580%
dani@dani-System-Product-Name:~/Escritorio/S2$
```

Ejercicio 4

```
dani@dani-System-Product-Name: ~/Escritorio/S2

dani@dani-System-Product-Name:~/Escritorio/S2$ ffmpeg -i cut.avi -map_channel 0.1.0 -c:v copy mono.avi
ffmpeg version N-100109-g7cf852b Copyright (c) 2000-2020 the FFmpeg developers
  built with gcc 9 (Ubuntu 9.3.0-17ubuntu1-20.04)
  configuration: --prefix=/home/dani/ffmpeg_build --pkg-config-flags=--static --extra-cflags=-I/home/dani/ffmpeg_build/include
--extra-ldflags=-L/home/dani/ffmpeg_build/lib --extra-libs=-lpthread -lm' --bindir=/home/dani/bin --enable-gpl --enable-gnutls
--enable-libaom --enable-libass --enable-libfdk-aac --enable-libfreetype --enable-libmp3lame --enable-libopus --enable-lsvta
v1 --enable-libvorbis --enable-libvpx --enable-libx264 --enable-libx265 --enable-nonfree
  libavutil      56. 61.100 / 56. 61.100
  libavcodec     58.114.100 / 58.114.100
  libavformat    58. 64.100 / 58. 64.100
  libavdevice    58. 11.103 / 58. 11.103
  libavfilter     7. 91.100 /  7. 91.100
  libswscale     5.  8.100 /  5.  8.100
  libswresample  3.  8.100 /  3.  8.100
  libpostproc   55.  8.100 / 55.  8.100
Input #0, avi, from 'cut.avi':
  Metadata:
    software      : Lavf58.64.100
  Duration: 00:00:10.04, start: 0.000000, bitrate: 1913 kb/s
    Stream #0:0: Video: mpeg4 (Simple Profile) (FMP4 / 0x34504D46), yuv420p, 1920x1080 [SAR 1:1 DAR 16:9], 1772 kb/s, 24 fps, 2
4 tbr, 24 tbn, 24 tbc
    Stream #0:1: Audio: mp3 (U[0][0][0] / 0x0055), 48000 Hz, stereo, fltp, 128 kb/s
Stream mapping:
  Stream #0:0 -> #0:0 (copy)
  Stream #0:1 -> #0:1 (mp3 (mp3float) -> mp3 (libmp3lame))
Press [q] to stop, [?] for help
-map_channel is forwarded to lavfi similarly to -af pan=0x4|c0=c0.
[pan @ 0x55ab51e71a80] Pure channel mapping detected: 0
Output #0, avi, to 'mono.avi':
  Metadata:
    software      : Lavf58.64.100
    ISFT          : Lavf58.64.100
  Stream #0:0: Video: mpeg4 (Simple Profile) (FMP4 / 0x34504D46), yuv420p, 1920x1080 [SAR 1:1 DAR 16:9], q=2-31, 1772 kb/s, 2
4 fps, 24 tbr, 24 tbn, 24 tbc
  Stream #0:1: Audio: mp3 (libmp3lame) (U[0][0][0] / 0x0055), 48000 Hz, mono, fltp
  Metadata:
    encoder       : Lavc58.114.100 libmp3lame
frame= 240 fps=0.0 q=-1.0 Lsize= 2267kB time=00:00:10.04 bitrate=1849.5kbits/s speed=38.7x
video:2163kB audio:79kB subtitle:0kB other streams:0kB global headers:0kB muxing overhead: 1.134010%
dani@dani-System-Product-Name:~/Escritorio/S2$
```

```
dani@dani-System-Product-Name: ~/Escritorio/S2

frame= 240 fps=0.0 q=-1.0 Lsize= 2267kB time=00:00:10.04 bitrate=1849.5kbits/s speed=38.7x
video:2163kB audio:79kB subtitle:0kB other streams:0kB global headers:0kB muxing overhead: 1.134010%
dani@dani-System-Product-Name:~/Escritorio/S2$ ffmpeg -i mono.avi -acodec mp3 -vcodec copy mono_code2.avi
ffmpeg version N-100109-g7cf852b Copyright (c) 2000-2020 the FFmpeg developers
  built with gcc 9 (Ubuntu 9.3.0-17ubuntu1-20.04)
  configuration: --prefix=/home/dani/ffmpeg_build --pkg-config-flags=--static --extra-cflags=-I/home/dani/ffmpeg_build/include
--extra-ldflags=-L/home/dani/ffmpeg_build/lib --extra-libs=-lpthread -lm' --bindir=/home/dani/bin --enable-gpl --enable-gnutls
--enable-libaom --enable-libass --enable-libfdk-aac --enable-libfreetype --enable-libmp3lame --enable-libopus --enable-lsvta
v1 --enable-libvorbis --enable-libvpx --enable-libx264 --enable-libx265 --enable-nonfree
  libavutil      56. 61.100 / 56. 61.100
  libavcodec     58.114.100 / 58.114.100
  libavformat    58. 64.100 / 58. 64.100
  libavdevice    58. 11.103 / 58. 11.103
  libavfilter     7. 91.100 /  7. 91.100
  libswscale     5.  8.100 /  5.  8.100
  libswresample  3.  8.100 /  3.  8.100
  libpostproc   55.  8.100 / 55.  8.100
Input #0, avi, from 'mono.avi':
  Metadata:
    software      : Lavf58.64.100
  Duration: 00:00:10.08, start: 0.000000, bitrate: 1841 kb/s
    Stream #0:0: Video: mpeg4 (Simple Profile) (FMP4 / 0x34504D46), yuv420p, 1920x1080 [SAR 1:1 DAR 16:9], 1764 kb/s, 24 fps, 2
4 tbr, 24 tbn, 24 tbc
    Stream #0:1: Audio: mp3 (U[0][0][0] / 0x0055), 48000 Hz, mono, fltp, 64 kb/s
Stream mapping:
  Stream #0:0 -> #0:0 (copy)
  Stream #0:1 -> #0:1 (mp3 (mp3float) -> mp3 (libmp3lame))
Press [q] to stop, [?] for help
Output #0, avi, to 'mono_code2.avi':
  Metadata:
    software      : Lavf58.64.100
    ISFT          : Lavf58.64.100
  Stream #0:0: Video: mpeg4 (Simple Profile) (FMP4 / 0x34504D46), yuv420p, 1920x1080 [SAR 1:1 DAR 16:9], q=2-31, 1764 kb/s, 2
4 fps, 24 tbr, 24 tbn, 24 tbc
  Stream #0:1: Audio: mp3 (libmp3lame) (U[0][0][0] / 0x0055), 48000 Hz, mono, fltp
  Metadata:
    encoder       : Lavc58.114.100 libmp3lame
frame= 240 fps=0.0 q=-1.0 Lsize= 2267kB time=00:00:10.08 bitrate=1842.1kbits/s speed= 41x
video:2163kB audio:79kB subtitle:0kB other streams:0kB global headers:0kB muxing overhead: 1.136006%
dani@dani-System-Product-Name:~/Escritorio/S2$
```