Video TIPS

Getting INFO

```
avprobe <file>
```

Convert to webm

```
ffmpeg -i input.video -threads 4 -b:v 1M -crf 10 output.webm
```

Repair index

```
mencoder -idx input.video -ovc copy -oac copy -o output.video
```

from images to video

```
# 5 images per seconds
ffmpeg -y -framerate 5 -pattern_type glob -i '*.jpg' -c:v libx264 -vf
"fps=25,scale=720:-1" out.mp4
```

MKV

convert to mkv

```
mkvmerge -o output.mkv <inputfile>
```

convert to mkv and downgrade quality

```
avconv -i <inputfile> -map 0 -c:v libx264 -crf 20 -c:a copy -c:s copy
<outfile>.mkv
```

concatenate all *.mp4 files to output.mkv

```
mkvmerge -o output.mkv $(echo *.mp4 | sed "s| | +|g")
```

x264

From x265 to x264

```
ffmpeg -xerror -i input.mkv -hide_banner -threads 0 -map 0 -c:a copy -c:s
copy -c:v libx264 -pix_fmt yuv420p output.mkv
```

script

convert files to mkv and downgrade them if greater than specific value

tomkv (chmod +x)

```
#!/bin/bash

OUTDIR=out
LIMIT_MBYTE=1500
QUALITY=20 # lower values are better

mkdir -p $OUTDIR
set -x
for f in "$@"
do
    [ -f "$f" ] || continue

    SIZE=$(stat -c%s "$f")
    OUTNAME=$OUTDIR/${f%.*}.mkv
    [ -f "$OUTNAME" ] && ( echo "Skip $OUTNAME"; continue )

    if [ $SIZE -gt $(($LIMIT_MBYTE*1000000)) ]; then
        echo avconv $f
        avconv -i "$f" -map 0 -c:v libx264 -crf $QUALITY -c:a copy -c:s copy
"$OUTNAME"
    else
        echo mkvmerge $f
        mkvmerge "$f" -o "$OUTNAME"
    fi
done
```

Usage to convert into ./out folder

```
tomkv file1 file2 ...
```

camera motion

```
INPUT=rtsp://foscam:foscam1@192.168.2.14/videoMain
ffprobe -i $INPUT
```

```
ffmpeg -rtsp_transport tcp -i $INPUT -c:v libx264 -an -y test.mp4
```

shinobi

```
ffmpeg -loglevel warning -analyzeduration 5000000 -probesize 5000000 \
 -rtsp_transport tcp -i rtsp://admin:admin@192.168.2.29:554/12 \
 -preset ultrafast -crf 15 -an -c:v libx264 -r 2 -f hls -s 640x380 \
 -max_muxing_queue_size 1024 \
 -tune zerolatency -g 1 -hls_time 2 -hls_list_size 3 -start_number 0 -
hls_allow_cache 0 \
 -hls_flags +delete_segments+omit_endlist
"/dev/shm/streams/8Pkk5cE2xY/LIBm503cxy/s.m3u8" \
 -f singlejpeg -vf fps=0.5 -s 640x380 pipe:0 \
 -update 1 -r 1 "/dev/shm/streams/8Pkk5cE2xY/LIBm503cxy/s.jpg" \
 -y -f mpegts -c:v libx264
http://127.0.0.1:8080/streamIn/8Pkk5cE2xY/LIBm503cxy/1
```

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