

# tvPlayer as digital props for film and TV

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WIP.

## things to do to get this up and running

1. run the install script to:
  - install dependencies
  - run `python tvPlayer.py` on autostart
  - disable window "removable medium is inserted"

```
bash install.sh
```

2. disable (move/remove) autostart file for Eddy-G (if available) from folder  
`~/.config/autostart`

### old notes

- ~~2. on the desktop, open any folder, go to `edit > preferences > volume management`~~
- ~~3. something something LXDE autostart script `nano ~/.config/lxsession/LXDE-pi/autostart`~~
- ~~4. install script takes care of autostart and creates a file here: `~/.config/autostart`~~

## MPV player: PLayerable media

The media player [MPV](#) ([doc wiki](#)) can play pretty much everything - however, filename-endings are fixed to work with `.mp4`, `.mkv`, `.avi`, `.mxf` and `.mov` (case insensitive).

it uses ffmpeg to decode, so the [list of playable media](#) is huge.

According to the mpv.io website:









File Formats: mpv supports a wide variety of media formats, including popular video files (e.g., MP4, MKV), audio codecs (e.g., AAC, MP3), and subtitles.

Some cherry picked examples:

- Containers: MP4, MKV, AVI, WebM, OGG, FLV, and more.
- Video Codecs: H.264, HEVC, VP8, VP9, AV1, MPEG-4, MPEG-2, and others.
- Audio Codecs: AAC, MP3, Vorbis, FLAC, Opus, AC3, and DTS.
- Subtitle Formats: SRT, ASS, SSA, VTT, and embedded subtitle tracks in containers like MKV.

Manually tested:

- ☒ `.mp4` MPEG-4 AAC, H264
- ☒ `.avi` MPEG-4 mp3
- ☒ `.mkv` h264, yuv420p

-   **.mxf** mpeg2video (4:2:2), yuv422p
-   **.mp4** HEVC, H265
-   **.mov** H264
-   **.mkv** "4k UHD" h264 yuv420p works (but stuttering on raspberry pi4 @8gb)

## Keyboard controls

Keypress	Action	Note
UP	next channel (next file)	
DOWN	prev channel (next file)	
LEFT	jump -5 seconds	
RIGHT	jump 5 seconds	
LEFT and SHIFT	pause and one frame backwards	
RIGHT and SHIFT	pause and one frame forwards	
p or space	toggle play / pause	
ESC	toggle fullscreen	
q	shutdown raspberry pi	
b	toggle black screen	
c	video fitting (contain, stretch or cover)	
i	set inpoint (where the file starts to play)	
I (i and SHIFT)	clear inpoint on this video	
,	reduce video brightness by 5%	
.	increase video brightness by 5%	
+	reduce volume by 10%	
-	increase volume by 10%	
number	go to channel nr	
else	ignored	

## SSH stuff

```
scp ./tvPlayer/* dp@192.168.1.209:~/Desktop/tvPlayer
```

```
ssh dp@192.168.1.209 'DISPLAY=:0 python ~/Desktop/tvPlayer/tvPlayer.py'
```

```
scp -r ./tvPlayer/* dp@192.168.1.209:~/Desktop/tvPlayer && ssh
dp@192.168.1.209 'DISPLAY=:0 python -u ~/Desktop/tvPlayer/tvPlayer.py'
```

