

aCSTV — antiX Community Yooj yim TV Starter

Kev Pabcuam:

Qhov kev zov me nyuam yog siv rau kev txais tos yooj yim ntawm cov chaw hauv cheeb tsam hauv TV raws li cov ntaub ntawv ntws hauv Is Taws Nem. Kev xaiv chaw nres tsheb thiab kev tso cai ntawm qhov kev zov me nyuam qhov qhib tau yooj yim teeb tsa. Cov chaw txais tos thoob ntiaj teb kuj tuaj yeem raug ntxiv, yog tias lawv tsis tau raug thaiv los ntawm cov chaw muab kev pabcuam ntawm *GeoIP* rau lub tebchaws nug.

Yuav tsum muaj kev sib txuas hauv internet kom tau txais cov channel.

- Pib txais tos:

Txhawm rau pib TV txais tos, nias ib qho ntawm qhov chaw nres tsheb khawm (sab laug nas khawm nyem).

Faj seeb: Nws yuav siv sij hawm txog 12 vib nas this rau daim duab TV kom tshwm. Nyob rau hauv sib piv rau analogue TV, qhov twg hloov los ntawm ib qho kev pab cuam mus rau lwm qhov tshwm sim nyob rau hauv ib feem ntawm ib tug thib ob, txawm nrog keeb kwm tube teev, nrog rau cov kev txais tos digital kev twb kev txuas mus rau tus neeg rau zaub mov ntawm cov kev pab cuam kis tau tus mob yuav tsum xub tsim nyob rau hauv Internet. Tsis tas li ntawd, cov ntaub ntawv tuaj yuav tsum tau buffered rau ob peb vib nas this thiaj li yuav pab kom tsis muaj teeb meem playback, uas kuj ua rau ncua sij hawm pib ntawm cov duab tiag playback. Lub sijhawm ntev nyob ntawm ntau yam, suav nrog lub sijhawm teb ntawm cov neeg rau zaub mov ntawm cov chaw muab kev pabcuam sib kis thiab kev ua haujlwm ceev ntawm PC.

- Hloov chaw:

Hloov mus rau lwm qhov kev pab cuam, nias lwm qhov chaw nres tsheb khawm.

- TV txais tos:

Txhawm rau hloov cov channel tam sim no, nias lub pob "Stop" .

- program:

Txhawm rau tawm aCSTV, nias lub "Tawm" (lossis "b") yuam sij.

- Kev saib ua ntej: Qhov

kev saib ua ntej tam sim no tuaj yeem tso tawm hauv qhov browser nrog "Program saib ua ntej" khawm . Cov neeg muab kev pabcuam xav tau tuaj yeem teeb tsa dawb hauv cov chaw.

- Scene Diam duab:

Lub "Scene Diam duab" khawm tsim cov duab scene ntawm daim duab TV tam sim no. Daim duab khaws cia rau hauv daim nplaub tshev khaws cia hauv qhov chaw nyob hauv qab cov ntaub ntawv npe *Scene photo-
<Sender>-<Date>-<Time>.png* . Piv txwv: *Scene photo-Arte-03.10.2021-17:14:22.png*

- Cov ntaubntawv povthawj siv muaj nuj nqi:

Pib sau cov kev pab cuam tam sim no nrog rau "Video kaw" khawm . Ib lub cim kev kaw lus liab tshwm nyob rau hauv qhov xwm txheej bar. Nyem rau ntawm aCSTV kaw icon qhib cov ntaub ntawv sib tham. Qhov tseeb ntawm cov ntaub ntawv nce ntxiv nrog rau lub sijhawm ua haujlwm dhau los. Cov ntaubntawv povthawj siv tau txais kev cawmdim nyob rau hauv cov ntaub ntawv npe *Broadcast Recording-<Sender>-<Date>-<Time>.ts* nyob rau hauv lub nplaub tshev teev nyob rau hauv tej chaw.

Cov ntaub ntawv hom .ts tuaj yeem ua si nrog mpv , piv txwv li . Piv txwv li: *Tshaj tawm cov ntaubntawv povthawj siv-Phoenix-03.10.2021-16:02:31.ts*
Xaus cov ntaubntawv povthawj siv nrog rau "Stop recording« khawm. Qhov no xaus qhov kev kaw cia thiab qhov kev pab cuam tam sim no tseem tau txais.

Rau cov laj thawj kev, cov zaub ntawm qhov kev pab cuam tam sim no ntawm lub vijtsam tam sim no cuam tshuam rau ob peb vib nas this thaum pib thiab nres qhov kaw. Rau kev hloov dua siab tshiab rau lwm cov ntaub ntawv tawm tswv yim, saib "Lwm yam".

- Hloov daim ntawv teev npe chaw nres tsheb
Lub khawm txoj haujlwm ntawm cov nyees khawm chaw nres tsheb hauv lub thawv loj tuaj yeem hloov tau siv lub pob ☒, los ntawm kev nyeem hauv lwm daim ntawv teev npe chaw nres tsheb .Lub neej ntawd directory rau cov npe chaw nres tsheb yog `~/config/aCSTV` , tab sis cov ntaub ntawv tuaj yeem nyeem tau los ntawm txhua phau ntawv uas tau tso cai sau ntawv. Cov ntaub ntawv piv txwv rau ntau lub teb chaws tuaj yeem pom nyob rau hauv phau ntawv teev npe / `usr / local / lib / aCSTV /`
Stationslisten thiab tseem tuaj yeem muab luam tawm ntawm qhov ntawd mus rau hauv aCSTV configuration directory. Qee qhov chaw nres tsheb ntawm daim ntawv teev npe no tuaj yeem tau txais thoob ntiaj teb, lwm qhov yog geo-thaiv thiab tsuas tuaj yeem tau txais hauv lub tebchaws. Cov npe channel tam sim no nyeem nyob rau hauv tuaj yeem hloov kho tau hauv cov ntawv ghia zaub mov.
- Shortcuts thiab nas tswj:
Cov haujlwm hauv qab no tau muab thaum lub sijhawm ua si siv MPV tus yuam sij thiab nas tswj:

General commands

- Qhia thiab nkaum lub keypad -
- Hloov ntawm hom puv npo thiab lub qhov rais hom: ob-nias rau ntawm cov duab video khiav. (tseem: f)
- Kho video ncej loj (dub ciam teb): Alt + Alt -
- Kho lub suab / video desynchronization: Ctrl + Ctrl -
- Kho playback ntim: 90
- Mute/unmute: m
- Gamma kho video duab: 6 5
- Brightness video duab: 4 3
- Video duab: 21
- Xim saturation video duab: 8 7
- Ncua tseg thiab rov pib playback: txoj nyem rau ntawm daim duab video. (tseem: p thiab qhov chaw bar) (nyob ntawm cov ntaub ntawv tus nqi txog li 30 feeb, nyob ntawm seb qhov chaw nyob hauv zos li cas)
- Fast forward / rewind (1 sec): Ua haujlwm ← Ua haujlwm →
- Ceev ceev rau pem hauv ntej / rewind (5 sec): ← →
- Fast forward / rewind (1 min): ↑ ↓
- (Nyob rau pem hauv ntej thiab rewind ua tau nyob rau hauv lub buffer, tshwj xeeb tshaj yog tom qab siv lub ncua muaj nuj nqi)
- Scene Diam duab: khawm hauv aCSTV tswj vaj huam sib luag lossis s

(Daim duab tseem muab tso rau hauv daim nplaub tshev teev nyob rau hauv aCSTV chaw)

· Kev kaw cov yeeb yaj kiab ntawm qhov kev pab cuam tam sim no: khawm hauv aCSTV tswj vaj huam sib luag

Accelerate/decelerate playback (10%): []

(muaj peev xwm txwv, muaj txiaj ntsig zoo rau kev kho qhov tsis raug -speed, tsis raug cov yeeb yaj kiab encoded uas ua rau lub cache khiav tawm thaum ua si nrawm dhau, lossis nws ntu yuav dhau mus ua ntej lawv tau rov qab thaum ua si qeeb dhau)

· Playback ceev ib txwm: backspace

· Teem thiab tso tseg lub voj tsis kawg (AB): l

Hloov mus rau lwm qhov kwj video (yog tias muaj): Hloov -

Hloov mus rau lwm lub suab (yog tias muaj): #

Cov ntaub ntawv muaj nuj nqi:

· kwj thiab playback cov ntsiab lus Ua haujlwm i

· Buffer sau qib thiab playback txoj hauj lwm hauv qhov tsis nco: Hloov lossis zoo sib xws

· Saib kwj URL F8

· Qhia kwj cov ntaub ntawv rau suab, video thiab subtitles F9

Subtitle nta (yog tias muaj)

Qhib/disable subtitles: v

Hloov ntawm qhov sib txawv subtitles: j J

Synchronize subtitles nrog video duab: z Z

Kev teeb tsa:

Txhua qhov chaw aCSTV tuaj yeem hloov kho tom qab nias lub pob "Settings".

- Kev txwv ntawm cov ntaub ntawv yees duab tus nqi:

Nrog rau qhov teeb tsa ntawm qhov siab tshaj plaws playback tus nqi hauv kbps, cov ntaub ntawv kwj thov los ntawm tus neeg rau zaub mov tuaj yeem hloov kho rau kev ua haujlwm ntawm lub khoos phis tawj siv thiab Internet kab.

1. Kev txwv raws li kev ua haujlwm ntawm PC. Kev paub tau pom tias ib leeg-ntxhais 32-ntsis Pentium-M nrog 1.7 GHz tuaj yeem tsim dua qhov siab tshaj plaws ntawm 3000 kbps yam tsis muaj kev cuam tshuam. Yog li ntawd, nws yog qhov tsim nyog los teeb tsa nws nyob ib puag ncig tus nqi no ntawm lub PC. aCSTV xaiv qhov zoo tshaj plaws muaj cov ntaub ntawv ntwis los ntawm cov chaw muab kev pabcuam uas qis dua tus nqi siab tshaj plaws. Tus nqi siab dua tuaj yeem nkag mus rau cov khoos phis tawj muaj zog dua, thiab qis dua rau cov tsis muaj zog.
2. Kev txwv raws li muaj peev xwm kis tau tus mob ntawm Internet kev twb kev txuas. Nyob ntawm qhov zoo ntawm kev sib txuas hauv Is Taws Nem (lossis tej zaum WLAN), nws yuav tsim nyog los txwv cov txiaj ntsig hauv qab ntawm kev ua haujlwm ntawm PC, piv txwv li rau 1800) . Cov nqi qis ua rau cov duab tsis tshua muaj kev daws teeb meem, thaum cov nqi siab ua rau poob qis tas li. Feem ntau tshaj tawm los ntawm German pej xeem TV tshaj tawm tam sim no tshaj tawm ntawm tus nqi ntawm

325k , 581k, 635k, 969k, 1020k, 1130k, 1790k, 1807k, 2120k, 3256k, 3544k, 3929k, 7290k, 390k, 390k, 390k, 390k, 7290k, 7290k, 3990k

, 3929k, Nyob ntawm tus muab kev pabcuam, qee tus neeg tshaj tawm xov xwm ntiag tug muaj kev cuam tshuam ntau zaus thaum lub sijhawm siab tshaj plaws thaum lub sijhawm sib kis, txawm tias cov ntaub ntawv tus nqi tau raug teeb tsa kom raug. Nyob rau lwm lub sijhawm ntawm hnub, kev txais tos ntawm cov chaw nres tsheb no ua haujlwm zoo dua.

- **Xaiv lub TV screen**

Lub vijtsam rau cov duab tso tawm hauv TV tuaj yeem teeb tsa hauv qhov chaw. Yog tias, piv txwv li, lub TV teeb txuas nrog lub PC ua lub vijtsam thib ob thiab teeb tsa raws li, cov duab hauv TV tuaj yeem tso tawm hauv TV los ntawm kev qhia tus lej xov tooj sib raug. Ceev faj: Cov suav pib ntawm xoom, piv txwv li "0« yog thawj lub vijtsam, "1« thib ob thiab lwm yam. Qhov siab tshaj plaws ntawm 32 lub vijtsam tuaj yeem hais.

- **Full screen mode/window mode**

No check box yuav siv tau los qhia seb daim duab TV puas tau pib puv npo los yog lub qhov rais. Koj tuaj yeem hloov rov qab los ntawm lub vijtsam puv thiab lub qhov rai txhua lub sijhawm (ob- *nias* ntawm daim duab TV tam sim no lossis nias lub "*F*" tus yuam sij).

- **Playback nyob rau hauv pem hauv ntej**

Nrog lub checkbox no koj muaj peev xwm txiav txim seb lub TV daim duab yuav tsum ib txwm muab tso rau hauv pem hauv ntej los yog seb nws yuav overlayed los ntawm lwm qhov rais. Cov zaub tuaj yeem hloov tau txhua lub sijhawm los ntawm cov ntawv qhia zaub mov ntawm lub taskbar → Layer , nrog rau qhov tseem ceeb ua ke "*Shift T*" .

- **Lub hom phiaj folders rau scene duab thiab video**

recordings Nkag mus rau cov folders nyob rau hauv uas cov ntaubntawv povthawj siv thiab scene duab yuav tsum tau muab cia rau hauv qhov tsim nyog input teb. Cov txheej txheem sib raug zoo ntawm antiX operating system yog preset, hais los ntawm \$XDG_PICTURES_DIR/ thiab \$XDG_VIDEOS_DIR/.

Tus neeg siv nkag mus yuav tsum tau sau ntawv nkag mus rau cov ntawv teev tseg.

- **Kho cov npe chaw nres tsheb manually**

Daim ntawv teev npe chaw nres tsheb tuaj yeem raug kho manually. Kev nkag tshiab tuaj yeem muab ntxiv, cov ntawv nkag uas twb muaj lawm tuaj yeem raug tshem tawm lossis hloov pauv. Ob lub npe chaw nres tsheb thiab cov chaw nyob server cuam tshuam tuaj yeem hloov kho. Cov kab pib nrog hash (#) yog neeg xiam oob qhab thiab tsis tshwm sim ntawm lub keyboard.

- **Hloov kho cov npe chaw nres tsheb tau txais**

Daim ntawv teev chaw nres tsheb tam sim no nyeem hauv tuaj yeem hloov kho tau nrog lub pob "*Hloov tshiab*" . Yuav tsum muaj kev sib txuas hauv internet uas twb muaj lawm rau qhov no. Cov npe channel tshwj xeeb hauv lub tebchaws tau hloov kho tas li los ntawm cov neeg tuaj yeem pab dawb los ntawm *IPTV.org qhov project*. Thaum hloov kho cov npe chaw nres


tsheb cia li, koj tuaj yeem siv qhov "Kuai xyuas kev sib txuas mus rau chaw nres tsheb" kom tshem tawm cov chaw nres tsheb uas tsis tuaj yeem tau txais ntawm koj tus kheej qhov chaw. Cov txheej txheem no tuaj yeem siv sijhawm ntev (tshwj xeeb yog cov npe loj ntawm cov channel), vim tias cov lus teb los ntawm cov neeg rau zaub mov yuav tsum tau tos rau txhua qhov channel. Yog tias nws ploj lawm los yog yuam kev, tsis txhob muaj qhov tsis lees paub qhov tseeb, qhov kev sib txuas yuav tsum tau tso cai rau lub sijhawm ua ntej tus neeg xa khoom ua txhaum cai tuaj yeem muab pov tseg.

Lwm yam:

Utilities

Cov khoom siv hluav taws xob socat , *feh*, *buffer*, *mpv*, *yd-dlp*, *sed*, *xdotool*, *wmctrl* yuav tsum tau nruab. Qhov no tau txais kev ruaj ntseg thaum txhim kho ntawm Debian installation pob. Yog tias cov khoom no ploj lawm, piv txwv li thaum lub sijhawm kev teeb tsa, aCSTV yuav tsis ua haujlwm.

Scope ntawm cov npe channel

Nrog cov npe channel loj heev nrog ntau dua 40-50 channels, kev ua haujlwm los ntawm aCSTV ua qeeb zuj zus. Txhawm rau ua haujlwm sai thiab txuag tau nyiaj, koj yuav tsum xyuas kom meej tias cov npe channel tsuas yog txwv rau cov kev nkag uas yuav tsum tau ua tiag tiag, thiab kom koj deactivate (hais tawm) lossis tshem tawm tag nrho cov kev nkag tsis txaus ntseeg hauv "*Kho kom raug cov npe channel*" chaw . Tus lej siab tshaj plaws uas tuaj yeem muab tau yog kwv yees li 264, nyob ntawm seb muaj pes tsawg tus cim rau ib lub npe nkag. Nws muaj peev xwm hais tias lub keypad ntawm qhov loj no tsis tuaj yeem tso tawm kom pom tseeb ntawm cov saib me me. Tag nrho cov kev nkag mus ntxiv ntawm cov npe ntau dhau yog tsis quav ntsej. Cov npe channel loj tuaj yeem muab faib ua ntau cov ntaub ntawv siv cov ntawv nyeem xws li *Geany* lossis *Leafpad* , uas tuaj yeem xaiv tau siv "*Hloov cov npe channel* " khawm (icon: ) ntawm lub keyboard.

Cov ntaub ntawv hom thiab hloov dua siab tshiab

Cov ntaub ntawv khaws tseg hauv *.ts* hom tuaj yeem ncaj qha rov qab nrog *MPV* hauv *antiX* . Yog xav tau, koj tuaj yeem siv *ffmpeg* los hloov cov ntaub ntawv khaws tseg los ntawm *.ts* hom ntawv mus rau lwm hom ntawv . Kev hloov pauv thaum kaw tsuas yog ua tau ntawm cov tshuab muaj zog heev thiab yog li tsis yog rau aCSTV. Txij li thaum nws tseem tsis tuaj yeem kwv yees seb hom chaw nres tsheb twg yuav kis tau, yuav tsum muaj kev sim me ntsis thaum hloov pauv tom qab. Yog hais tias cov hom ntawv tau txais tsis tau tshaj lub hom phiaj hom, xws li cov video los yog cov ntaub ntawv kwj uas muaj nyob rau hauv, los yog ob qho tib si, yuav tsum tau re-encoded, txwv tsis pub nws yog txaus rau repackaging lawv unchanged nyob rau hauv lub hom phiaj hom phiaj.

Piv txwv:

- rau *Matroska* , yam tsis rov encoding
ffmpeg -i './filename.ts' -map 0 -c luam './filename.mkv'
- rau *mp4* , yam tsis rov encoding
ffmpeg -i './filename.ts' -map 0 -c luam './filename.mp4'
- Yog hais tias cov ntaub ntawv kwj kis tau los ntawm lub broadcaster thiab khaws cia rau hauv *.ts* cov ntaub ntawv tsis sib xws nrog cov hom phiaj xaiv (xws li *mp4*), qhov kev hloov pauv no yuav tsis ua haujlwm thiab tsuas

yog tsim cov lus yuam kev xwb. Nyob rau hauv cov ntaub ntawv no tus yees duab yuav rov encoded:

```
ffmpeg -i './filename.ts' -c:v libx264 -c: ib daim ntawv './filename.mp4'
```

- Los yog rov encode video thiab suab:

```
ffmpeg -i './filename.ts' -c:v libx264 -c:a aac './filename.mp4'
```

Raws li kev suav lub zog ntawm PC, cov ntaub ntawv loj thiab hom rov encoding, kev ua haujlwm tuaj yeem siv sijhawm ntev.