

## aCSTV — antiX Community Mfe TV Starter

### Oru:

A na-eji mmemme ahụ maka nnabata dị mfe nke ọwa telivishon mpaghara dị ka iyi data site na intanetị. Nhọrọ ọdụ na ọrụ nke oghere mmemme bụ nhazi n'efu. Enwere ike igbakwunye ọdụ ugbo ala mba uwa, ma ọ bụrụ na onye na-ahụ maka ọrụ egbochighi ha site na *GeoIP* maka obodo a na-ajụ.

Achọrọ njikọ intanetị iji nweta ọwa ndị ahụ.

- Malite nnabata:

Iji malite nnabata TV, pịa otu bọtịnụ ọdụ (bọtịnụ òké aka ekpe).

Mara: Ọ nwere ike were ihe ruru sekond iri na abụọ maka onyonyo onyonyo. N'uzọ dị iche na telivishon analog, ebe igbanwee site n'otu mmemme gaa na nke ọzọ mere n'ime nkeji irighiri nke a nke abụọ, ọbuna na akụkọ ihe mere eme tube tent, na dijitalu n'ikuku a njikọ nke iche nkesa nke nnyefe ọrụ ga-ebu ụzọ guzobe site na Intanetị. Na mgbakwunye, a ga-edobe data na-abata maka sekond ole na ole ka e wee nwee ike ikpogghachi n'enweghi nsogbu, nke na-ebutekwa igbu oge na mmalite nke nkwughachi onyonyo n'ezie. Ogologo oge na-adabere n'ọtụtụ ihe, gụnyere oge nzaghachi nke ihe nkesa nke onye na-enye ọrụ nnyefe na ọsọ nhazi nke PC.

- Gbanwee ọdụ ọdụ:

Ka igbanwee gaa na mmemme ọzọ, pịa bọtịnụ ọdụ ọdụ ọzọ.

- TV:

Ka igbanyuọ ọwa ugbo a, pịa bọtịnụ «Kwusi» .

- Mmemme opupu:

Iji puo aCSTV, pịa igodo "Exit" (ma ọ bụ "b").

- Nlele mmemme:

Enwere ike igosiputa ihe nlebanya mmemme dị ugbo a na ihe nchoghari site na bọtịnụ »nhuchalu mmemme« . Enwere ike ihazi onye na-eweta ọrụ achoro na ntọala.

- Foto ngosi:

Bọtịnụ »Foto ihe nkiri« na-emeputa foto ngosi nke foto TV dị ugbo a. A na-eche kwa foto a na folda echekwara na ntọala n'okpuru aha failu *Scene foto-<Sender>-<Ubochi>-<Oge> .png* . Omumaatu: *Foto ngosi-Arte-03.10.2021-17:14:22.png*


- Oru ndeko:

Malite ideko mmemme dị ugbo a na bọtịnụ »ndeko vidiyo« . Akara njikwa ndeko na-acha uhie uhie na- egosi na ogwe okwa. Ipi na akara ngosi ndeko aCSTV ga-emepe mkparita uka ozi. Izi ezi nke ozi na-abawanye na oge igba ọsọ gafere. A na-eche kwa ndeko ahụ n'okpuru aha failu *Broadcast Recording-<Sender>-<Ubochi>-<Oge> .ts* na folda akowaputara n'okpuru Ntọala. Enwere

ike iji *mpv* kpoo usoro failu *.ts* , *dika omumaatu* . Omumaatu: *Mgbasa ndeko-Phoenix-03.10.2021-16:02:31.ts* Jikwa

bọtịnụ "Kwusi ndeko" kwusi ndeko. Nke a na-akwusi ndeko na mmemme ugbo a na-aga n'ihu na-enweta.

N'ihia na teknuzu ihe, ngosi nke ugbo a mmemme na ihuenyo na- akwusi ugbo a maka sekond ole na ole mgbe *malite* na *ikwusi ndeko*. Maka ntughari gaa na ụdị failu ndi ọzọ, hụ "*Odjiche*".

- Igbanwe ndeputa odu ugbo  
mmiri Enwere ike igbanwe oru botinu nke botinu odu di na igbe okwu bu isi site na iji botinu , site n'igu na listi odu ugbo ozo akwadoro Akwukwo ndeko aha ndabara maka ndeputa odu bu `~/config/aCSTV`, mana enwere ike igu failu site na ndeko ndeko o bu la nwere ikike ide. Enwere ike ichota failu nlele maka otutu mba na ndeko / `usr / local / lib / aCSTV / Stationslisten` ma nwee ike iji aka deputaghachi ya n'ime ndeko nhazi aCSTV. Enwere ike inata ufodu odu ugbo mmiri di na ndeputa a n'ua niile, ndi ozo egbochiri geo-na enwere ike inata naani na obodo di iche iche. Enwere ike imelite ndeputa owa a na-agu ugbo a na-akpaghi aka na menu ntala.
- Uzo mkpirisi na njikwa oké:  
A na-enye oru ndi a n'oge a na-akpoghachi site na iji igodo MPV na njikwa oké:  
*Iwu izugbe*  
Gosi ma zoo ahụ igodo -  
· Gbanwee n'etiti onodu ihuenyo zuru oke na onodu windo: pia ugboro abuo na  
onyonyo vidiyo na-agba oso. (kwa: f)  
Ogo etiti vidiyo ziri ezi (oke ojii): Alt + Alt -  
Mmezighari odiyo/ vidiyo ziri ezi: Ctrl + Ctrl -  
Hazie olu nkwughachi: 9 0  
· Ogbi/mechie: m  
Onyonyo vidiyo mgbazi gamma: 6 5  
Onyonyo vidiyo na-egbuke egbuke: 4 3  
Foto vidiyo di iche: 2 1  
Onyonyo vidiyo saturation agba: 8 7  
· Kwusi ma maliteghachi ikpoghachi: pia aka nri na  
onyonyo vidiyo. (nakwa: p na oghere oghere) (dabere na onwego data ruo nkeji 30, dabere n'otu ihe nchekwa mpaghara si juju)  
· Oso oso / laghachi azu (1 sec): Mgbanwe ← Mgbanwe →  
· Oso oso / laghachi azu (nkeji ise): ← →  
Oso oso / laghachi azu (1 nkeji): ↑ ↓  
(O ga-ekwe omume na-aga n'ihu ma laghachi azu n'ime ihe nchekwa ahụ, okachasi mgbe ejirichara oru nkwusitu)  
Foto ngosi: botinu na aCSTV njikwa panel ma o bu s  
(A na-etinye foto a ka di na folda akowaputara na ntala aCSTV)  
· Video ndeko nke ugbo a omume: button na aCSTV akara panel  
Mee ngwa ngwa/melata ikpoghachi azu (10%): []  
(Ikike nwere oke, bara uru maka idozi ihe nkiri na-ezighi ezi -speed, ihe nkiri ezighi ezi nke na-eme ka cache gwu mgbe egwure ngwa ngwa, ma o bu nke akuku ya na-agwu tupu eweghachite ha mgbe ejiri nwayo na-egwuri egwu )  
· Oso ikpoghachi nkiti: oghere azu  
· Toq ma kagbuo loop na-adighi agwu agwu (AB): l  
Banye na iyi vidiyo ozo (o buru na o di): Shift -  
Banye na iyi odiyo ozo (o buru na o di): #

*Oru ozi:*

Nkwa okwu iyi na ikpogharị Shift i

Okwa ndochi na onodu okpukpo na ebe nchekwa nchekwa: Mgbanwe ma o bu ihe yiri ya

Lelee URL iyi F8

Gosi ozi iyi maka odiyo, vidiyo na ndeputa okwu F9

*Njirimara ndeputa okwu (o buru na o di)*

Kwado/gbanyu ndeputa okwu: v

Gbanwee n'etiti ndeputa okwu di iche iche: j J

Mekorita ndeputa okwu na onyonyo vidiyo: z Z

## **Ntoala:**

Enwere ike ihazi ntoala aCSTV niile mgbe ipiri botinu "Ntoala".

- **Mmachi nke onwego data vidiyo:**

Site na ntoala nke onu ogugu okpukpo kachasi na kbps, iyi data nke ihe nkesa na-ario nwere ike imeghari ya na ikike nhazi nke komputa ejiri na ahiri intaneti.

1. Mmachi dabere na arumoru nke PC. Ahumahu egosila na otu-isi 32-bit Pentium-M nwere 1.7 GHz nwere ike imuputa ihe kariri 3000 kbps na-enweghi nnyonye anya. Ya mere, o di mma ito ya na gburugburu uru a na PC di otu ahu. aCSTV na-ahoro iyi data kacha mma di n'aka onye na-ahu maka oru nke di n'okpuru uru kacha ahazi. Enwere ike itinye uru di elu maka komputa di ike kari, yana nke di ala maka ndi na-esighi ike.

2. Mmachi dabere na ikike nnyefe di nke njiko intaneti. Dabere n'idi mma nke njiko intaneti (ma o bu ikekwe WLAN), o nwere ike idi mkpa ikwusi ukpuru di n'okpuru arumoru nke PC, dika 1800 ) mee ka o kwe omume. Onu ahia di ala na-aruputa mkpebi onyonyo di ala, ebe ukpuru di elu na-ebute odida mgbe niile.

Otu mgbasaa ozi nke ndi mgbasaa ozi telivishon oha German na- agbasaa ugbu a na onwego

325k , 581k, 635k, 969k, 1020k, 1130k, 1790k,

1807k, 2120k, 3256k, 3544k, 3990k

niile di na owa. Dabere na onye na-ahu maka oru, ufodu ndi mgbasaa ozi nkeonwe na-enweta nkwasitu ugboro ugboro

n'oge oge kacha elu n'oge nnyefe, obulagodi na edobere onwego data nke oma. N'oge ndi ozu nke ubochi, nnabata nke ozu ndi a na-aru oru nke oma ozu.

- **Ihoro ihuenyo**

TV Enwere ike ihazi ihuenyo maka mmeputa foto TV na ntoala. Dika omumaatu, o buru na ejikoro ihe onyonyo TV na PC di ka ihuenyo nke abuo ma hazie ya, enwere ike igosiputa onyonyo onyonyo na TV site na ikowa nombaa ihuenyo kwekoro. Akpachara anya: Onu ogugu ahu na-amalite na efu, ntughari "0" bu ihuenyo mbu, "1" nke abuo wdg. Enwere ike ileba anya kachasi nke 32 ihuenyo.

- **Udi ihuenyo zuru oke/udi windo**

Enwere ike iji igbe nlele a kowaa ma ihe onyonyo a malitere di ka ihuenyo zuru oke ma o bu di ka windo. I nwere ike igbanwe azu na azu n'etiti

ihuenyo zuru oke na ọnọdu windo n'oge ọ bụla ( *pịa* ihe onyonyo di ugbo a ugboro abuo ma ọ bu pịa *igodo "F"* ).


- Ikpoghachi azu n'ihu  
Site na igbe nlele a, ị nwere ike ikpebi ma foto TV kwesiri idi na-egosiputa mgbe niile n'ihu ma ọ bu na windo ndi ozo nwere ike machie ya. Enwere ike igbanwe ihe ngosi n'oge ọ bula site na menu onodu nke taskbar → Layer , yana yana nchikota igodo "*Shift T*" .
- Ebe nchekwa ebumnuche maka foto ihe nkiri na  
ndeko vidiyo Tinye nchekwa ebe a ga-echekwa ndeko na foto ngosi n'ime mpaghara ntinye kwesiri ekwesị. Mpempe akwukwo okoloto kwekoro na sistemụ arumoru antiX bu atoro, nke \$XDG\_PICTURES\_DIR/ na \$XDG\_VIDEOS\_DIR/ zoro aka na ya.  
Onye oru banyere ga-enweriri ohere ide na nchekwa ndi akowaputara.
- dezie ndeputa odu odu Enwere ike iji aka  
dezie ndeputa odu odu ebubatara ugbo a. Enwere ike igbakwunye ndenye ohuru, enwere ike ihichapu ma ọ bu gbanwee ndenye di adi. Enwere ike idezi ma aha odu yana adreesi nkesa emetutara. Ahiri ndi na-amalite na hash (#) nwere nkwaru ma ọ putaghi na ahụ igodo.
- Imelite ndeputa odu ugbo mmiri na-akpaghi aka  
Enwere ike imelite ndeputa odu ugbo mmiri a na- agu ugbo a site na iji botinu "*Mmelite*" . Achoro njiko intaneti di ugbo a maka nke a. Ndi oru afo ofufo sitere na oru ngo *IPTV.org* na-emelite akwukwo ndeko aha owa akowaputara nke obodo ahụ. Mgbe ị na-emelite ndeputa odu ugbo mmiri na-akpaghi aka, inwere ike iji ntola "Chee njiko na odu odu" wepuru odu ugbo mmiri ndi ahụ enweghi ike inata na onodu nke gi. Usoro a nwere ike na-ewe oge (karisia n'ihe gbasara nnukwu ndeputa owa), ebe ọ bu na nzaghachi sitere na ihe nkesa ga-echere maka owa ọ bula. O buru na ọ na-efu ma ọ bu mehiere, kama inwe ojuju ziri ezi, a ga-ahapuri njiko ahụ ka ọ kwusichaa tupu enwee ike tufuo onye zitere ya.

## **Di iche iche:**

### Utilities

The utilities socat , *feh*, *buffer*, *mpv*, *yd-dlp*, *sed*, *xdotool*, *wmctrl* ga-aranye. A na-achoputa nke a na-akpaghi aka mgbe ị na-etinye ya site na ngwugwu nwunye Debian. O buru na akurungwa ndi a na-efu, dika n'oge ntinye akwukwo ntuziaka, aCSTV agaghi aru oru.

### Oke ndeputa owa

Site na ndeputa owa buru ibu nwere ihe kariri owa 40-50, nhazi site na aCSTV na-adiwanye nwayo. Maka iru oru ngwa ngwa na nchekwa aku, ị kwesiri ijide n'aka na ndeputa owa nwere oke na ndenye achoro n'ezie, yana mebie (kwuputa) ma ọ bu wepu ndenye niile na-enweghi atụ na ntola "*Dezie owa*" . Onu ogugu igodo enwere ike ikenye ihe ruru 264, dabere na onuogu mkpuru edemede kwa ntinye aha. O ga-ekwe omume na ahughi igodo nke nha a enweghizi ike igosi ezi uche na obere ihe nlele. A na-eleghara ndenye niile na-aga n'ihu nke ndeputa oke oke. Enwere ike kewaa nnukwu ndeputa owa n'otutu failu n'otu n'otu site na iji edito ederede di ka *Geany* ma ọ bu *Leafpad* , nke enwere ike horo site na iji botinu "*Change list Channel* " (akara ngosi: ) na ahụ igodo.

### Udi failu na ntughari

failu echekwara na usoro .ts nwere ike iji MPV kpoo azu ozugbo na antiX . O buru na-ichoro, inwere ike iji *ffmpeg tugharia ndeko ndeko mmemme echekwara site na usoro .ts* gaa na usoro failu ozo . Ntughari n'oge ndeko ga-ekwe omume naani na sistemu siri ike ma ya mere o bughị maka aCSTV. Ebe o bu na o gaghi ekwe omume iko udi usoro odu ugbo mmiri ga-ebufe, a choro ntakiri nnwale mgbe i na-atughari ma emechaa. O buru na usoro enwetara adabaghi na usoro ebumnuche, ma o bu vidiyo ma o bu data odiyo di n'ime ya, ma o bu ha abuo, ga-edoriri koodu ozo, ma o bughị ya, o ga-ezu iji meghachi ha na-agbanweghi agbanwe na usoro ebumnuche achoro.

Omumaatu:

- gaa *Matroska* , na-enweghi ntinye koodu  
ffmpeg -i './filename.ts' -map 0 -c oyiri './filename.mkv'
- ka *mp4* , na-enweghi re-  
encoded ffmpeg -i './filename.ts' -map 0 -c oyiri './filename.mp4'
- O buru na iyi data nke onye mgbasaa ozi na-ebufe ma chekwaa na failu .ts adabaghi na usoro ebumnuche ahoputara (dika *mp4* ), ntughari a agaghi aru oru ma na-ebute naani ozi njehie. N'okwu a enwere ike itinyeghari vidiyo a:  
ffmpeg -i './filename.ts' -c:v libx264 -c:otu './filename.mp4'
- Ma o bu deghari vidiyo na odiyo:  
ffmpeg -i './filename.ts' -c:v libx264 -c:a aac './filename.mp4'

Dabere na ike mgbako nke PC, nha failu na udi ntinye koodu, nhazi nwere ike iwe oge.