• scripts | scripts | |

• install.sh\_\_\_\_\_ scripts \_\_\_\_\_

```
magewell@magewell-MSB85TN-00:~/Downloads/ProCaptureForLinux_2140$
magewell@magewell-MSB85TN-00:~/Downloads/ProCaptureForLinux_2140$
magewell@magewell-MSB85TN-00:~/Downloads/ProCaptureForLinux_2140$
magewell@magewell-MSB85TN-00:~/Downloads/ProCaptureForLinux_2140$
magewell@magewell-MSB85TN-00:~/Downloads/ProCaptureForLinux_2140$
magewell@magewell-MSB85TN-00:~/Downloads/ProCaptureForLinux_2140$
magewell@magewell-MSB85TN-00:~/Downloads/ProCaptureForLinux_2140$
magewell@magewell-MSB85TN-00:~/Downloads/ProCaptureForLinux_2140$
magewell@magewell-MSB85TN-00:~/Downloads/ProCaptureForLinux_2140$
magewell@magewell-MSB85TN-00:~/Downloads/ProCaptureForLinux 2140$
magewell@magewell-MSB85TN-00:~/Downloads/ProCaptureForLinux 2140$ ll
total 68
drwxrwxr-x 5 magewell magewell 4096 11月 27 17:37 ./
drwxr-xr-x 15 magewell magewell 4096 11月 26 09:28 ../
drwxrwxr-x 2 magewell magewell 4096 11月 26 09:28 bin/
                                     38 11月 23 14:18 install.sh*
-rwxrwxr-x 1 magewell magewell
             1 root root 37567 11月 27 17:37 mwcap_install.log
1 magewell magewell 888 11月 23 14:18 quick_start.txt
            1 root
- FW- F-- F--
- - W - L - -
drwxrwxr-x 2 magewell magewell 4096 11月 26 09:28 scripts/
drwxrwxr-x 5 magewell magewell 4096 11月 26 09:28 src/
magewell@magewell-MSB85TN-00:~/Downloads/ProCaptureForLinux_2140$
magewell@magewell-MSB85TN-00:~/Downloads/ProCaptureForLinux_2140$
magewell@magewell-MSB85TN-00:~/Downloads/ProCaptureForLinux_2140$
magewell@magewell-MSB85TN-00:~/Downloads/ProCaptureForLinux_2140$
```

- - Fedora CentOS RHEL: sudo yum install kernel-devel
- nnnnnn install.sh nnnnnnnnnnnnnnnnnnnnn

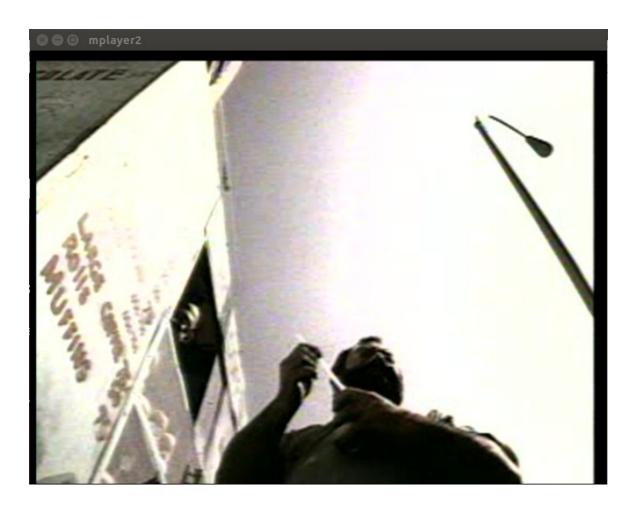
```
Install Successfully!
For more information please check the docs directory or contact support@magewell.net.
!!!Previous installed module already loaded, reboot is needed!
Do you wish to reboot now (Y/N) [N]: n
Reboot canceled! You should reboot your system manually later.
```

- □□ mwcap-info □□□□□□

#### ППП

∘ □□□□ gst-launch-1.0 v4l2src device=/dev/video0! video/x-raw,width=720,height=576,

format=RGBx,framerate=30/1! videoconvert! autovideosink



\_\_\_\_\_Linux \_\_\_\_\_

- 1 || V4L2 || || || (eg. /dev/video0) ||

# 4.1 mwcap-info

-h	
-1	
-q	
-i orinfo-all	
info-device	
info-input-all	
info-input-vid	
e0	
info-input-au	

dio	
info-input-sp ecific	
-V	0000000 ID, 0000000 V4L2 000000000000000000
-a oralsa-na me	0000000000, 000000 ALSA 0000000000000000
alsa-name-m player	0000000000, 000000 mplayer 000 ALSA 0000000000000000
alsa-name-p a	Paulse Audio
-c	000000000 ID, 00000 ID 0000000000000000

## Example□

#### 

\$ mwcap-info -I

```
magewell@magewell-MSB85TN-00:~/Desktop/trunk1/trunk/docs$ mwcap-info -l
total: 1
device path firmware ver hardware ver driver ver alsa name
/dev/video0 1.20 A 1.2.2140 hw:2,0
magewell@magewell-MSB85TN-00:~/Desktop/trunk1/trunk/docs$ [
```

## 

\$ mwcap-info -q /dev/video0

-- or --

\$ mwcap-info -q 0:0

```
magewell@magewell-MSB85TN-00:~/Desktop/trunk1/trunk/sdk/bin$ ./mwcap-info -q 5:
total 1
device path
                firmware ver
                                hardware ver
                                                driver ver
                                                                alsa name
capture device Name
/dev/video0
                                                                hw:2,0
                1.20
                                Α
                                                1.2.2140
05:00 Pro Capture HDMI
magewell@magewell-MSB85TN-00:~/Desktop/trunk1/trunk/sdk/bin$
magewell@magewell-MSB85TN-00:~/Desktop/trunk1/trunk/sdk/bin$
```

#### 

```
$ mwcap-info -i /dev/video0
```

-- or --

\$ mwcap-info --info-all 0:0

## • 0000000000

\$ mwcap-info --info-device /dev/video0

-- or --

\$ mwcap-info --info-device 0:0

```
magewell@magewell-MSB85TN-00:~$ mwcap-info --info-device 5:0
Device
 Family name ..... Pro Capture
 Product name ...... Pro Capture HDMI
 Firmware name ...... High Performance Firmware
 Serial number ...... A104150202001
 Hardware version ..... A
 Firmware version ..... 1.20
 Driver version ..... 1.2.2140
 Board ID ..... 5
 Channel ID ..... 0
 Bus address ..... bus 1, device 0
 PCIe speed ..... gen 2
 PCIe width ..... x1
 Max playload size ...... 128 Byte
 Max read request szie ...... 256 Byte
 Total memory size ...... 268435456 Byte
 Free memory size ...... 74715136 Byte
 Max input resolution ...... 2048x2048
 Max output resolution ...... 2048x2048
 Chipset temperature ...... 72.1
```

#### • 000000000

- \$ mwcap-info --info-input-all /dev/video0
- -- or --
- \$ mwcap-info --info-input-all 0:0
- 000000000
  - \$ mwcap-info --info-input-video /dev/video
  - -- or --
  - \$ mwcap-info --info-input-video 0:0

```
magewell@magewell-MSB85TN-00:~$
magewell@magewell-MSB85TN-00:~$ mwcap-info --info-input-video 5:0
Input common
 Video input ..... HDMI
 Audio input ..... HDMI
 Auto scan ..... Yes
 AV Link ..... Yes
Input video
 Signal state ..... Locked
 Resolution ...... 1280x720p 50.03 Hz
 Aspect ..... 16:9
 Total size ...... 1980x750
 X offset ..... 260
 Y offset ..... 25
 Color space ..... YUV BT.709
 Quantization ..... Limited
 Saturation ..... Limited
```

# · 00000000

- \$ mwcap-info --info-input-audio /dev/video0
- -- or --
- \$ mwcap-info --info-input-audio 0:0

\$ mwcap-info --info-input-specific /dev/video0

-- or --

\$ mwcap-info --info-input-specific 0:0

```
magewell@magewell-MSB85TN-00:~$ mwcap-info --info-input-specific 5:0
Input common
 Video input ..... HDMI
 Audio input ..... HDMI
 Auto scan ..... Yes
 AV Link ..... Yes
Input specific
 Signal status ..... Valid
 Mode ..... HDMI
 HDCP ..... No
 Color depth ...... 8 bits
 Pixel encoding ...... Y/U/V 4:4:4
 VIC ...... 19
 IT content ...... False
 Timing - Scanning format ..... Progressive
 Timing - Frame rate ...... 50.03
 Timing - H Total ..... 1980
 Timing - H Active ..... 1280
 Timing - H Front porch ..... 440
 Timing - H Sync width ..... 40
 Timing - H back porch ..... 220
 Timing - H field 0 V total ..... 750
 Timing - H field 0 V active ..... 720
 Timing - H field 0 V front porch ...... 5
 Timing - H field 0 V sync width ...... 5
 Timing - H field 0 V back porch ...... 20
 Timing - H field 1 V total ..... 0
 Timing - H field 1 V active ..... 720
 Timing - H field 1 V front porch ...... 5
 Timing - H field 1 V sync width ...... 5
 Timing - H field 1 V back porch ...... 20
```

## • 000000 V4L2 000000, 00000000000

\$ mwcap-info -v 0:0

\$ gst-launch-1.0 v4l2src device=`mwcap-info -v 0:0`! video/x-raw,width=720,height=576,

format=RGBx,framerate=30/1! videoconvert! autovideosink

```
magewell@magewell-MSB85TN-00:~$
  magewell@magewell-MSB85TN-00:~$ mwcap-info -v 5:0
  /dev/video0
  magewell@magewell-MSB85TN-00:~$
• 000000 ALSA 00000, 0000000000
  $ mwcap-info -a /dev/video0
  -- or --
  $ mwcap-info --alsa-name 0:0
  $ gst-launch-1.0 alsasrc device=`mwcap-info -alsa-name 0:0`!'audio/x-
  raw,format=S16LE,rate=44100,channels=2'! autoaudiosink
  magewell@magewell-MSB85TN-00:~$ mwcap-info --alsa-name 5:0
  hw:2,0
  magewell@magewell-MSB85TN-00:~$
• 00000 Mplayer 000 ALSA 000000, 00000000000
  $ mwcap-info --alsa-name-mplayer /dev/video0
  -- or --
  $ mwcap-info --alsa-name-mplayer 0:0
  $ mplayer tv:// -tv
  driver=v4l2:device=/dev/video0:width=1280:height=720:outfmt=yuy2:
  alsa:adevice=`mwcap-info --alsa-name-mplayer /dev/video0`:forceaudio
  magewell@magewell-MSB85TN-00:~/Desktop/trunk1/trunk/sdk/bin$ ./mwcap-info --als
  a-name-mplayer 5:0
  hw.2,0
  magewell@magewell-MSB85TN-00:~/Desktop/trunk1/trunk/sdk/bin$
∘ □□□□□□ Pulse Audio □□□□□□□
  $ mwcap-info --alsa-name-pa /dev/video0
  -- or --
  $ mwcap-info --alsa-name-pa 0:0
  magewell@magewell-MSB85TN-00:~$ mwcap-info --alsa-name-pa 5:0
  alsa_input.2.analog-stereo
  magewell@magewell-MSB85TN-00:~$
```

• 0000000 ID 00000

\$ mwcap-info -c 0:0