

Webcam picam raspberry

Instalamos raspbian con entorno gráfico:

```
dd if=2018-06-27-raspbian-stretch.img of=/dev/mmcblk0
```

Actualizamos paquetes:

```
apt-get update && apt-get upgrade
```

Instalamos aplicación para cambiar de escritorio:

```
apt-get install wmctrl
```

Añadimos 2 escritorios mas para tener 3:

```
wmctrl -n 3
```

Para cambiar de escritorio:

```
wmctrl -s 0  
wmctrl -s 1  
wmctrl -s 2
```

Activamos la camara y reiniciamos para que coja la configuración:

```
sudo raspi-config  
5: Interfacing Options  
P1 Camera
```

Instalación PICAM

<https://github.com/iizukanao/picam>

Creamos script para crear directorios:

```
cat > make_dirs.sh <<'EOF'  
#!/bin/bash  
DEST_DIR=~/.picam  
SHM_DIR=/run/shm  
  
mkdir -p $SHM_DIR/rec  
mkdir -p $SHM_DIR/hooks  
mkdir -p $SHM_DIR/state  
mkdir -p $DEST_DIR/archive  
  
ln -sf $DEST_DIR/archive $SHM_DIR/rec/archive  
ln -sf $SHM_DIR/rec $DEST_DIR/rec
```

```
ln -sfn $SHM_DIR/hooks $DEST_DIR/hooks
ln -sfn $SHM_DIR/state $DEST_DIR/state
EOF
```

Lo ejecutamos:

```
bash make_dirs.sh
```

```
wget
https://github.com/iizukanao/picam/releases/download/v1.4.6/picam-1.4.6-binary-stretch.tar.xz
tar xvf picam-1.4.6-binary-stretch.tar.xz
cp picam-1.4.6-binary-stretch/picam picam
```

```
#!/bin/bash
cd /home/pi/picam

./picam --alsadev hw:1,0 --previewrect 0,0,600,400 &

while true
do
    read -n1 -r key
    if [ "$key" = '' ]
    then
        mplayer -fs countdown.mp4
        touch hooks/start_record
        mplayer -noborder -vf scale -zoom -xy 300 -geometry 100%:0% 10.webm
        touch hooks/stop_record
        mplayer -fs final.mp4
    fi
done
```

Para ejecutar los vídeos en la capa encima de picam usar:

```
omxplayer --layer 32 countdown.mp4
```

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