

Linux & CLI Commands

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FFMPEG Commands

Cropping

Center Crop for Instagram:

```
ffmpeg -i ParticleSensor.mp4 -vf "scale=(iw*sar)*max(1080/(iw*sar)\,1080/ih):ih*max(1080/(iw*sar)\,1080/ih),  
crop=1080:1080" ParticleSensor_ig.mp4
```

Web Convert

OGV:

```
in_old = "path_to_vid.mp4"
in_new = ${in_old%.*}.ogv
ffmpeg -i $in_old -codec:v libtheora -qscale:v 6 -codec:a libvorbis -qscale:a 6 $in_new
```

Convert entire folder

```
for i in *.mov;  
do name=`echo "$i" | cut -d'.' -f1`  
echo "$name"  
ffmpeg -i "$i" "${name}.mp4"  
done
```

Hardware encoding

Intel example command:

```
ffmpeg -hwaccel vaapi -hwaccel_output_format vaapi -vaapi_device /dev/dri/renderD128 -i  
"${invid}" -codec:v h264_vaapi "${invid%._}_testHW.mp4
```

Images and PDFs

Images and PDFs

Convert PNG to Icon

first convert to 256

```
convert input.png -resize 256x256 output.png
```

last convert to icns

```
png2icns output.icns input.png
```


PDF to one image

```
convert in.pdf +append out%d.png
```

```
sudo apt install imagemagick
```

If convert is broken, update policy:

```
# Open the file
sudo nano /etc/ImageMagick-6/policy.xml

# find and edit the line
<policy domain="coder" rights="none" pattern="PDF" />
# to :
<policy domain="coder" rights="read|write" pattern="PDF" />
```

Images and PDFs

Raw to JPG

```
ufraw-batch --out-type jpeg *
```

DistroBox

Install Ubuntu in distrobox

Install Docker first:

```
# Add Docker's official GPG key:
sudo apt-get update
sudo apt-get install ca-certificates curl gnupg
sudo install -m 0755 -d /etc/apt/keyrings
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /etc/apt/keyrings/docker.gpg
sudo chmod a+r /etc/apt/keyrings/docker.gpg

# Add the repository to Apt sources:
echo \
  "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg]
https://download.docker.com/linux/ubuntu \
  $(. /etc/os-release && echo "$VERSION_CODENAME") stable" | \
  sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
sudo apt-get update
```

Post Docker install:

```
sudo groupadd docker
sudo usermod -aG docker $USER
newgrp docker
sudo chown "$USER":"$USER" /home/"$USER"/.docker -R
sudo chmod g+rwx "$HOME/.docker" -R

sudo systemctl enable docker.service
sudo systemctl enable containerd.service
```

Then setup Distrobox and Container:

```
sudo apt install distrobox && distrobox create --image ubuntu:22.04 --name ubuntu && distrobox enter ubuntu
```