# P1-JPEG:

#### Exercici 2:

Creem carpeta la Lab1 que és on realitzarem les accions:

```
cannot access 'DumpStack.log.tmp': Permission denied cannot access 'hiberfil.sys': Permission denied cannot access 'pagefile.sys': Permission denied cannot access 'swapfile.sys': Permission denied cannot access 'swapfile.sys': Permission denied config.Msi

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'Program Files (x86)'
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                                                                                                                                                                 DumpStack.log.tmp
   'Archivos de programa'
'Progra
rogeréLAPTOP-ULVA9RBV:/nnt/c$ 1s: cannot access 'DumpStack.log.tmp': Permission denied
ls: cannot access 'hiberfil.sys': Permission denied
ls: cannot access 'pagefile.sys': Permission denied
ls: cannot access 'swapfile.sys': Permission denied
ls: cannot access 'swapfile.sys': Permission denied

"SWINDOWS.-PI"
'Documents and Settings'
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'DumpStack.log.tmp'
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hiberfil.sys
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Users
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'Program Files (x86)'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    pagefile.sys
swapfile.sys
            Archivos de programa'
                                 roger@LAPTOP-ULVA9RBV:/mnt/c/Lab1$ ffmpeg

ffmpeg version 4.4.2-0ubuntu0.22.04.1 Copyright (c) 2000-2021 the FFmpeg developers

built with gcc 11 (Ubuntu 11.2.0-19ubuntu1)

configuration: --prefix=/usr --extra-version=0ubuntu0.22.04.1 --toolchain=hardened --libdir=/usr/lib/x86_64-linux-gnu --incdir=/usr/include/s

le-gnutls --enable-ladspa --enable-libaom --enable-libass --enable-libbsbb --enable-libcoc ble-libfreibtype --enable-libfribidi --enable-libsme --enable-libgsm --enable-libjack --enable-libmys-menable-libmys-enable-libshime --enable-libshime --enable-lib
```

#### Apliquem el resize 320x240:

```
roger@LAPTOP-ULVA9RBV:/mnt/c/Lab1$ ffmpeg -i Lenna.png -vf scale=320:240 output_320x240.png

ffmpeg version 4.4.2-0ubuntub.22.04.1 Copyright (c) 2000-2021 the FFmpeg developers

built with gcc 11 (Ubuntu 11.2.0-19ubuntul)

configuration: --prefix=/usr --extra-version=0ubuntu0.22.04.1 --toolchain=hardened --libdir=/usr/lib/x86_64-linux-gnu --incdir=/usr/include/x86_64-lengutls --enable-labspa --enable-libaoan --enable-libodic --enable-libgem --enable-libblavb --enable-libidaca --enable-libcdic --enable-libcdic --enable-libgem --enable-libjack --enable-libpsa --enable-libmysofa --enable-liboponjpeg --enable-libtimq --enable-librepty --enable-libshine --enable-libshine --enable-libspace --e
    Stream #9:0: Video: png, rgb24(pc), 512x512, 25 †ps
tream mapping:
Stream #0:0 -> #0:0 (png (native) -> png (native))
ress [q] to stop, [?] for help
utput #0, image2, to 'output_320x240.png':
Metadata:
encoder : Lavf58.76.100
      metadata:
encoder : Lavf58.76.100
Stream #0:0: Video: png, rgb24(pc, gbr/unknown/unknown, progressive), 320x240, q=2-31, 200 kb/s, 25 fps, 25 tbn
                  Metadata:
      Metdauta:
encoder : Lavc58.134.100 png
rame= 1 fps=0.0 q=-0.0 Lsize=N/A time=00:00:00.04 bitrate=N/A speed=0.771x
ideo:207kB audio:0kB subtitle:0kB other streams:0kB global headers:0kB muxing overhead: unknown
```

Apliquem el resize 100x100 i 500x100:

```
Apliquem el resize 100x100 i 500x100:

roger@laPTOP-ULVA9RGV:/mmt/c/Lab1$ ffmpeg = i Lenna.png -vf scale=100:100 100x100.png

ffmpeg version 4.4.2-0ubutudo.22.04.1 Copyright (c) 2000-2021 the Ffmpeg developers

built with gcc 11 (Ubuntu 11.2.0-19ubuntul)

configuration: -prefix=/usr --extra-version=0ubuntu0.22.04.1 --toolchain=hardened --libdir=/usr/lib/x86_64-linux-gnu --incdir=/usr/include/x86_64-linux

cgnutls --enable-libgap --enable-libsam --enable-libgus --enable-libjus --enable-libjus --enable-libido --enable-libcdoc --enable-libretetype --enable-libribidi --enable-libgme --enable-libjus --enable-libjus --enable-libido --enable-libshine --enable-libsme --enable-libjus --enable-libry --enable-libry --enable-libretetype --enable-libvetenad --enable-libshine --enable-libsmey --enable-libspex --enable-libspex --enable-libshine --enable-libshine --enable-libretetype --enable-libry --enable-libretetype --enable-librete
  libpostproc 55. 9.100 / 55. 9.100
nput #0, png_pipe, from 'Lenna.png':
Duration: N/A, bitrate: N/A
Stream #0:0: Video: png, rgb24(pc), 512x512, 25 fps, 25 tbr, 25 tbn, 25 tbc
tream mapping:
Stream #0:0 -> #0:0 (png (native) -> png (native))
ress [q] to stop, [?] for help
utput #0, image2, to '100x100.png':
Metadata:

produce
                 encoder : Lavf58.76.100
rencoder : Lavf58.76.100
recam #0:0: Video: png, rgb24(pc, gbr/unknown/unknown, progressive), 100x100, q=2-31, 200 kb/s, 25 fps, 25 tbn
Metadata:
```

#### Apliquem el resize 500x100:

```
V:/mnt/c/Lab1$ ffmpeg -i Lenna.png -vf scale=500:100 500x100.png
   fmpeg version 4.4.2-Oubuntu0.22.04.1 Copyright (c) 2000-2021 the FFmpeg developers
      built with gcc 11 (Ubuntu 11.2.0-19ubuntu1)
      configuration: \ --prefix=/usr \ --extra-version=0 ubuntu 0.22.04.1 \ --toolchain=hardened \ --libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-libdir=/usr/lib/x86\_64-linux-lib/x86\_64-linux-lib/x86\_64-linux-lib/x86\_64-linux-lib/x86\_64-linux-lib/x86\_64-linux-lib/x86\_64-linux-lib/x86\_64-linux-lib/x86\_64-linux-lib/x86\_64-linux-lib/x86\_64-linux-lib/x86\_64-linux-lib/x86\_64-linux-lib/x86\_64-linux-lib/x86\_64-linux-lib/x86\_64-linux-lib/x86\_64-linux-lib/x86\_64-linux-lib/x86\_64-linux-lib/x86\_64-linux-lib/x86\_64-linux-lib/x86\_64-lin
configuration: --prefix=/usr --extra-version=-dubmitub.22.04.1 --coolchain-landened liboln-yasrylby.kog_ov liboln | le-gnutls --enable-ladspa --enable-libacm --enable-libass --enable-libbluray --enable-libbs2b --enable-libmp3lame --enable-libfreetype --enable-libfribidi --enable-libgme --enable-libgsm --enable-libjack --enable-libmp3lame --enable-librabbitmq --enable-librubberband --enable-libshine --enable-libsnappy --enable-libsoxr --enable-libspeex --enable-lib bis --enable-libvpx --enable-libwebp --enable-libx265 --enable-libxml2 --enable-libxvid --enable-libzimg --enable-lib
        -enable-sdl2 --enable-pocketsphinx --enable-librsvg --enable-libmfx --enable-libdc1394 --enable-libdrm --enable-li
      --enable-sdl2 --enable-pocketsphinx --en
libavutil 56. 70.100 / 56. 70.100
libavcodec 58.134.100 / 58.134.100
libavdevice 58. 76.100 / 58. 76.100
libavfilter 7.110.100 / 7.110.100
libswscale 5. 9.100 / 5. 9.100
libswresample 3. 9.100 / 3. 9.100
libpostproc 55. 9.100 / 55. 9.100
    nput #0, png_pipe, from 'Lenna.png':
Duration: N/A, bitrate: N/A
Stream #0:0: Video: png, rgb24(pc), 512x512, 25 fps, 25 tbr, 25 tbn, 25 tbc
    tream mapping:
  Stream #0:0 -> #0:0 (png (native) -> png (native))
Press [q] to stop, [?] for help
Output #0, image2, to '500x100.png':
      Metadata:
                                                                        : Lavf58.76.100
            encoder
      Stream #0:0: Video: png, rgb24(pc, gbr/unknown/unknown, progressive), 500x100, q=2-31, 200 kb/s, 25 fps, 25 tbn
            Metadata:
                                                                              : Lavc58.134.100 png
                  encoder
                                   1 fps=0.0 q=-0.0 Lsize=N/A time=00:00:00.04 bitrate=N/A speed=1.44x
 video:134kB audio:0kB subtitle:0kB other streams:0kB global headers:0kB muxing overhead: unknown
```

```
roger@LAPTOP-ULVAORBV:/mnt/c/Labl$ ffmpeg -i Lenna.png -vf format=gray bw.png

ffmpeg version 4.4.2-0ubuntu0.22.04.1 Copyright (c) 2000-2021 the FFmpeg developers

built with gc 11 (Ubuntu 11.2.0-19ubuntu1)

configuration: --prefixe/usr -extra-version-0ubuntu0.22.04.1 --toolchain=hardened --libdir=/usr/lib/x86 64-linux-gnu --incdir=

le-gnutls --enable-ladspa --enable-libaom --enable-libass --enable-libbluray --enable-libsb2b --enable-libcadca --enable-libdidi --benable-libgma- --enable-libbluray --enable-libsb2b --enable-libspalame --enabl
                                                         Metadata:
                         encoder : Lavc58.134.100 png
frame= 1 fps=0.0 q=-0.0 Lsize=N/A time=00:00:00.04 bitrate=N/A speed=1.06x
video:218kB audio:0kB subtitle:0kB other streams:0kB global headers:0kB muxing overhead: unknown
```

### Imatge original Lenna:



#### **RESULTATS:**

#### 100x100:



## 320x240:



## 500x100:



### Bw:

