

Le blanchiment des images

— technical input (part 02)



Navigating files and directories

General syntax of a shell command

Loops

Variable

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Be creative



HOMEBREW

package manager

```
/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/  
Homebrew/install/HEAD/install.sh)"
```

Last login: Tue Apr 9 16:19:30 on ttys000

[berenice.serra@fhnw.ch@BA14AM55020 ~ % cd

berenice.serra@fhnw.ch@BA14AM55020 ~ % **/bin/bash -c "\$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"**

berenice.serra@fhnw.ch — ruby ◀ bash -c #!/bin/bash\012\012# We don't...

```
* [new tag]          4.2.1          -> 4.2.1
* [new tag]          4.2.10         -> 4.2.10
* [new tag]          4.2.11         -> 4.2.11
* [new tag]          4.2.12         -> 4.2.12
* [new tag]          4.2.13         -> 4.2.13
* [new tag]          4.2.15         -> 4.2.15
* [new tag]          4.2.16         -> 4.2.16
* [new tag]          4.2.17         -> 4.2.17
* [new tag]          4.2.2          -> 4.2.2
* [new tag]          4.2.3          -> 4.2.3
* [new tag]          4.2.4          -> 4.2.4
* [new tag]          4.2.5          -> 4.2.5
* [new tag]          4.2.6          -> 4.2.6
* [new tag]          4.2.7          -> 4.2.7
* [new tag]          4.2.8          -> 4.2.8
* [new tag]          4.2.9          -> 4.2.9
```

remote: Enumerating objects: 15, done.

remote: Counting objects: 100% (9/9), done.

remote: Total 15 (delta 9), reused 9 (delta 9), pack-reused 6

Unpacking objects: 100% (15/15), 2.23 KiB | 143.00 KiB/s, done.

From https://github.com/Homebrew/brew

```
* [new tag]          4.2.14         -> 4.2.14
```

Reset branch 'stable'

Updated 2 taps (homebrew/core and homebrew/cask).

Warning: /opt/homebrew/bin is not in your PATH.

Instructions on how to configure your shell for Homebrew
can be found in the 'Next steps' section below.

==> Installation successful!

==> Homebrew has enabled anonymous aggregate formulae and cask analytics.

Read the analytics documentation (and how to opt-out) here:

<https://docs.brew.sh/Analytics>

No analytics data has been sent yet (nor will any be during this **install** run).

==> Homebrew is run entirely by unpaid volunteers. Please consider donating:

<https://github.com/Homebrew/brew#donations>

==> Next steps:

– Run these two commands in your terminal to add Homebrew to your **PATH**:

(echo; echo 'eval "\$(/opt/homebrew/bin/brew shellenv)'"') >> /Users/berenice.serra@fhnw.ch/.zprofile

eval "\$(/opt/homebrew/bin/brew shellenv)"

– Run **brew help** to get started

– Further documentation:

<https://docs.brew.sh>

berenice.serra@fhnw.ch@BA14AM55020 ~ %

```
brew install packagename
```



FFmpeg

```
brew install ffmpeg
```

berenice.serra@fhnw.ch — ruby -W1 --disable=gems,rubyopt /opt/homeb...

```
##### 100.0%
==> Downloading https://formulae.brew.sh/api/cask.json
##### 100.0%
==> Downloading https://ghcr.io/v2/homebrew/core/ffmpeg/manifests/6.1.1_7
##### 100.0%
==> Fetching dependencies for ffmpeg: brotli, giflib, highway, imath, jpeg-turbo
, libpng, lz4, zstd, libtiff, little-cms2, openexr, webp, jpeg-xl, libvmaf, aom,
aribb24, dav1d, freetype, fontconfig, frei0r, gmp, libunistring, gettext, libid
n2, libtasn1, nettle, p11-kit, libevent, libnghttp2, unbound, gnutls, pcre2, gli
b, xorgproto, libxau, libxdmcp, libxcb, libx11, libxext, libxrender, lzo, pixman
, cairo, graphite2, icu4c, harfbuzz, lame, fribid, libunibreak, libass, libblur
ay, cJSON, libmicrohttpd, mbedtls, librist, libsoxr, libssh, libvidstab, libogg,
libvorbis, libvpx, opencore-amr, openjpeg, isl, mpfr, libmpc, gcc, openblas, nu
mpy, pugixml, python-packaging, snappy, hwloc, tbb, openvino, opus, rav1e, libsa
mplerate, flac, mpg123, libsndfile, rubberband, sdl2, speex, srt, svt-av1, lepto
nica, libb2, libarchive, pango, tesseract, theora, x264, x265, xvid, libsodium,
zeromq and zimg
==> Downloading https://ghcr.io/v2/homebrew/core/brotli/manifests/1.1.0-1
##### 100.0%
==> Fetching brotli
==> Downloading https://ghcr.io/v2/homebrew/core/brotli/blobs/sha256:2a95140d611
##### 100.0%
==> Downloading https://ghcr.io/v2/homebrew/core/giflib/manifests/5.2.1
```



```
brew install imagemagick
```

You  **-DL**



```
brew install yt-dlp
```

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cd Desktop

01 video download

yt-dlp '[https://www.youtube.com/watch?
v=r4sDXhHqndk](https://www.youtube.com/watch?v=r4sDXhHqndk)'

yt-dlp '[https://www.youtube.com/watch?
v=r4sDXhHqndk](https://www.youtube.com/watch?v=r4sDXhHqndk)'

```
yt-dlp -F 'https://www.youtube.com/watch?  
v=r4sDXhHqndk'
```

```
yt-dlp -f 270 'https://www.youtube.com/watch?  
v=r4sDXhHqndk'
```

02 image format conversion



```
mogrify -format finalformat *.currentformat
```

 conversion — -zsh — 80x24

[berenice.serra@fhnw.ch@BA14AM55020 conversion % cd /Users/berenice.serra@fhnw.ch]
/Desktop/conversion

berenice.serra@fhnw.ch@BA14AM55020 conversion % **mogrify -format jpg *.png**

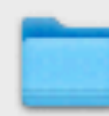
03 resizing images (all same dimensions)



```
for X in *.jpg; do  
    magick "$X" -resize 3000x2000 -strip -quality  
    86 "$X";  
done
```

WARNING

! the script directly replaces files and doesn't copy them !

 conversion — -zsh — 80x24

```
[berenice.serra@fhnw.ch@BA14AM55020 conversion % cd /Users/berenice.serra@fhnw.ch]  
/Desktop/conversion  
berenice.serra@fhnw.ch@BA14AM55020 conversion % for X in *.jpg; do convert "$X"  
-resize 3000x2000 -strip -quality 86 "$X"; done
```

04 read and write image metadata

```
brew install exiftool
```

exiftool IMG_4897.jpeg

```
exiftool -all= IMG_4897.jpeg
```

```
exiftool -all:all= -overwrite_original IMG_4897.jpeg
```

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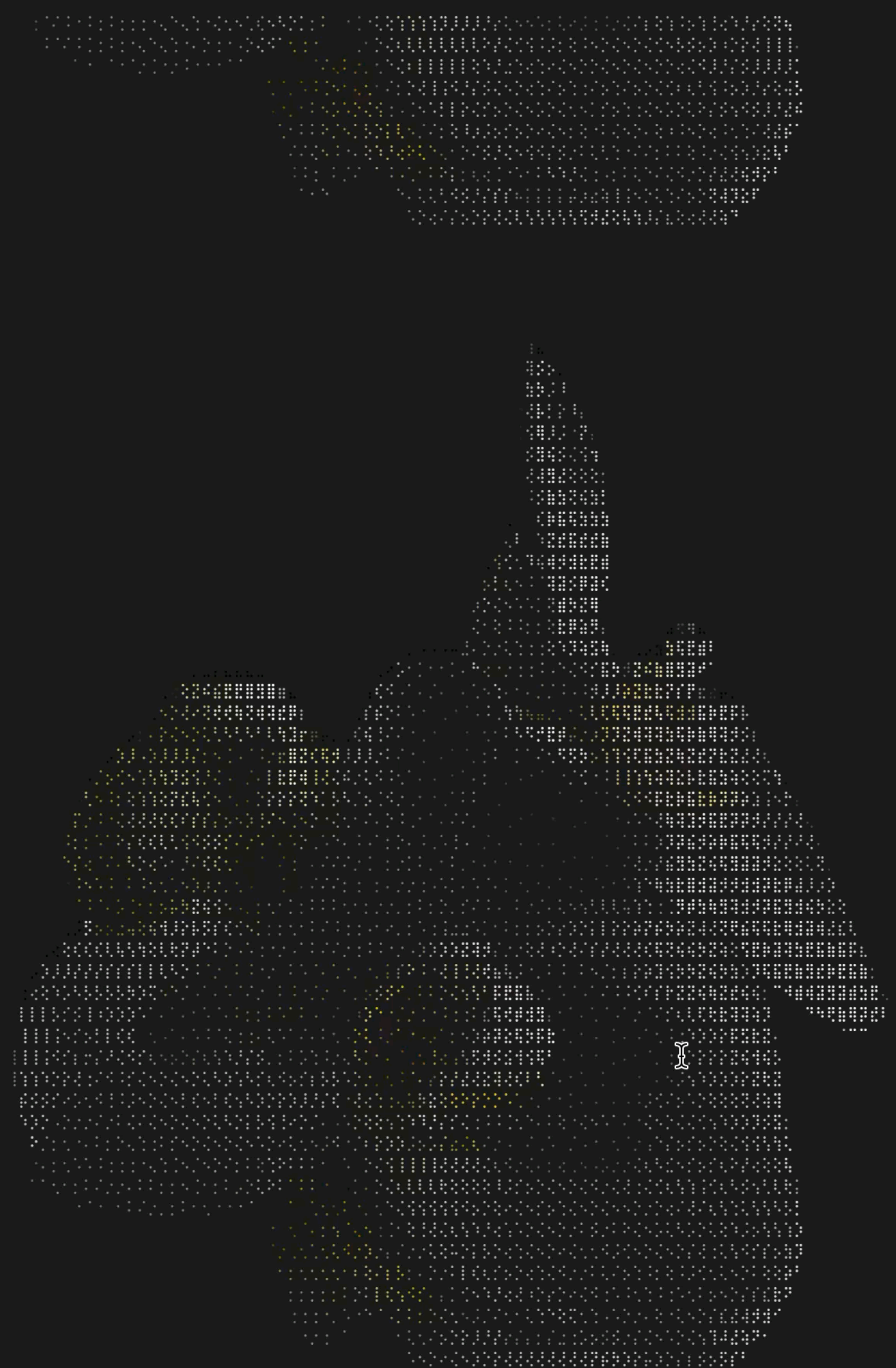
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^C

[joshualim@JoshuaPutangina gifs %

joshualim@JoshuaPutangina gifs % ascii-image-converter /Users/joshualim/Desktop/HGK/2.SEM_CreativeCoding_bereniceSerra/gifs/pingponk.gif --color --full --complex --