

Open-Source-Softwarepakete

Reto Kromer • AV Preservation by reto.ch

Memoriav-Workshop
Open Source im Archivalltag
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FFmpeg wird überall eingesetzt

- VLC und mpv
- Audacity und Handbrake
- QCTools und AEO-Light
- vrecord
- Google Chrome und YouTube
- «et cetera et cetera et cetera»

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Benutzerschnittstellen Interface utilisateur

- en: command-line interface (CLI)
de: Kommandozeile
fr: interface en ligne de commande
- en: graphical user interface (GUI)
de: grafische Benutzeroberfläche
fr: interface graphique

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Die FFmpeg-Familie

Programme

- ffmpeg
- ffprobe
- ffplay

Bibliotheken

- libavformat
- libavcodec
- libavfilter
- libavutil
- libavdevice
- libswscale
- libswresample
- libpostproc

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Mediaplayer

VLC (GUI)

→ www.videolan.org/vlc/

mpv (CLI/GUI)

→ mpv.io

ffplay (CLI)

→ ffmpeg.org

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Metadaten extrahieren

MedialInfo (GUI) and **mediainfo** (CLI)

→ mediaarea.net/MedialInfo

ffprobe (CLI)

→ ffmpeg.org

MedialInfo Parameter Definitions

→ <http://bits.ashleyblewer.com/mediainfo-definitions/>

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Metadata of all AV files

Bash AVpres (CLI)

→ avpres.net/Bash_AVpres/

`metadata_csv -i input_path`

`metadata_csv -h`

`man metadata_csv`

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Dateiumwandlungen

ffmpeg (CLI)

→ ffmpeg.org

FFmpeg Cookbook for Archivists

→ avpres.net/FFmpeg/

ffmprovizr

→ amiaopensource.github.io/ffmprovizr/

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Grafische Benutzeroberfläche

FFCommand Engine (GUI)

→ github.com/ColorlabMD/FFCommand_Engine



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A GUI for FFmpeg

FFCommand Engine (GUI)

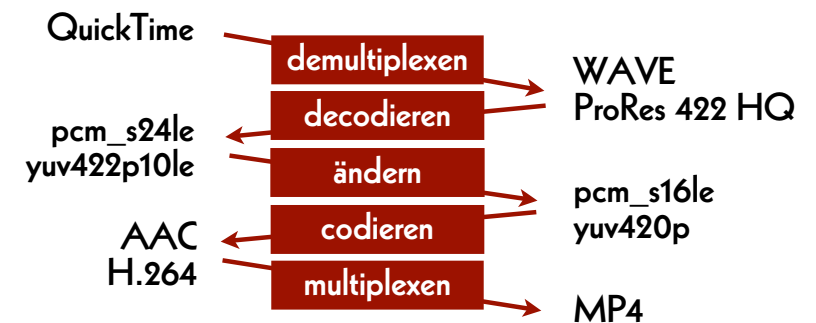
→ github.com/ColorlabMD/FFCommand_Engine

version 0.6 for macOS via Homebrew:

```
brew tap avpres/formulae
```

```
brew install --HEAD ffcommand-engine
```

Beispiel: Bild und Ton



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Programmbibliotheken

demultiplexen: libavformat

decodieren: libavcodec

ändern: libavfilter

codieren: libavcodec

multiplexen: libavformat

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Dateien und Folder kopieren

- Drag-and-drop
- Kopieren und Einfügen
- Terminal

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Terminal

- cp, gcp
- rcp, rsync

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Policy Checker

MediaConch (GUI, CLI, web)

→ mediaarea.net/MediaConch/

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MediaConchOnline

- mediaarea.net/MediaConchOnline/

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Quality control

- check technical metadata
- analyse signal
- watch image and listen sound
- difference file
- split screen

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Quality Control Tools

container and codec

- MediaInfo, ffprobe, MediaConch
- hexdump, fq

image and sound content

- QCTools, qcli, SignalServer
- VLC, mpv, ffplay

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Quality Control

QCTools (GUI), **qcli** (CLI)

→ bavc.org/preserve-media/preservation-tools

QCTools Documentation

→ bavc.github.io/qctools/

AV Artifact Atlas

→ bavc.github.io/avaa/

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A Bridge

RAWcooked (CLI)

→ mediaarea.net/RAWcooked

`rawcooked input_path`

`rawcooked rawcooked_input_file.mkv`

`rawcooked -h`

`man rawcooked`

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Make BagIt

Bash AVpres (CLI)

→ avpres.net/Bash_AVpres/

`make_bagit -i input_folder`

`make_bagit -h`

`man make_bagit`

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Verify BagIt

Bash AVpres (CLI)

→ avpres.net/Bash_AVpres/

`verify_bagit -i input_folder`

`verify_bagit -h`

`man verify_bagit`

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Undo BagIt

Bash AVpres (CLI)

→ avpres.net/Bash_AVpres/

`undo_bagit -i input_folder`

`undo_bagit -h`

`man undo_bagit`

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Video Transcoder

HandBrake (GUI)

→ handbrake.fr

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Audio Editor (and Recorder)

Audacity (GUI)

→ www.audacityteam.org

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Video Compositing

Natron (GUI)

→ natrongithub.github.io

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Compositing, Grading and Restoration

Resolve (GUI)

→ www.blackmagicdesign.com/products/davinciresolve

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Optical Sound Extraction

AEO-Light (GUI)

→ usc-imi.github.io/aeo-light/

AEO-Light Manual

→ github.com/usc-imi/aeo-light/releases/download/v2.2-beta/AEO-Light-2.2-beta-Manual.pdf

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DCP Encoder (and Player)

DCP-o-matic (GUI)

→ dcpomatic.com

DCP-o-matic users' manual

→ dcpomatic.com/manual/html/

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AV Preservation by
reto.ch

Sandrainstrasse 3
3007 Bern
Schweiz

reto.ch
info@reto.ch



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