

NAME

movimplay - MovIm player

SYNOPSIS

movimplay [*input_options*] **-i** *input_file* [*playing_options*]

movimplay -h

DESCRIPTION

MovIm is a video codec specifically designed for both conservation and restoration of moving images.

The **MovIm** package includes the **libmovim** C library implementing the **MovIm** video codec and its associated **movimenc**, **movimdec** and **movimplay** utilities, as well as the **openmovim** Bash command-line interface allowing to encode, decode, play and analyse virtually any moving images.

movimplay is a **MovIm** player.

OPTIONS**GENERAL OPTIONS**

-i *input_file*, **--input=***input_file*

The uncompressed or lossless compressed MovIm data can be used directly as a file (.movim). This format is directly inspired from FFmpeg's NUT container.

INPUT OPTIONS

--flip=(*vertical|horizontal*)

flip the image on the *vertical* or *horizontal* axis

This option may be repeated.

--rotate=*angle*

angle of counterclockwise rotation in degrees, expressed as an integer or a real number

This option may be repeated.

--lut[:*channel*]=*path*

path to an 1D LUT or a 3D LUT to apply

A LUT can be applied to the whole input file (default) or only to a single *channel*.

This option may be repeated.

For 1D LUT, which transforms e.g. from floating-point scene linear into camera log or a display-referred space, the maximum allowed size is currently 16'777'216, i.e. 24-bit precision.

PLAYING OPTIONS

The following list is not exhaustive.

--ignore=*channel[:bit_plane]*

ignore a full *channel*, or even only one single *bit_plane* of a *channel*

This option may be repeated and the order of the different **--ignore** and **--select** options is relevant.

Each bit-plane of each channel may be abbreviated as *all*, like in **--ignore=all**.

--select=*channel[:bit_plane]*

select one *channel*, or even only one single *bit_plane* of a *channel*

This option may be repeated and the order of the different **--ignore** and **--select** options is relevant.

The whole image is played by default, which is equivalent to **--select=all**.

--demosaic=(*BLI|BCI|LR|VNG|SI|PG|AMZE|HQLI|AHD|DLMMSEE*)

demosaic a Bayer-encoded *input_file*

This option allows to choose between different demosaicing algorithms, because the results may vary a lot, depending on the image content.

INFORMATIVE OPTIONS

-h, --help

display a help message

--version

display the installed version of **movimplay** in the date-based *YYYY-MM-DD* format and the implemented version of **MovIm** in the semantic *major.minor[.patch]* format:

```
movimplay 2024-01-27
MovIm 1.10.2
```

NOTES

Depending on the resolution, the number of channels, the bit-depth and the available computing power, the moving images may play very slowly, far below real time. The **--select** and **--ignore** options allow to play only some channels, or even only some bit-planes of channels.

movimplay is helpful when **libmovim** is used as a standalone library rather than as an embedded library into an application, such as a film or video restoration suite.

The author is indebted to Fabrice Bellard (and his **bpgview**), Ulrich Ruedel and **mpv** for the inspiration given.

SEE ALSO

movimdec(1) and **movimenc(1)**; **libmovim(1)**; **openmovim(1)**.

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