NAME

ffmpeg−scaler − FFmpeg video scaling and pixel format converter

DESCRIPTION

The FFmpeg rescaler provides a high-level interface to the libswscale library image conversion utilities. In particular it allows one to perform image rescaling and pixel format conversion.

SCALER OPTIONS

The video scaler supports the following named options.

Options may be set by specifying −*option value* in the FFmpeg tools, with a few API-only exceptions noted below. For programmatic use, they can be set explicitly in the `SwsContext` options or through the *libavutil/opt.h* API.

sws_flags

Set the scaler flags. This is also used to set the scaling algorithm. Only a single algorithm should be selected. Default value is **bicubic**.

It accepts the following values:

fast_bilinear
Select fast bilinear scaling algorithm.

bilinear
Select bilinear scaling algorithm.

bicubic
Select bicubic scaling algorithm.

experimental
Select experimental scaling algorithm.

neighbor
Select nearest neighbor rescaling algorithm.

area
Select averaging area rescaling algorithm.

bicublin
Select bicubic scaling algorithm for the luma component, bilinear for chroma components.

gauss
Select Gaussian rescaling algorithm.

sinc
Select sinc rescaling algorithm.

lanczos
Select Lanczos rescaling algorithm. The default width (alpha) is 3 and can be changed by setting `param0`.

spline
Select natural bicubic spline rescaling algorithm.

print_info
Enable printing/debug logging.

accurate_rnd
Enable accurate rounding.

full_chroma_int
Enable full chroma interpolation.

full_chroma_inp
Select full chroma input.

bitexact
Enable bitexact output.

srcw *(API only)*
Set source width.

srch *(API only)*
Set source height.

dstw *(API only)*
Set destination width.

dsth *(API only)*
Set destination height.

src_format *(API only)*
Set source pixel format (must be expressed as an integer).

dst_format *(API only)*
Set destination pixel format (must be expressed as an integer).

src_range *(boolean)*
If value is set to `1`, indicates source is full range. Default value is `0`, which indicates source is limited range.

dst_range *(boolean)*
If value is set to `1`, enable full range for destination. Default value is `0`, which enables limited range.

param0, param1
Set scaling algorithm parameters. The specified values are specific of some scaling algorithms and ignored by others. The specified values are floating point number values.

sws_dither
Set the dithering algorithm. Accepts one of the following values. Default value is **auto**.

auto
automatic choice

none
no dithering

bayer
bayer dither

ed error diffusion dither

a_dither
arithmetic dither, based using addition

x_dither
arithmetic dither, based using xor (more random/less apparent patterning that a_dither).

alphablend
Set the alpha blending to use when the input has alpha but the output does not. Default value is **none**.

uniform_color
Blend onto a uniform background color

checkerboard
Blend onto a checkerboard

none
No blending

SEE ALSO

ffmpeg (1), **ffplay** (1), **ffprobe** (1), **libswscale** (3)

AUTHORS

The FFmpeg developers.

For details about the authorship, see the Git history of the project (git://source.ffmpeg.org/ffmpeg), e.g. by typing the command **git log** in the FFmpeg source directory, or browsing the online repository at <**http://source.ffmpeg.org**>.

Maintainers for the specific components are listed in the file *MAINTAINERS* in the source code tree.