

**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 than 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 (<https://git.ffmpeg.org/ffmpeg>), e.g. by typing the command **git log** in the FFmpeg source directory, or browsing the online repository at <https://git.ffmpeg.org/ffmpeg>.

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