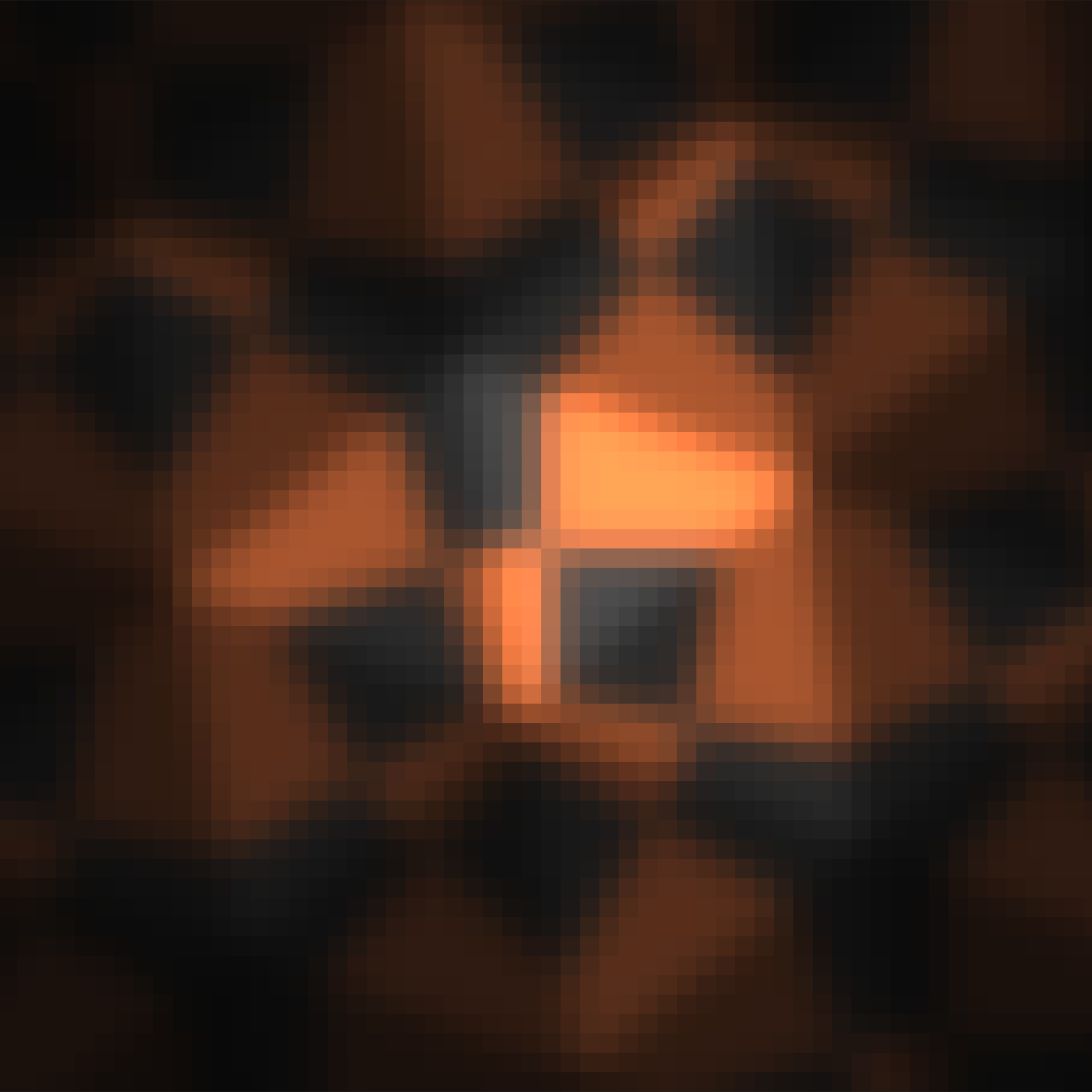


Malfunction v3

circuit-bent filter

AAX + **AU** + **VST** effect plugin for Mac/Windows/Linux

Designed and developed by **Sinevibes** ©2013-2026



INTRODUCTION

Malfunction is a circuit-bent filter. It's based on a unique experimental algorithm: a filter model whose internal connections have been intentionally tampered with. This virtual circuit produces a very specific, rough and screaming distortion that can instantly turn even the most primitive sounds into complex, expressive, glitchy and unpredictable textures that are full of character. To shape the sound further, **Malfunction** includes a super-smooth state variable filter with 5 modes and up to -48 dB/octave slope. Furthermore, both filters can be animated by two highly flexible, stereo LFOs – each featuring a huge collection of waveforms.

SOUND ENGINE

- One-of-a-kind circuit-bent filter algorithm with two distinct character modes and aliasing suppression using 4× oversampling
- Input noise gate with adjustable threshold
- Multi-mode state variable filter with up to four stages and five filter modes: Low-Pass, High-Pass, Band-Pass, Notch and Peaking
- Two advanced LFOs with through-zero phase design, optional BPM and transport sync, variable bipolar stereo offset, offering a total of 15 different waveforms
- Lag filters on all continuous parameters for smooth, click-free adjustment
- Supports mono › mono, mono › stereo, and stereo › stereo channel configurations

USER INTERFACE

- Color-coded control elements
- Consistent name, mapping, value, and unit implemented for all parameters in both graphic user interface and host control/automation
- Built-in preset management functions
- Supports window size scaling up to 200%

SUPPORTED FORMATS

Mac	AU/VST3/AAX for macOS 10.13 or newer (64-bit Apple Silicon and Intel)
Windows	VST3/AAX for Windows 8.1 or newer (64-bit Intel and AMD)
Linux	VST3 for Linux 2020 or newer (64-bit Intel and AMD)

INTERFACE

Malfunction features a fully vector-based interface, with color-coded elements for effective visual grouping. The plugin allows you to change its window size from 0.8× to 2× in 20% increments. The last size you set is stored in a preference file and is recalled the next time **Malfunction** is loaded.



- You can hold *shift* and drag a knob to adjust it with increased resolution.
- Use *option-click* (Mac), *alt-click* (Windows, Linux), or *double-click* on any control to recall its default setting.
- To fully initialize the plugin's parameters, load the *Default* preset from the *Factory* or the *User* bank.

CIRCUIT-BENT FILTER

Cutoff	20 .. 20000 Hz	Cutoff frequency of the circuit-bent filter
Resonance	0 .. 100 %	Resonance amount (emphasis) of the circuit-bent filter
Mode	〔 〕	Filter mode (character) selector: A (intense) or B (extreme)
Gate	-96 .. -12 dB	Threshold of the input noise gate: prevents the circuit-bent filter from self-oscillating when the input signal has a background noise
Level	0 .. 100 %	Output level of the circuit-bent filter before it's sent into the multi-mode filter

MULTI-MODE FILTER

Cutoff	20 .. 20000 Hz	Cutoff frequency of the multi-mode state variable filter
Resonance	0 .. 100 %	Resonance amount (emphasis) of the multi-mode filter
Slope	1 .. 4×	Amount of filter stages configured in series, providing from -12 to -48 dB/octave slope
Mode	〔 〕	Filter mode selector: Low-Pass, High-Pass, Band-Pass, Notch, Peaking
Mix	0 .. 100 %	Balance between the dry input signal and the wet processed signal

LOW FREQUENCY OSCILLATOR

Depth	-100 .. +100 %	Amount of the LFO signal applied onto the circuit-bent filter's Cutoff parameter
Frequency	-20 .. +20 Hz	LFO frequency in Hz (Sync switch is off); LFO phase is inverted at negative values
Rate	1/32 .. 32/1	LFO frequency as a host tempo fraction (Sync switch is on); the numerator and the denominator of the tempo fraction can be set independently
Sync	○ / ●	Defines whether the LFO frequency is set in Hz or as a fraction of the host tempo; when this Sync switch is on, the LFO phase will also be synchronized to the transport location
Waveform	〔 〕	LFO waveform selector: Sine, Triangle, Saw, Square, Pulse, Trapezoid, Flip, Parabolic, Cubic, S-curve, Exponent, Fin, Spike, 3-step, 4-step
Stereo	-180 .. +180 °	LFO phase offset within the stereo field: the right channel is shifted forwards (+) or backwards (-) in relation to the left channel by up to half of the waveform cycle

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PRESET FUNCTIONS

Malfunction features simple built-in functions for saving and loading presets, as well as for quickly switching between presets within the same bank. All these functions are accessed via the top toolbar.



Click the preset name at the top to show the list of presets in the current bank. Use *command-click* (Mac) or *control-click* (Windows, Linux) to reveal the actual preset file in the system file browser.



Switch to the previous preset in the current bank. The current bank is automatically set to wherever the last preset was loaded from.



Switch to the next preset in the current bank.



Show open file dialog with the list of preset banks. By default, the plugin includes two banks: *Factory* and *User*. However, you can freely create additional banks – simply by creating new subfolders.



Save current preset. Please note: due to the limitations of the typeface, you can only use latin letters when naming your presets



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DOWNLOADABLE SUPERPOWERS