

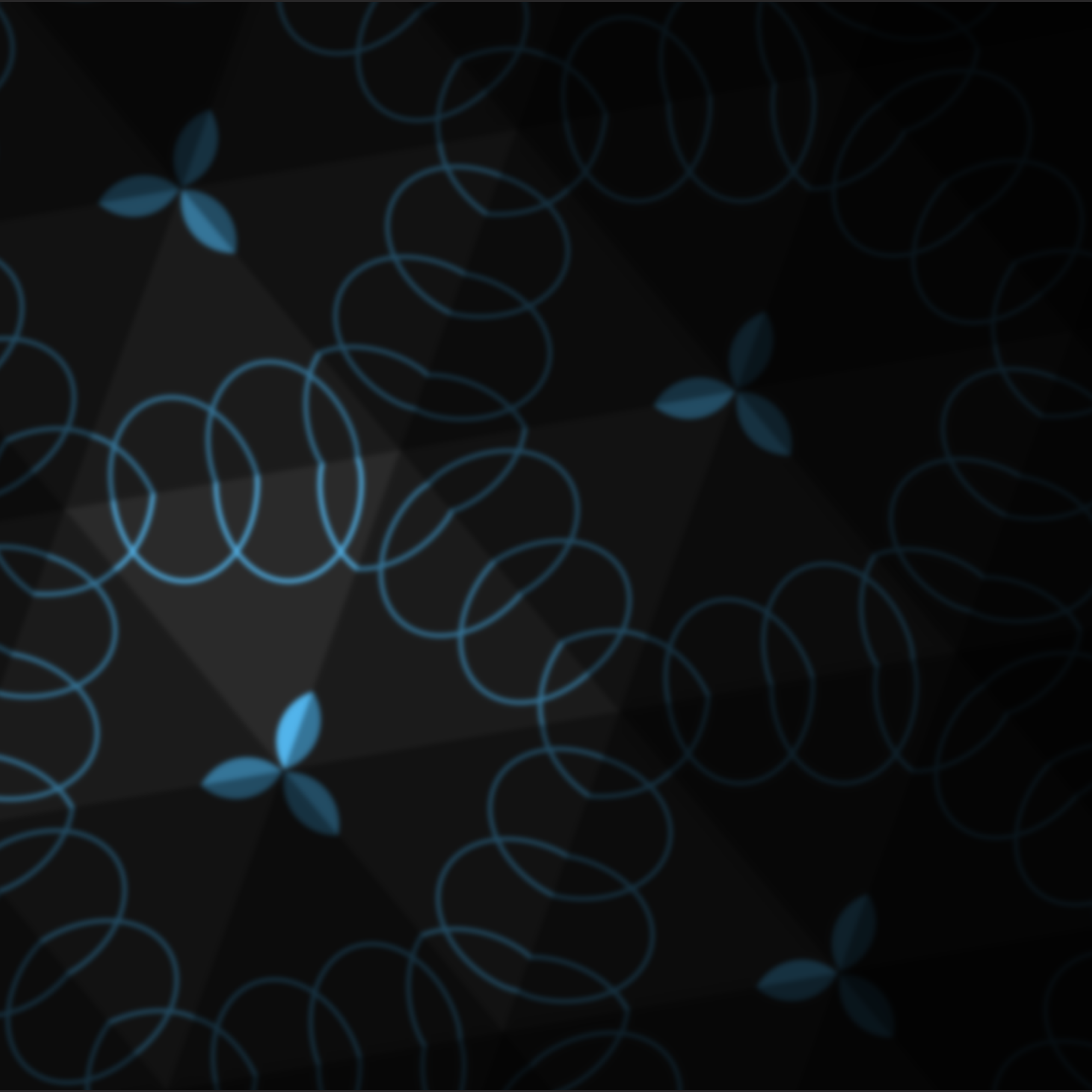


Whirl v2

Barber-pole phaser

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

Designed and developed by **Sinevibes** ©2018-2024



INTRODUCTION

Whirl is a barber-pole phaser. It is based on a Bode frequency shifter model with a feedback line, an algorithm which creates unique spectrum peaks and notches that move upwards or downwards in a seemingly endless fashion – with one spectrum sweep smoothly morphing into the next one, like an audible illusion.

Whirl features up to three fully synchronized barber-pole phaser stages: this allows you to control how gentle or dramatic the effect is. At its most extreme settings, **Whirl** is capable of deeply resonant filtering: it almost individually suppresses and accentuates different frequency harmonics. By design, the spectrum sweep frequency is bipolar - and can go from downwards to upwards motion and back completely seamlessly.

SPECIFICATIONS

SOUND ENGINE

- Barber-pole phaser based on Bode frequency shifter analog model, with up to three sequential stages and progressive feedback
- Frequency can be set in Hz or as host tempo fraction with precise transport location sync
- Variable bipolar stereo phase offset
- Lag filters on all continuous parameters for smooth, click-free adjustment
- Supports mono > mono, mono > stereo, and stereo > stereo channel configurations

GRAPHIC INTERFACE

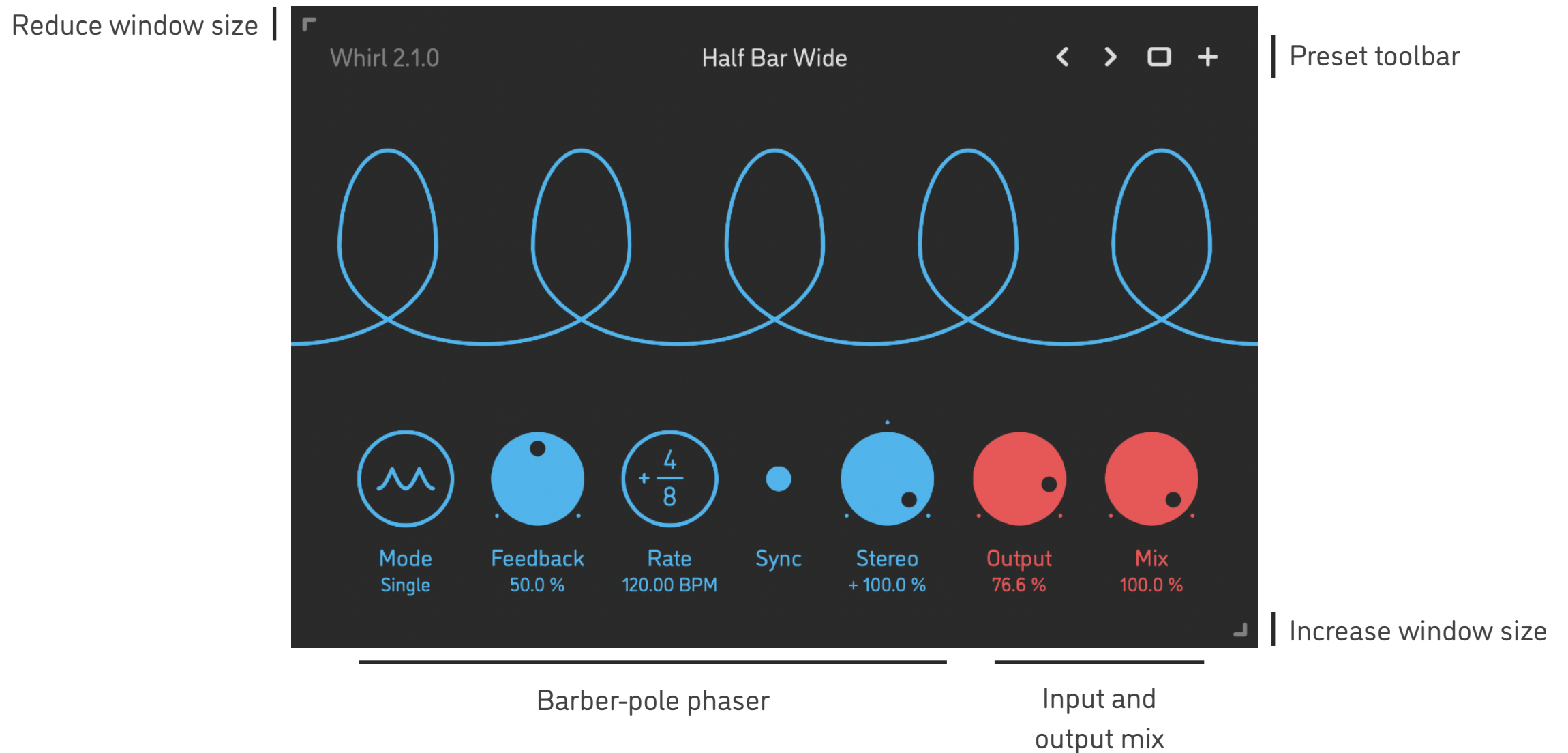
- Color-coded graphic elements
- Consistent name, mapping, value, and unit implemented for all parameters in both graphic user interface and host control/automation
- Built-in preset management functions
- Supports window size scaling up to 200%

SUPPORTED FORMATS

- **Mac:** 64-bit **AAX, AU, VST3** plugins for Intel and Apple Silicon processors, requires Metal graphics support and macOS 10.9 or later
- **PC:** 64-bit **AAX, VST3** plugins for x86 processors, requires Windows 8.1 or later
- **Linux:** 64-bit **VST3** plugin for x86 processors, requires a fairly recent Linux distribution

INTERFACE

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



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

PRESETS

Whirl 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.

Preset Name

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

PARAMETERS

Mode	...	Number of sequential barber-pole phaser stages
Feedback	0 .. 100 %	Amount of phaser's output signal being fed back into its input; higher values increase the contrast between dips and peaks in the spectrum
Frequency Rate	-20 .. +20 Hz -16/1 .. +16/1	Barber-pole phaser frequency in Hz (when the Sync switch is off) Barber-pole phaser frequency as a host tempo fraction (when the Sync switch is on) The spectrum sweeps are endlessly moving upwards with positive values (+) and downwards with negative values (-)
Sync	On / Off	Defines whether the phaser frequency is set in Hz or as a fraction of the host tempo; when this switch is on, the sweep motion phase is also being continuously synchronized to the host transport location
Stereo	-100 .. +100 %	Phase difference of the spectrum sweeps within the stereo field: the right channel is shifted forwards (+) or backwards (-) in relation to the left channel by up to half cycle
Output	0 .. 100 %	Wet output level of the barber-pole phaser
Mix	0 .. 100 %	Balance between dry input signal and wet output signal



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