

# **REPEATER** VINTAGE MODELLED DELAY



# User Manual

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### Requirements

Software and hardware requirements:



Windows PC

Windows 7 or newer
2.0 GHz SSE (Multicore 2.4 GHz recommended)
8 GB (16 GB Recommended)
VST2 / VST3 /AAX compatible host application (32bit or 64bit)



Apple Mac

OS version	OS X 10.13 or newer
CPU	Intel based 2.0 GHz (2.4 GHz recommended), Apple Silicon
RAM	8 GB (16 GB Recommended)
Software	AU / VST2 / VST3 / AAX compatible host application (64bit!)

Hardware requirements / recommendations are based on estimates performed on available computers at D16 Group HQ, and therefore cannot cover all possible configurations available on the market. CPU usage may vary widely depending on the manner in which the product is used. Factors that may contribute to variance in CPU usage include particular patch and its complexity, the global quality setting, project sample rate. In order to form a better understanding of how a plug-in will behave within your current setup, we highly recommend downloading the demo and giving it a try.

### **Preliminary information**

This chapter contains general advice for using the plug-in's interface.

#### To do a right-click on macOS with single button mice:

Either use your mouse click while holding the CTRL key on your keyboard or use two fingers on your touchpad.

#### Checking the value of a parameter

Right-click on any parameter to check its value in its context menu:

🔅 Parameter Name
0%
#
•

A parameter's context menu

Note: It's currently not possible to enter a precise value in the input box; it's just to check the value.

#### Fine-tuning continuous parameters

Tweak a control (knob) while holding the **CTRL key** (on **Windows**) or **Apple CMD** key (on **macOS**) - this will make the tweaking more precise while moving the mouse pointer up and down.

#### Double-click to reset a continuous parameter's value

Double-clicking on a parameter restores its value to the initial state, either default (right after loading the plug-in / loading it along a project file) or from the most recently loaded preset.

## Overview

**Repeater** is a **stereo delay** type effect processor with independent control of processing path for *left* and *right* channels. It also emulates the nature and of many various hardware devices of this kind (including the classic effect units).

When the plug-in is loaded to the hosting application its graphic interface appears:



Repeater graphical interface

Configuration and Preset management section:



Configuration and Preset management section

• And the **Signal processing** section consisting of the all remaining controls.

## Signal Flow

In general, the **Repeater** processing path may be described as two independent paths; *left* and *right* channel. Each path has an independent delay line and additional (identical for each channel) processing blocks, which enrich the overall capabilities. This chapter focuses on the description of the processing path and its components or the individual processing blocks and the parameters that control them.



Schematic diagram of the entire processing path

Each processing block refers to the specific GUI section. The order in which the blocks are described in this chapter reflects the order in which the signal is processed by these blocks.

# **Processing blocks before the feedback loop**

### Preliminary amplifier and audio clipper

Before the signal is fed to the feedback delay loop it is processed by the audio clipper block which results in the signal saturation which intensity depends on the gain controlled by the **INPUT** parameter and the ingoing signal's amplitude.



Pre-amplification and clipping blocks of the left and right channel

The parameters that control this section are as follows:

• **INPUT** – Controls the input signal gain from -12 up to +12 [dB].



Input parameter

**COLOR L, COLOR R** – The parameters that control the tone characteristics of the *left* and *right* channel audio clipper:



Left and right channel Color parameter

# **Delay line with feedback loop**

The Clipper's output signal is fed to the delay line with feedback loop;



Schematic diagram of Repeater delay line

Its operation is controlled by the following GUI section:



Repeater delay line parameter control section



Repeater Delay Line modifiers section

### **Delay line times**

**DELAY L** and **DELAY R** control (independently) the line delay times of the *left* and *right* channel from **0.1** up to **1000** *[ms]* (while tempo synchronization is disabled).



Delay L and Delay R parameters

Delay times may also be adjusted precisely by dragging the up-down mouse pointer above the digits representing the consecutive delay decimal position on the adjacent display:



Display with the current delay time for the left and right channel

#### Тар

**TAP** is used to set the delay time "*using ears*" by clicking **TAP** rhythmically. The plug-in measures the time between the consecutive clicks, averages it and sets it as a new delay time.



Tap button

This function is available only for the tempo synchronization being disabled

#### Synchronizing the delay line with the hosting application tempo

SYNC. MODE activates/deactivates the synchronization of the delay times with the hosting application tempo.



Sync. mode parameter

This parameter takes one of the two values:

- **DISABLED** Synchronization with the hosting application tempo is deactivated (default value) and the delay times are set in milliseconds.
  - **ENABLED** Synchronization with the hosting application tempo is active. In this mode the delays are set as note values (tempo-dependent units). It should be mentioned that when this mode is active the display showing the delay values looks slightly different:



Delay in the tempo synchronization mode

**DELAY L** and **DELAY R** parameters allow to select one of the following duration values for the delay time: 1/1, 1/2, 1/4, 1/8, 1/16, 1/32, 1/64 - for the left or right channel respectively.

Together with the **Note Value** we can select one of the three available **Modifiers** by clicking adequate area on the display (above).

- Full Delay time equals the duration of the selected Note Value exactly.
- **Triplet** Delay time equal to **2/3** of the duration of the selected **Note Value**.
- **Dotted** Delay time equal to **3/2** of the duration of the selected **Note Value**.

Keep in mind due to internal buffer's limitation maximum delay time can't exceed 10 seconds.

Toggling between SYNC. MODE states:

- From note duration to delay time [ms] when you switch from **Enabled** to **Disabled**.
- From delay time [ms] to note duration when you switch from **Disabled** to **Enabled**

In this case plug-in tries to estimate the closest note (for a given tempo) value corresponding to the given delay time since it can't be a precise value.

#### Spread

**SPREAD** is a *left* and *right* channel line delay time modifier. When this function is active a phase offset occurs between both delay lines, which makes an impression that the stereo scene is wider. The function operates with two intensity levels and is controlled with the **SPREAD** switch:

•	•	0 A B	
SYNC TAP	PING PONG	SPREAD	ANALOG

Spread parameter

It takes the following values:

- **OFF** Function inactive.
- **A** Function active with the lower intensity/smaller phase offset.
- **B** Function active with the higher intensity/larger phase offset.

### Feedback

Feedback value of the left and right channel delay lines is controlled with FEEDBACK L and FEEDBACK R, respectively.



Feedback L and Feedback R parameters

#### Analog mode

In this mode, the feedback loop works in analog-like fashion, which results in the sound becoming dimmer with each pass through the loop. **Analog** toggle button enables / disables this mode:



Analog button

#### **Ping-Pong**

By default *left* and *right* channel delay line feedback loops are separated and operate independently (**PING-PONG** is inactive). When the **PING-PONG** is active the feedback loops of both stereo channels are connected crosswise; the *left* channel loop connects with the *right* channel summing node and vice versa:



Feedback loops - Independent / separated (to the left) and connected in the Ping-Ping mode (to the right)

The effect is switch on/off with the toggle **PING-PONG** button:



Ping-Pong button

# Processing blocks after the feedback loop

This chapter describes the operation and control of the blocks processing the signal outgoing from the feedback loop delay line.

### **Phase inverter**

The signal from the feedback loop is fed to the **Phase inverter.** This block allows the signal phase be reversed (signal mirror reflection relative to the time axis).



Phase invert buttons

The **PHASE INVERT** toggle buttons activate the **Phase inverter** for: left channel - upper button or right channel - lower button.

### **Dual filter**

The signal from the **Phase inverter** is sent to the **Dual filter**. This module consists of two passive filters, **Low pass** and **High pass** which operate in the cascade. They allow to remove the harmonic content outside the band specified by the cut-off frequencies of these filters:



Dual filter frequency response

The **Repeater** path includes two **Dual filters**, one for each stereo channel, which are controlled from the following GUI section:



Filter cut-off frequencies for both stereo channels

The parameters available here are as follows:

- **HPF L** *Left* channel **High pass** filter cut-off frequency. Operating range from **40** up to **1000** [*Hz*]
- LPF L Left channel Low pass filter cut-off frequency. Operating range from 1 up to 22 [kHz]
- HPF R Right channel High pass filter cut-off frequency. Operating range from 40 up to 1000 [Hz]
- LPF R Right channel Low pass filter cut-off frequency. Operating range from 1 up to 22 [kHz]

#### **Stereo mixer**

The Stereo mixer is the subsequent block in the processing path. It has two functions:

Firstly, it provides independent panning of each stereo channel which actually implies that the **Repeater** may be considered as a delay effect with two independent processing paths rather than an effect with the stereo processing path with the independently controlled parameters of both (*left* and *right*) channels.

Secondly, it is able to mix the processed (Wet) signal with the unprocessed (Dry) signal independently for both stereo channels.



Signal flow through the Stereo mixer module

The Stereo mixer block is controlled from the following GUI section:



Stereo mixer section

The following parameters are available:

- PAN L, PAN R Re-panning the signal of the left and right channel, respectively.
- MIX L, MIX R Mixing together dry and wet signal for the *left* and *right* channel, respectively.

The **Padlock** icon in the upper-right corner is used to lock the **MIX L** and **MIX R** parameters, so when preset is loaded these remain unchanged



Parameter lock function

### **Master section**

The Master section is the last Repeater processing path's component:



Master section

Its parameter, **OUTPUT VOLUME**, is used to control the output signal gain from **-inf** up to **+12** [*dB*], and the VU-meter shown below (**OUTPUT METER**) indicates the current level of this signal.

# **Delay line models**

The previous chapters focused on specifying and describing the processing modules, which are the components of the **Repeater**; explaining their roles in this effect and their interconnections.

As already said at the beginning, the basic feature of the **Repeater** is its ability to emulate the tone characteristics of the whole variety of delay devices by selecting the line **Model** to be emulated by the plug-in. However, in spite of appearances, it does not mean that the set of available parameters or interface change. It does not mean that the set of available processing blocks and/or their interconnections change either. The Repeater delay line Model affects only its tone characteristics and the lowest level of the processing path (processing blocks' implementation to be precise).

The Model is changed by clicking the DELAY MODEL control:



Delay model parameter

Alternatively you can use Left and Right buttons to sequentially switch between the models.

There are several dozen models to select from:

- **Cassette Tape** A model of an early 80's Japanese cassette tape deck. Not too lofi or hifi, I'd call this one "mid-fi"!
- **Coopy Cube** An early 70's delay originally made from a garden hose! Great for short delays to add depth, use it at 15ms with the Spread option
- **Digital 42** One of the most famous modern digital delays, this one has a uniquely 'early digital' tone with a touch of graininess and a slight scoop. Sounds great on guitars and vocals.
- **Digital 42 x2** The double option on the digital 42, it halves the sample rate for an extremely unique lofi tone that is great on vocals, guitars, and drums.
- **Digital Delay** A hi resolution digital delay. Use RePeater's filters and color to customize the tone.
- **DM-2** An early bucket brigade analog delay with a warm and rich tone. Amazing on guitars and synths.
- Mellow Delay A smooth, subdued delay that is based on several vintage analog topologies.
- Memory Guy Lush analog delay with fat vintage tone.
- **Mirky Delay** Based on early bucket brigade analog delays, it is dark and thick. Great as a special effect delay or thickener when used with the Spread control.
- New Radio Delay tone with FM radio style 'scooped' hifi tone. Try it on vocals.
- Old Radio Delay tone with AM radio style grainy lofi tone
- **Pitchy Delays** Delays with slight pitch modulations for extremely spatial and deep effects. Sounds great when both delay lines are set to the same time creating a chorusing mono effect. These can also be used with tight delays with Spread A or B for widening and thickening effects.
- **Plexy Echo** Based on an old 70s tape delay unit. It's fat tone sounds great on vocals guitars and even drums.
- **Space Delay** Based on the famous magnetic tape delay with warm and gritty tone. A classic on guitars.
- **Tape Delay Ancient** An extremely old 1940's style tape delay tone.
- **Tape Delay Classic** Early 60's style tape delay.
- **Tape Delay Modern** Hifi tape delay with warm and lush tone.
- **Tape Delay Vintage** 70's style tape tone, slightly grainy but warm.
- **Telephone 1** Lofi telephone tone, great for special effects or used as an insert on vocal or even full mix
- **Telephone 2** Another lofi telephone tone with slightly different frequency and distortion tone
- **TelRay** The analog delay classic made original from a tuna can. Beautifully lofi with a rich tone that is perfect for guitars.

The individual delay line Models directly affect such plug-in operation aspects as:

- *Implementation of the delay line alone* thus affecting its tone characteristics which is connected with the signal degradation, possible detune or saturation.
- Feedback loop attenuation frequency response
- Dual filter calibration
- Feedback loop response

## Stereo link

The **Repeater** processing paths and blocks are identical for *left* and *right* channel. Owing to that, the sets of parameters controlling each of them are also identical. The GUI controls are located so that it is easier to see which parameters control the *left* or *right* channel path. So the upper row contains the controls for the *left* channel and the bottom row – for the *right* channel:



The upper row controls the left channel parameters and the bottom row - the right channel.

It is possible to link up the up-down parameters in pairs so that the given parameter value is identical for both channels. You can do it with the **LINK** LEDs located in the middle of the interface:



Link LEDs row to join the controls in pairs (left - right channel)

When the connection is enabled (LED is on) the controls are interconnected and any change of the value of one of these controls automatically changes the value of other control.

Win ( **ctrl** + Link ), Mac ( **cmd %** + Link ) - Links / Delinks all stereo control pairs.

# **Preset Management**

# **Preset storage**

**Presets**, both from **Factory** content and user ones, are stored as files in proper locations on the disc. Each time a plug-in instance is loaded into a project, these locations are scanned and the presets found there are consolidated into a single linear structure (list) in the **Preset Browser.** 

### **Browsing presets**

The **Preset management section** (no matter what kind of preset it concerns) enables quick navigation and browsing of the preset structure:



The Preset management section

- **PRESET** Displays the name of the currently loaded preset. Clicking the display opens the **Preset Browser** panel, allowing you to browse factory / user presets.
- **Prev / Next** Hovering over right side of the **Preset** display exposes the **Prev / Next** buttons: They allow for linear browsing of the presets list (depending on currently set filters - see sections below).
- Save D Saves current parameters as a new preset or allows for overwriting of the existing one (see sections below).

Right-clicking over the **Preset** display opens a context menu with two or three additional options:

- Init Restores initial settings of plug-in parameters.
- **Reload** Reloads the most recently loaded preset.
- Save D See description above.

The Preset Browser looks as follows:

<ul> <li>Sources</li> </ul>	Preset 1	Preset 20	Preset 38	Preset 56	Preset 25
Factory	Preset 2 Preset 3 Preset 4	Preset 21 Preset 22 Preset 23	Preset 40 Preset 41	Preset 57 Preset 58 Preset 59	▼ Tags
▼ Filter ●	Preset 5 Preset 6 Preset 7	Preset 24 Preset 25 Preset 26	Preset 42 Preset 43 Preset 44	Preset 60	Tag 1
Tag 1 Tag 2	Preset 8 Preset 9	Preset 27 Preset 28	Preset 45 Preset 46		Group 2 Tag 2 Tag 3
Group 2 Any	Preset 10 Preset 11	Preset 29 Preset 30	Preset 47 Preset 48		▼ Author
Tag 4 Tag 5	Preset 12 Preset 13 Proset 14	Preset 31 Preset 32 Proset 33	Preset 49 Preset 50 Proset 51		Author's name
	Preset 15 Preset 16	Preset 34 Preset 35	Preset 52 Preset 53		Preset's description
	Preset 18 Preset 19	Preset 36 Preset 37	Preset 54 Preset 55		
	Find preset	×			Cancel

The Preset Browser

There are four main parts:

- **Sources** Situated in the left column, filter content **Sources** for displayed presets.
- Filter Below Sources, a preset Filter that uses the Tags system.
- Results List of presets (shown in the middle column) from Sources that meet criteria set in the Filter.
- **Info pane** The right column shows information about the currently selected preset(s), divided into several subsections.

If available - For some preset types this button can be hidden and accessible from the contextual menu (accessible via right mouse-click on **Preset** display)

#### **Sources**

In this section, you can choose a Source / Source(s) that you want to browse presets from.

<ul> <li>Sources</li> </ul>		
	Factory	
	User	

Preset Sources

There are two resources to choose from:

- **Factory** Delivered together with the plug-in and cannot be modified (read-only).
- **User** Created by the user and can be freely modified or shared with other users.

Choosing any of them will cause the results to narrow to the presets from one resource.

### Filter

The section below is the **Filter**, which represents a preset filtering system using **Groups** and **Tags** to browse the content.

▼ Filter		
🖬 Group 1	Any	
Tag 1 Tag 2		
		•
🖬 Group 2	Any	
Tag 1 Tag 2 Tag 3		
Tag 4 Tag 5		

The Filter section

#### Groups and tags

Each **Preset** is described by a few common **Groups**. Within each of them there may be one or more **Tags** from a particular set.



The Filter group

Presets from the Factory resource were assigned Groups and Tags when they were created.

Groups and Tags describe the content clearly, taking into account the plug-in's purpose.

Editing of the **Groups** and **Tags** for **Factory** content is limited. User presets can be described with the same **Groups** and **Tags** as **Factory** content, or you may define additional **Tags** within factory **Groups** and even create your own **Groups** with your own **Tags** to describe your own presets.

The only limitation is that a user cannot remove factory Groups or Tags from Factory content.

### **Results**

This is a list of presets from chosen **Sources** that meet the filtering criteria. The basic function of this section is to browse and load presets. It can also be used for editing, which is described later.

Preset 1	Preset 20	Preset 38	Preset 56
Preset 2	Preset 21	Preset 39	Preset 57
Preset 3	Preset 22	Preset 40	Preset 58
Preset 4	Preset 23	Preset 41	Preset 59
Preset 5	Preset 24	Preset 42	Preset 60
Preset 6	Preset 25	Preset 43	
Preset 7	Preset 26	Preset 44	
Preset 8	Preset 27	Preset 45	
Preset 9	Preset 28	Preset 46	
Preset 10	Preset 29	Preset 47	
Preset 11	Preset 30	Preset 48	
Preset 12	Preset 31	Preset 49	
Preset 13	Preset 32	Preset 50	
Preset 14	Preset 33	Preset 51	
Preset 15	Preset 34	Preset 52	
Preset 16	Preset 35	Preset 53	
Preset 18	Preset 36	Preset 54	
Preset 19	Preset 37	Preset 55	

The Results list

- Click any name to choose and load the preset.
- **Double-click** the name to choose, load the preset and close the browser.

Hitting the **OK** button confirms loading a preset and closes the browser. Using **Cancel** closes the browser but reverts all parameter changes that loading a new preset might have caused.

riesel 47	•
Preset 48	▼ Author
Preset 49	Author's name
Preset 50	
Preset 51	<ul> <li>Description</li> </ul>
Preset 52	Preset's description
Preset 53	
Preset 54	
Preset 55	
₹ 🖸	Cancel



Using the X icon has the same effect as the OK button:

		×	
Preset 38 Preset 39 Preset 40	Preset 56 Preset 57 Preset 58	Preset 25	
Preset 41 Preset 42 Preset 43	Preset 59 Preset 60	Group 1 Tag 1	
Preset 44 Preset 45 Preset 46		Group 2 Tag 2 Tag 3	
Close Browser window			

### **Preset filtering using Groups and Tags**

The **Filter** section contains **Groups** of **Tags**. Each Group is represented by a rectangle with the **Group** name + set of **Tags** inside.



Group 2 with two tags set (Tag 2 and Tag 3)

The filtering process cascades from top to bottom. This means that all presets available in the selected **Sources** are filtered by selected **Tags** from the first **Group** (uppermost one), then the **Group** below and so on, until filtered by the last active **Group** (the bottom one).



Preset Filtering with the use of Groups

The result of the cascade filtering process is listed in the middle column, the **Results** / presets list section. You can also consider the **Results** list as an intersection of preset sets, found by filtering through every individual **Group**.

#### **Basic Actions**

**Tags** work as toggle buttons. Click to *activate / deactivate* a **Tag**; a gray background color means that the **Tag** is inactive, and orange means that the **Tag** is *active*.



Group 2 with two tags set (Tag 2 and Tag 3)

If at least one **Tag** in a **Group** is active, then the **Group** (filter) also becomes active, otherwise the **Group** chosen doesn't affect the filtering process at all.

#### **Group operator**

When a single Tag is active in a Group, only presets having that Tag set are displayed in the Results.

If two or more Tags in a Group are active, the Results depend on the Operator chosen for the Group:



A Group operator

The **Operator** button works in toggle mode and offers a choice of two alternative **Operators** for the **Group**:

- Any D Means that a preset is shown in the **Results** when the preset includes at least one of the active **Tags** from the **Group**.
  - All D Means that a preset is shown in the **Results** only when the preset includes all active **Tags** from the **Group**.

#### Filter enable / disable

You can quickly enable / disable the Filter using the toggle switch in the top-most section of the Filter:

<ul> <li>Filter</li> </ul>	
🖿 Group 1	Any
Tag 1 Tag 2	

An On/Off switch for a Group Filter

### **Other types of filtering**

#### Searching by name

Alternatively, you can look for a preset by entering its name or just a piece of its name into the **Find preset** field:



The Find preset input

The **Results** are refreshed on-the-fly and they work together with the other filters.

Using the X icon clears the entire field:

Looking for name	X	<b>T</b>

Clearing the search field

#### Filtering Favorite presets

You can mark presets as a **Favorite** by clicking the **Heart** icon while hovering on preset name **D**. You can unmark presets by clicking the icon again (toggle mode):





Logical OR between Tags in the Group

Logical AND between Tags in the Group

It's allowed for every **source** (factory or user)

The flag is stored globally, meaning that a **Favorite** preset will be accessible as such from every other instance of the plug-in **D**.

Once you have your Favorite presets flagged, you can quickly filter them using the toggle button with a Heart icon on it:

Find preset	×	

```
Favorite presets filtering
```

If the button is active, then only Favorite presets will be shown (considering all remaining filters).

#### Filtering Pinned presets

You can **Pin** one or more presets using the **Pin** icon while hovering over a preset name **D**. You can unpin a preset by clicking the icon again (toggle mode):



Pinning a preset on the list

Unlike **Favorites**, this flag works locally and it's stored with the project file (not global config), so **Pins** are stored individually for every instance (with total recall, so a plug-in state is recalled if saved in the context of a project).

But, similarly to Favorites, you can easily filter presets using the toggle button with the Pin symbol on it:



Pinned presets filtering

If the button is active, then only **Pinned** presets will be shown (considering all remaining filters).

### Info pane

The column to the right shows information about the selected preset or presets. It also provides access to some of the preset editing functions.

Preset Name	
▼ Tags	
Group 1	
Tag 2	
Group 2	
Tag 2 Tag 3	
▼ Author	
<ul> <li>Description</li> </ul>	

#### The Info pane

There's a preset name at the top.



The Preset name in the Info pane

Additionally, if you've selected more than one preset there's information about how many more have been selected:

Preset 33 Preset 34 Preset 44 Preset 54 Preset 55 Preset 55 Preset 55	8 9 0 1 2 3 4 5 6 6 7 8 9 9 0 1	Preset 56 Preset 57 Preset 58 Preset 59 Preset 60		Preset 47 + 4 more  Tags  Group 1 Tag 1 Tag 2  Group 2 Tag 2 Tag 3  Author  Description
--	--	---	--	--

Selecting more than one preset

Below the preset(s) name there are few common sections describing selected presets:

- Tags
- Author
- Description

### Browser's visual adjustments

### **Folding sections**

If you don't need to see the contents of every section / subsection, you can fold some of them up using the Caret icons:

Presets					×
<ul> <li>▶ Si urces</li> <li>▶ Fi er</li> <li>●</li> </ul>	Preset 1 Preset 2 Preset 3 Preset 4 Preset 5 Preset 6 Preset 7 Preset 8 Preset 9 Preset 10 Preset 11 Preset 12 Preset 13 Preset 15 Preset 16 Preset 16 Preset 18 Preset 19	Preset 20 Preset 21 Preset 22 Preset 23 Preset 24 Preset 25 Preset 26 Preset 27 Preset 27 Preset 28 Preset 29 Preset 30 Preset 30 Preset 31 Preset 32 Preset 33 Preset 34 Preset 35 Preset 35 Preset 36 Preset 37	Preset 38 Preset 39 Preset 40 Preset 41 Preset 42 Preset 43 Preset 43 Preset 45 Preset 45 Preset 46 Preset 47 Preset 48 Preset 48 Preset 50 Preset 51 Preset 52 Preset 53 Preset 53 Preset 54 Preset 55	Preset 56 Preset 57 Preset 58 Preset 59 Preset 60	Preset 25 Tr Js A t thor D t scription
	Find preset	×	<b>.</b>		Cancel

Sections folded up

#### **Resizing columns**

You can use the three-dotted handles to change a column's width to your preference.

Presets					×
Presets  Sources  Factory User  Filter  Group 1  ag 1  ag 2  ag 1  ag 2  ag 3  ag 4  ag 5	Preset 1 Preset 2 Preset 3 Preset 4 Preset 5 Preset 6 Preset 7 Preset 7 Preset 9 Preset 10 Preset 11 Preset 12 Preset 13 Preset 14 Preset 16 Preset 16 Preset 16	Preset 20 Preset 21 Preset 22 Preset 23 Preset 24 Preset 25 Preset 26 Preset 27 Preset 27 Preset 28 Preset 29 Preset 30 Preset 31 Preset 32 Preset 33 Preset 34 Preset 35 Preset 36	Preset 38         Preset 39         Preset 40         Preset 41         Preset 42         Preset 43         Preset 44         Preset 45         Preset 46         Preset 47         Preset 48         Preset 50         Preset 51         Preset 53         Preset 54	Preset 56 Preset 57 Preset 58 Preset 59 Preset 60	Preset 47 + 4 more • Tags • Tags • Group 1 Tag 1 Tag 2 • Group 2 • g 2 rag 3 • Author • Description
	Preset 19	Preset 37	Preset 55		
	Find preset	×			Cancel OK

Resizing Browser columns

# **Editing presets**

You can perform certain actions on presets, such as adjusting **Groups** and **Tags**, deletion, renaming the presets as well as their export or import. One should bear in mind, however, that some operations are only allowed on user presets but not on **Factory** content.

### **Preset selection for Edit**

Some operations can be done on more than one preset, so you're allowed to select more than one preset at once; in the **Results** section, you can choose a preset or a set of presets in the following ways:

- Click a preset Selects (and loads) one preset from the list.
- Win ( **ctrl** + **Click the preset**), Mac ( **ctrd H**) + **Click the preset**) Adds another preset to an already chosen preset or a set of presets.
- Shift + Click the preset Selects a range of presets from the last chosen preset to the preset clicked with the Shift key.
- Right-Click on any Preset in the Results section and choose the Select All option this selects all presets:



Selecting all presets

### **Preset renaming**

On a selected preset **D**, right-click to open the context menu and select the **Rename** option:

Select All	Π
Rename Delete	I
Pin Unpin	
Set favorite Clear favorite	

Preset renaming

**D** The option is available only for individual presets and won't work on a selection of two or more presets.

### **Preset deletion**

Once you have selected one or more presets, right-click to open the context menu and select the **Delete items D** option:



Deleting presets

Alternatively, you can use the Trash bin button in the Info pane to delete selected presets:

Preset Name	
▼ Tags	
🖿 Group 1	
Tag 2	

The Trash bin button

### **Tags editing**

When you select a preset or presets to change their tags, click the **Pencil** button next the **Tags** section in the **Info pane** to enter **Edit mode** for the **Tags**:

▼ Tags	
🖬 Group 1	
Tag 2	
Group 2	
Tag 2 Tag 3	

Entering the Tag edit mode

With the Edit mode enabled, you will see all possible Groups and Tags available for the preset(s):



The Tag Edit mode

**Tag** buttons work in toggle mode, much like filtering. Clicking them either sets or erases a **Tag** for a chosen preset. If a **Tag** is set for a preset, it is indicated by an orange background color, whereas if a **Tag** is not set, it has a gray background color.

If you choose multiple presets with existing tags, **Tag** buttons will appear orange if a specific **Tag** appears in all selected presets, and gray if it appears in none.

When a specific Tag is set only for a few of the selected presets, it appears as half-gray and half-orange.

La Group	
Tag	

Tags appearing only in part of selection

Changing the **Tag** status for one or more chosen presets sets or erases this **Tag** in all these presets. A status change is signaled by an **Asterisk** to the left of a **Tag**.



A Tag with a status change

Tag buttons highlighted in half-gray and half-orange color (where Tag values across the highlighted presets aren't all the same) workin a three-state system when switching between states; they turn gray if you erase the Tag for all selected presets, orange if you set the Tag for all selected presets, and return to half-gray and half-orange if the selected items remain unchanged or are returned to their initial state.

Potential changes have to be confirmed using the OK / Cancel buttons at the top part of the Tags section:



Confirmation buttons in the Tags section

### **Author editing**

When you select a preset or presets to change the **Author**, click the **Pencil** button next the **Author** section in the **Info pane** to enter the **Edit mode** for the **Author** field:

<ul> <li>Author</li> </ul>	
Old author's name	

Editing Author

Once you've finished editing the field, confirm the operation using the **OK / Cancel** buttons:



Confirming Author editing

This operation is possible for user content only.

### **Description editing**

When you select a preset or presets to change the **Description**, click the **Pencil** button next the **Description** section in the **Info pane** to enter the **Edit mode** for the **Description** field:

<ul> <li>Description</li> </ul>	
Old description	

**Editing Description** 

Once you've finished editing the field, confirm the operation using the **OK / Cancel** buttons:



Confirming Description editing

This operation is possible for user content only.

### **Setting presets as Favorites**

As described in the chapters above, you can mark a preset as a **Favorite** by clicking the **Heart** icon while hovering over the preset name:

Preset 5	
Preset 6	<b>₹ ♥</b>
Preset 7	

Setting a preset as a Favorite

The flag is stored globally, meaning that a **Favorite** preset will be accessible as such from every other instance of the plug-in **D**.

It's also possible to perform the operation for a selection of presets. After you select the desired presets in the **Results** window, right-click on the presets to open a context menu:

Preset 38	Preset 56
Preset 39	Preset 57
Preset 40	Preset 58
Preset 41	Preset 59
Preset 42	Preset 60
Select All	
Rename	
Delete	
Pin	
Unpin	
Set favorite	
Clear favorite	

Setting Favorite presets from the context menu

And select the Set favorite option.

To clear Favorite flags for the selection of presets, use the Clear favorite option instead.

### **Pinning presets**

You can Pin one or more presets using the Pin icon while hovering over the preset name:

Preset 5	
Preset 6	Ŧ
Preset 7	

Pinning a preset

Unlike **Favorites**, this flag works locally and it's stored with the project file (not globally). This means the **Pins** are stored individually for every instance (with total recall, so a plug-in state is recalled if saved in the context of a project).

It's also possible to perform the operation for a selection of presets. After selecting the desired presets in the **Results** window, right-click on the presets list to open the context menu:

Preset 38	Preset 56
Preset 39	Preset 57
Preset 40	Preset 58
Preset 41	Preset 59
Preset 42	Preset 60
Select All	
Rename	
Delete	
Pin	
Unpin	
Set favorite	
Clear favorite	

Pinning presets from selection

And select the **Pin** option.

To clear the **Pin** flag for a selection of presets, use the **Unpin** option instead.

### **Preset exchange**

If you want to make a backup, or exchange a preset with a collaborator, you can export / import selected presets.

#### Export

Select a preset or presets that you're going to export and drag-and-drop them outside your DAW into a location you'd like to store them:



#### Exporting presets

The presets will be saved as individual files (one per preset) in the plug-in's native format.

#### Import

If you'd like to import preset files, you can drag-and-drop preset files from where they're stored, into the preset browser:

	Presets		
Preset File Preset File Preset File	Presets  Sources  Factory  Ser  Filter  Group 1  Any  Tag 1 Tag 2 +  Group 2  Any  Tag 1 Tag 2 Tag 3  Tag 4 Tag 5 +	Preset 1 Preset 2 Preset 3 Preset 4 Preset 5 Preset 5 Preset 6 Preset 7 Preset 8 Preset 9 Preset 10 Preset 11 Preset 12 Preset 13	Preset 20 Preset 21 Preset 22 Preset 23 Preset 24 Preset 25 Preset 26 Preset 26 Preset 27 Preset 28 Preset 29 Preset 30 Preset 31 Preset 32
Preset File Preset File Preset File		Preset 14 Preset 15 Preset 16	Preset 33 Preset 34 Preset 35
		Preset 18 Preset 19	Preset 36 Preset 37
	•	Find preset	<b>x</b> ]

#### Importing presets

They will be automatically imported as user presets.

#### **Importing Patterns**

Specifically within the Pattern browser, it's possible to import:

- Native Phoscyon 2 patterns.
- Banks from legacy versions of the plug-in (**Phoscyon 1.x**) which will be accessible as alternative **Sources**, after you drag-and-drop them into the **Browser**.
- Patterns from Audiorealism ABL 2 or 3 instruments which will be included in User patterns after import.

# **Creating custom Tags and Groups structure**

### **Adding custom Tags**

Users are allowed to add their own custom **Tags** to both their own content and factory content. To add a new **Tag** to an existing filter **Group**, click over the **Group's** name to pull down a menu and select the **Add Tag** option **D**:



Adding a new Tag

You can do this either in the Info Pane (right column, while the Tag edit mode is enabled) or Filter (left column).

### **Editing custom Tags**

There are a few edit options available for a user to perform on their own **Tags**, which are available by right-clicking a **Tag's** name in the **Filter** section:

▼ Filter	
🖿 Group 1	Any
Tag 1 Tag 2	
🖿 Group 2	Any
Tag 1 Tag 2 Tag 3	
Tag 4 Tag 5	

The Filter section

You will see a context menu with all the available options:



Editing options for a user Tag

- Rename Changes the name of a Tag.
- Move to Moves a Tag to another Group.
- **Remove** Deletes a **Tag**.

The menu is accessible only for a user's own Tags.

### **Adding custom Groups**

You can add a custom filter to **Groups** by clicking the **Filter** label and selecting the **Add Group** option from the pull-down menu:



Adding a user Group

From here, you can add **Tags** to that newly created **Group** (see above), or move **D Tags** from other **Groups**.

You can also add a custom filter to Groups in the Info Pane (right column) or Filter (left column).

### **Editing custom Groups**

There are a few edit options available for a user to perform on their own **Groups**. Click on a **Group's** name in the **Filter** section:



#### The Filter section

You will see a context menu with the following options:

	User Group	
G	Add tag	
	Rename	
	Remove	
	Move up	
	Move down	

Edit options for a user Group

- Add Tag Adds a new tag to the Group (described earlier).
- Rename Changes the Group's name.
- **Remove** Deletes the Group, possible only when all Tags in the Group have also been removed.
- Move up Moves a Group up in the Filter. Possible unless the Group is already the topmost one.
- Move down Moves a Group down in the Filter. Possible unless the Group is the last one.

These operations are possible only on user Groups.

Groups in the Filter are ordered with Groups from Factory content first, then user groups below.

You can edit user **Groups** in either the **Info Pane** (right column, while **Edit mode** for **Tags** is enabled) or **Filter** (left column).

#### **Unassigned Tags**

When you receive content from a collaborator who uses different **Tags** and **Groups**, some Tags may show as **Unassigned**. This happens if the filter structure made by a preset's author is different.

Unassigned Tags

You can move the Tags across your Groups to make them fit your scheme, or re-tag the collaborator content entirely.

# Configuration

### **MIDI Learn**

Right-click any plug-in parameter to open the context menu:

: <b>)</b> : F	Parameter Name
0%	
•	#

A context menu

Left-clicking outside the menu area closes it automatically.

Clicking the bottom arrow expands the menu and displays all available options:

🔅 Parameter Name
0%
MIDI CC
#
Learn Clear

An expanded context menu

#### Linking a parameter to MIDI CC

The Learn function enables a quick assignment of physical controllers (from a MIDI controller) to plug-in parameters.

- 1. Click the Learn button to put the plug-in into a pending state before moving any MIDI CC controller.
- 2. Once the CC is recognized, click **OK** to save the change or click the **Cancel** button to restore the previous setting.



Linking a parameter to MIDI CC

### **Unlinking a parameter from MIDI CC**

You can also delete a MIDI CC code attributed to a parameter from the context menu:

1. From the context menu, click the **Clear** button:

🔅 Parameter Name	è	
0%		
MIDI CC		
#		
Learn Clear		

The Clear MIDI CC button

2. Then confirm using the **OK** button.

### Loading / Saving a MIDI CC Map

These options are available in the MIDI submenu, accessible under Cog icon in the left-upper corner:

MIDI	>	Load Map
GUI	>	Save Map
Quality	>	
Default State	>	
About		

The Load Map and Save Map options

- Save Map Saves the current MIDI CC map to a file.
- Load Map Loads a MIDI CC map from a stored file.

# **Quality settings**

The **Quality** submenu under **Cog** icon in upper-left corner allows to choose sound quality for **Real-time** or **Offline** modes.



Quality settings

The higher the quality, the bigger the impact on the CPU.

### GUI

The **Size**, **System Scale** and **Theme** options are accessible from **GUI** submenu under **Cog** icon in upper-left corner of the plug-in. With these, you can adjust look of the plug-in, according to the pixel density and resolution of your screen:



The GUI Size and System Scale options

### Size

This option lets you choose one of several default skin sizes to best match the plugin to the resolution of your computer monitor.

### **System Scale**

**System Scale** controls the rescale factor for the whole plug-in. For the best visual results, you should set it to the exact value from your system settings (screen properties).

### Theme

The Theme allows you to choose skin color variant according to your preference

# **Default Settings**

You can save your current settings so that the plug-in will default to them for each new instance, or restore the plug-in to load with its factory settings.

### **Changing default settings**

- 1. Click the **Cog** icon in the left-upper corner of the plugin.
- 2. Go to the **Default State** submenu and choose the **Save current** option.



Changing the default state of the plug-in

With this option, the current plug-in state will be saved as the default / initial state for when you insert a new instance of the plug-in.

The plug-in state includes: sound parameters (default preset), views, preset filters, sound quality settings, loaded / created MIDI CC map and GUI settings.

### **Restoring factory defaults**

To return the default state for new instances to factory settings:

- 1. Click the **Cog** icon in the left-upper corner of the plugin.
- 2. Go to the **Default State** submenu and choose the **Restore factory** option.