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Requirements

macOS Requirements

- Requires macOS v. 10.7 or later, or macOS 11
- x86 based processor 1.0Ghz, or above, with SSE, or M1 with Rosetta 2
- 512 MB RAM

Windows Requirements

- · Windows Vista or above
- x86 based processor 1.0Ghz, or above, with SSE
- 512 MB RAM

Linux Requirements

- x86 32-bit or or 64-bit based processor 1.0Ghz, or above, with SSE
- 512 MB RAM

The following shared object libraries are required:

- libfreetype
- libasound
- libXinerama

Shift2 Overview

What is Shift?

Shift is a real-time diatonic granular pitch shifting and delay effect. Shift has five independent true stereo delay voices with discrete tune, time, feedback, pan, filter, and volume controls. An XY Pad control gives at-a-glance visual feedback as to the state of the delay voices, and allows multiple parameters to be tweaked and played live.

Each voice can be transposed by as much as an octave up or down using both coarse semitone and finely grained cent amounts. In Echo Shift mode, echoes are fed back into the pitch shifter, continually transposing each individual repeat. In Diatonic mode, the accurate and responsive pitch tracker follows any monophonic audio source and tunes the pitch of the delay voice harmonies to remain in key and in scale.

Shift's echoes can either be synced to the host tempo (expressing delay times as musical subdivisions of a beat, with each echo exactly in time with the host) or in free-time mode (allowing fine tuning of the delay times, up to 2 seconds.) With four sync-able low frequency oscillator (LFO) components, each delay voice parameter can be independently modulated, generating a huge range of sounds, from subtle detuning to extreme audio mangling.

True independent stereo processing means that left and right channel separation is preserved. Shift is also capable or running in mono, or even mono to stereo.

Shift comes with over 100 built-in factory presets, each annotated and tagged so you can quickly locate them. Presets can even be 'hot-swap' previewed without losing your current sound. And with Partial Preset support, you can effortlessly share settings for the Delay Voices, Grain engine, and Diatonic Tracker between presets.

With optimised audio algorithms that won't overload your processor, rock-solid stability, and easy integration with any MIDI hardware controller, Shift2 is ideal for live work. With a simple and intuitive interface, flexible bank and program management, and total parameter automation, Shift2 fits right into your studio environment.

SHIFT2 OVERVIEW 7

Plug-in vs Standalone

Depending upon your individual studio setup, Shift2 can either be used as a plug-in component of a compatible host application, or as a standalone application requiring no other dependencies. Generally, by using the host application's routing flexibility, running as a plug-in allows easier integration with existing plug-in effects and instruments. If this integration is not required, the standalone version, without the burden of the host, performs very slightly better.

Presets and MIDI mapping assignments are identical in both standalone and plug-in versions. This means any sounds created in one format can be opened in the other.

Shift2 Formats

For macOS, the following formats are provided:

- Standalone application (64-bit)
- Audio Unit (AU) plug-in (32-bit and 64-bit)
- VST2 plug-in (32-bit and 64-bit)
- VST3 plug-in (64-bit)
- AAX plug-in (64-bit)

These formats are available for Windows PC:

- Standalone application (64-bit)
- VST2 plug-in (32-bit and 64-bit)
- VST3 plug-in (64-bit)
- AAX plug-in (64-bit)

These formats are available natively for Linux:

- Standalone application (32-bit and 64-bit)
- VST2 plug-in (32-bit and 64-bit)

Supported Channel Configurations

For maximum flexibility, Shift2 can be used in one of several possible input and output channel configurations. Shift2 is a true stereo effect: left and right channel separation is preserved. The following configurations are possible:

- mono to mono (1 input, 1 output)
- mono to stereo (1 input, 2 outputs)
- stereo to stereo (2 inputs, 2 outputs)

Note that some host applications may not support one or more of these configurations; consult your host's documentation for further details.

Installation and Registration

macOS Installation

- 1. Start the installation process by double-clicking the Shift2 installer application.
- 2. Read the introduction screen dialog text. Press *Continue* when you are ready to proceed.
- 3. Read the licence agreement. Click *Continue*, then *Agree* to confirm you have read and agreed to the licence terms.
- 4. Select a destination volume into which to install Shift2, and then click Continue.
- 5. From the list of installable components, uncheck any formats that you do not wish to install. Click *Continue* to proceed.
- 6. To complete the installation, press *Install*.

The components are, by default, installed into the following directories:

- VST2 plug-in into /Library/Audio/Plug-Ins/VST
- VST3 plug-in into /Library/Audio/Plug-Ins/VST3
- Audio Unit plug-in into /Library/Audio/Plug-Ins/Components
- AAX plug-in into /Library/Application Support/Avid/Audio/Plug-Ins
- Standalone application into /Applications
- Documentation into /Library/Documentation/Loomer

Windows Installation

- 1. Start the installation process by double-clicking the Shift2 installer application.
- 2. Read the welcome screen dialog text. Press *Next* when you are ready to continue.
- 3. Read the licence agreement. Click *I Agree* to confirm that you have read and agreed to it
- 4. From the list of installable components, uncheck any formats that you do not wish to install. Click *Next* to continue.
- 5. If you have chosen to include the VST plug-in format, select the directory into which it will install. Click *Next* to continue.
- 6. Select a directory into which the common files will install. The user documentation and the Standalone application (if selected in the list of components), will be placed in this location. To complete the installation, press *Install*.

Unless any other directories are selected during the installation, the components are installed into the following directories:

- VST2 plug-in into the VST plug-ins folder, which is, unless configured otherwise,
 C:\Program Files\Steinberg\VSTPlugins
- VST3 plug-in into the VST3 plug-ins folder C:\Program Files\Common\VST3
- AAX plug-in into C:\Program Files\Common Files\Avid\Audio\Plug-Ins
- Standalone application, documentation and default Bank into C:\Program Files\Loomer\Shift2.

Linux Installation

Shift2 for Linux is distributed as a standard Linux tarball. To install, extract the package using any unarchiving utility; the following command-line invocation will suffice:

```
tar xzvf Shift2.tar.gz
```

If you have a Linux VST host and have configured your VST Path, the VST plug-in can be moved into the required directory with the following commands:

```
cd Shift2
mv Shift2VST.so $VST PATH
```

Without the VST Path configured, you will need to ensure that your host uses the Shift2 directory when searching for VSTs; consult your host's documentation for information on how to do this.

Shift2 requires the following shared object libraries to be installed:

- libfreetype
- libasound
- libXinerama

Without these libraries installed, the application will not launch. Install the libraries using your distribution's particular package management system, such as apt-get; consult your Linux distribution documentation for more information.

Product Registration

Having installed Shift2, it will run in evaluation mode with the following limitations:

- User created presets can be saved, but not loaded.
- Output will be periodically interrupted, approximately every minute, by a short moment of silence.
- Audio wil be stopped altogether after approximately 30 minutes of continuous use. At this point, Shift2 must be restarted.

These limitations can be removed by purchasing a licence and registering your licence information into the product. Note that registering Shift2 on a particular machine will remove the evaluation limitations for all Shift2 plug-in formats installed on this machine; you don't need to individually register all plug-in formats. Licence information will be in the form of a user name and licence key.

To purchase a Shift2 licence:

- 1. Launch Shift2. This can be either the standalone application, or as a plug-in.
- 2. From the *options* menu (the cog button on the top-right of the interface), choose *Purchase Shift2 Licence*. This will launch the shop website, from where a Shift2 licence can be purchased by clicking *Add To Cart*, followed by *Checkout*. Follow the on-screen prompts to enter your payment details and make a secure purchase.
- 3. Once you have purchased Shift2, you will receive your licence key information via email. It is important to keep this information safe because you will require the licence key if you ever need to reinstall and re-register Shift2. If you have lost your licence details, please contact us. Licence keys are sent immediately upon purchase: if you haven't received yours within minutes of a purchase, either check your spam folder or contact us.

To register your copy of Shift2:

- 1. Choose Enter Shift2 Licence from the options menu.
- 2. Enter your name in the *Name* field. This must match exactly the name that was used to purchase your Shift2 licence, including capitalization of letters.
- 3. Enter your licence key in the *Licence Key* field. This must match exactly the licence that you received when you purchased Shift2, including any hyphens. We recommend using *copy* and *paste* to ensure that the licence key is entered exactly as specified in your registration email.
- 4. Press OK to confirm that your name and corresponding licence key have been entered. You will be informed that the application must be restarted in order for registration changes to take effect. If you are currently running the standalone application, close and relaunch it. If Shift2 is currently running as a plug-in, remove it from the host and add a new instance of it.
- 5. Shift2 should now be registered. If the label on the bottom of the interface still reads Unregistered Evaluation, you must have entered the licence information incorrectly. Go back to step 1, paying careful attention that the name and licence key entered match exactly the licence information in the registration email.

If you are having problems registering your installation of Shift2, please consult the detailed step-by-step instructions at www.loomer.co.uk/support.htm.

For Shift 1 Users

Shift 2 will install alongside earlier versions of Shift. Both versions can be installed and used together, even in the same project.

Shift 2 will open presets created for Shift 1, but due to the improvements in Shift 2's synthesis engine, they are not guaranteed to sound absolutely identical. In most cases the changes will be minor, and for the better. Any projects you have previously created using Shift 1 will not be changed, even when Shift 2 is installed.

Using Shift

Shift2 can be used as either an insert or send effect. When used as an insert effect, Shift2 is placed directly in a host's audio channel. As a send effect, Shift2 is placed in a host's auxiliary or bus channel, and a portion of the original signal is fed into the effect. Consult your host's documentation to find out how to add a plug-in as either an insert or as a send effect.

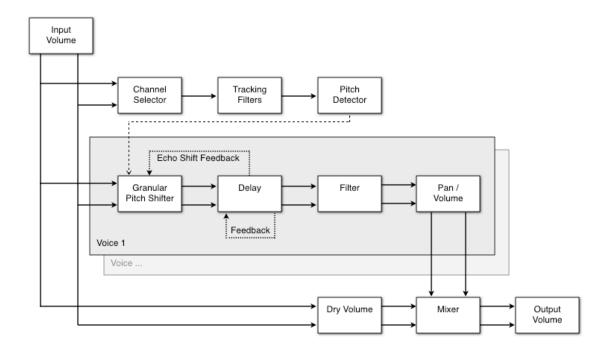


Figure 1: Shift's Audio Flow



Figure 2: Shift's Interface

Input and Output

The *INPUT* and *OUTPUT* section's controls balance the audio levels of signals as they enter and leave Shift. The *INPUT GAIN* control is used to boost or lower the input signal. An input signal that is too quiet can be amplified by increasing the *INPUT GAIN*. Likewise, a signal that is too loud can be attenuated by reducing it. The *diatonic pitch detection* works best on a clean, loud (but not clipped) signal.

The OUTPUT GAIN controls the overall loudness of Shift's audio output. An output signal that is too quiet can be amplified by increasing the Output. Likewise, a signal that is too loud can be attenuated by reducing it.

The *VU meters* can be used to provide visual cues to the current levels: the louder the signal, the higher the meter will register. Too loud of an output will produce digital clipping, a usually undesirable form of distortion. When this occurs, the meter will become red. Click the meter to reset the warning display. Note that output digital clipping only occurs at the end of a signal chain: even if the clip indicator shows, reducing the volume outside the plugin (by using the host's channel volume control, for example) will stop digital clipping.

Dry Mix

The *DRY* control specifies the amount of dry (unprocessed) input that is mixed into the output. Generally, when using Shift as a send effect, *DRY* will be set to its minimum value. The *freeze* button locks the *DRY* control to its current value, even when changing presets. This is useful when you are using Shift as a send effect (and so never want any unprocessed signal in the output) and are browsing presets which may have been saved with various values for *DRY*.

Delay Voices

Shift has five separate stereo delay voices. To select a voice to configure, click on the 1, 2, 3, 4, or 5 selector button. Each voice is entirely independent and has its own settings, which are:

- The *power* button turns the voice on and off. You can, at a glance, tell which voices are enabled by looking at the indicators above the voice selectors: they will be coloured if the voice is enabled, and grey otherwise.
- The MODE control selects the pitch-shifting and feedback modes for this voice, which can be:
 - No Echo Shift: the voice is not diatonic, the voice is pitch shifted, but delay repeats are not pitch shifted further.
 - No Echo Shift: the voice is not diatonic, the voice is pitch shifted, and delay repeats are pitch shifted with each echo.

Diatonic: the voice is shifted in harmony, according to the TRACKING / TUNING settings. Delay repeats are not pitch shifted any further. See the TRACKING PANEL.

- The TIME parameter controls the length of time between repeats. When TIME SYNC is turned on, the delay time is based upon musical note divisions and will be in step with the host tempo. With it off, the time delay is expressed in milliseconds. When time is set to 0, the voice will have no delay at all, and so can be used as a real-time pitch-shiter or filter. The denominator for synced time is globally set using the TIME QUANTIZE control, and TIME will snap to the nearest multiple of this value.
- The FEEDBACK parameter controls the proportion of the signal to be fed back into the delay line. As the value increases, the delayed signals volume will increase. At higher values, it is possible to create a wall of sound using delays that don't decrease in volume when they are fed back into the delay line. Beyond this, it is even possible to create delays that increase in volume. Warning: High feedback settings can produce dangerously loud signals that can damage both your ears and audio equipment.
- TUNE controls select the interval by which the signal will be pitch shifted. TUNE is either specified in semitones (when MODE is set to No Echo Shift or Echo Shift) or in diatonic intervals (when MODE is Diatonic). By default, the TUNE control changes in steps of whole chromatic intervals; to make finely grained changes, hold down shift whilst dragging the control.
- The FILTER TYPE control selects the type of filter for this voice. The filter types, from left to right, are OFF, LP (lowpass), BP (bandpass), and HP (highpass). Selecting OFF bypasses the filter completely. A lowpass filter removes all frequencies above the cutoff point; a bandpass filter removes all frequencies either side of the cutoff; a highpass filter removes all frequencies below the cutoff.
- CUTOFF sets the frequency at which the filter response begins. RES, an abbreviation for "resonance", controls the amount of amplification that occurs to frequencies at the CUTOFF point.
- The PAN parameter allows the delay voice to be balanced in the stereo panorama. Choose C to keep the signal centered, L1% to L100% to place the signal to the left (where L1% is slightly left of centre, and L100% is to the extreme left). Use R1% to R100% to place the signal to the right (where R1% is slightly right of centre, and R100% is to the extreme right).
- The VOLUME controls the relative loudness of the delay voice signal. 0.00dB is known as unity; at this point there is no change in volume entering or leaving a delay voice.

he settings for a delay voice can be stored in a *partial preset*; see the section on partsets for more details.

Modulation

The *MODULATION* controls are used to add time varying changes to Shift. A modulation LFO (low frequency oscillator) produces a constantly wavering signal that can be routed, at various depths, to the delay voices parameter. Each delay voice has its own modulation matrix, allowing each voice to be modulated differently.

The possible modulation destinations for each voice are *TIME*, *FEEDBACK*, *TUNE*, *FILTER CUTOFF*, *FILTER RESONANCE*, *PAN*, and *VOLUME*. They are shown on the interface below each parameter.

With the MODULATION control for a partiular parameter, select Off (displayed as -) to turn off modulation for this parameter, or LFO 1, LFO 2, LFO 3, or LFO 4 to use the corresponding LFO.

The *depth* parameter controls the amount that the modulation source affects this parameter. At 0, no modulation occurs. The *depth* controls are bidirectional: parameters can be modulated in both the positive (by using a depth over 0) and negative (by using a depth below 0) direction.

XY Pad

Show the XY pad by clicking on the XY PAD button.

The XY Pad serves two purposes: to give an instant overview of the relative parameter settings of all the voices, and to enable multiple parameters to be manipulated and played in real-time.

Two parameters are displayed on the XY Pad, one horizontally, and one vertically. The possible vertical parameters are Feedback, Tune, Res, and Volume. The possible horizontal parameters are Time, Cutoff, and Pan. Click on a parameter's name to display the parameter on the pad.

Each voice's value for the selected parameters are represented by a single coloured node on the XY Pad. Each voice's node is uniquely numbered and coloured for easy identification. By moving the node in two dimensions, both parameters can be changed at once. For example, you may wish to tweak Cutoff and Res together.

Unless you have a very steady hand, it can be difficult to change a parameter on one axis without affecting the other axis. By enabling the Horizontal Lock or Vertical Lock, parameters can be frozen so that no more changes are made to that axis from the XY Pad. Note that Parameters on a locked axis can still be changed with the standard voice rotary controls.

Active voices can be disabled by double-clicking on their nodes. Likewise, a voice can be activated at a particular position by double-clicking anywhere on the XY Pad.

Tracking

Show the tracking panel by clicking on the *TRACKING* button.

The tracking panel options are used for configuring diatonic tracking. Diatonic pitch detection is a process in which the input audio signal is analyzed and pitch information extracted. This is used to tune the delay line transpositions to ensure that delays remain in scale. For example, when in the key and scale of C Major, if voice 1 is set to diatonic thirds, playing a C will produce an E (a major third interval, or 4 semitones). However, playing a D will produce an F harmony (a minor third interval, or 3 semitones.)

Diatonic pitch detection is a complex process that requires a cleanly played, monophonic (one note at a time) signal. The detection will struggle to deduce the pitch of very noisy signals. Pitch detection can be a very CPU intensive activity, particularly when confronted with ambiguously pitched or noisy material. If glitches become apparent in the audio stream when using diatonic pitch detection, you should allow Shift more CPU resources by freezing or bouncing any other intensive tracks in your arrangement. Consult your host's documentation for the steps required for this.

The CHANNEL parameter selects which stereo input channel to analyze for pitch information. LEFT or RIGHT should be chosen depending upon which channel has the cleanest signal. MIX can be used in cases where the signal moves across the stereo panorama, but this can be less accurate if the left and right input channels are significantly different. SPEED refines the responsiveness of the pitch detection algorithm. The default value of 40% will perform well for most audio sources, but certain materials may require slightly different values. Lower percentages will mean that the detection works very fast but is more sensitive to pitch deviations and input noise. A higher speed percentage a more relaxed detection, but can introduce slight delay to the detection.

The *KEY* and *SCALE* controls tell the detector which key and scale to use to generate harmonies. These should be set to the key and scale of the audio input. The following keys can be selected: C, C#, D, D#, E, F, F#, G, G#, A, A#, B. The following scales can be selected: Major (Ionian), Dorian, Phrygian, Lydian, Mixolydian, Natural Minor (Aeolian), Locrian, Harmonic Minor, Melodic Minor (Ascending), and Enigmatic scales.

The pitch display tells you at a glance what the pitch tracker thinks is the currently played pitch. It jitters wildly when it can't smoothly track, and settles confidently on one note when configured properly. Using this, it is quick and easy to configure tracking options that accurately track your playing style/sound.

Diatonic pitch detection is only enabled when one of more delay lines are set to *DIATONIC* mode.

The settings for the tracker can be stored in a *partial preset*; see the section on partsets for more details.



Figure 3: Tracking

Time

The *TIME* panel's options set whether voice delay times are in milliseconds (when *SYNC* is off), or in division of a beat (when *SYNC* is on). When *SYNC* is on, the actual delay time will be snapped to the nearest multiple of the division set in *QUANTIZE*.

Grains

Shift's pitch shifter uses a type of processing called *granular synthesis*. This chops incoming audio into tidy fractions of audio called grains. Each grain can be individually pitched, transposing the audio in pitch, whilst preserving the audio's time scale. The *GRAINS* panel options configure the duration and shape of the granular synthesis engine.

- The SIZE parameter sets the average width of a grain. Longer settings help preserve the timbre of pitched material, but may soften transients on percussive sources.
- The RANGE parameter sets the average rate of grain generation.
- The SHAPE parameter sets the envelope shape of each grain. At 0%, each grain uses an approximately rectangular envelope: instantly on and off. At 100%, the grain uses a smooth raised cosine window. Values between 0 and 100% allow various envelope shapes between these extremes.

Particular grain settings work better with certain sound sources. A large *SIZE* and *RANGE* can help preserve pitched material, but generally causes larger latency. A smaller *SIZE* and *RANGE* works better on percussive sounds, or sounds with short attack transients.

The settings for the grains can be stored in a *partial preset*; see the section on partsets for more details.

LFO

An LFO (low frequency oscillator) produces a constantly wavering signal that can be routed, at various depths, to the delay parameters to create continual changes. See modulation. Shift has four individual LFOs. LFOs are shared between all delay voices. Each LFO has the following parameters:

- The RATE parameter sets the speed at which the LFO oscillates. With SYNC turned
 on, the LFO is based upon musical note divisions and will be in step with the host
 tempo. With SYNC off, the RATE is expressed in Hertz (or cycles per second.)
- The SHAPE parameter sets the cyclical pattern of the LFO. Choose from Sine, Saw, Square, Triangle, or Random. Random is equivalent to a bipolar sample & hold circuit: it produces a random value (which can be either positive or negative) at the specified rate, holding that value for the entire rate division.

Control Types

Rotary Controls

Click on a rotary control and drag either upwards to increase the value, or downwards to decrease it. Hold down *SHIFT* and drag to make smaller and more precise changes. Hold down *CMD* (on macOS) or *CTRL* (on Windows or Linux) and click to return the control to its default value. Double-clicking a control will also return it to its default.

Rotary controls can also be changed by hovering the mouse cursor over them and scrolling the mouse-wheel up or down. Holding *SHIFT* whilst scrolling the mouse-wheel will make more finely grained changes.

Button Controls

Click on a button control to toggle it between on and off. Hold down *CMD* (on macOS) or *CTRL* (on Windows or Linux) and click to return the control to its default value.

Setting the Interface Size

Shift2 has a fully resizable interface, allowing it to be scaled to accommodate your own preferences and screen resolution. If supported by the host, Shift2 can be resized by dragging the resizer on the bottom-right of the interface. Alternatively, several pre-defined size options can be selected under *options / Zoom*. See also: configure appearance.

The interface size can be restored to the standard size either by choosing *options / Zoom / Default Size* or by holding *SHIFT + CMD/ALT + R* (see key bindings).

Preferences

Access *Preferences* by clicking the cog icon (on the top right of the application) and choosing *Preferences*... from the menu.

From here, you can configure the audio and MIDI devices, the application appearance, the key bindings, the default author name, and the channel used for MIDI learn.

Configure Audio and MIDI

When running Shift2 as a standalone application, you will need to configure your audio and MIDI devices. When running as a plug-in, this option is not available because audio and MIDI routing is provided by the hosting application; consult the host's documentation for details. To access the *Devices* configuration panel, select *Preferences...* under the *options* menu (from the cog on the top right of the application).

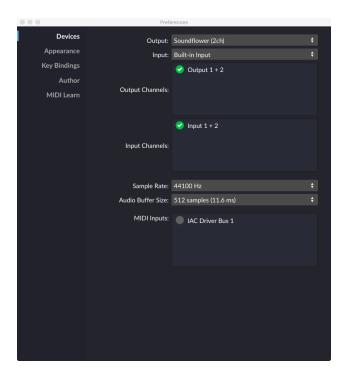


Figure 4: Devices Panel

PREFERENCES 23

From this dialog, the following details of your Audio and MIDI setup can be configured:

 Select the *Input* and *Output* audio device(s) you want to use from the list of available devices. Certain devices tend to perform better than others so if multiple devices are available, you should favour: on Mac, using Core Audio; on Windows, using ASIO; on Linux, using JACK.

- For devices that support multiple channels, select the required *Input Channels* and *Output Channels* by checking the box besides the channel name. The Shift2 standalone application can process only stereo audio channels.
- The Sample Rate dictates the overall quality of the audio output. Using a lower sample rate will reduce the presence of high-frequency components. Higher sample rates should therefore be preferred. However, be aware that the CPU usage is directly proportional to the sample rate. A good compromise between quality and CPU usage is 44100Hz, which is the sample rate of CD audio. Select the sample rate you require from the available list.
- The Audio Buffer Size governs latency; a smaller buffer means that Shift2 will respond more quickly to MIDI messages and parameter changes, and there will be less delay between input and output. However, a smaller audio buffer size will require more CPU usage. Select the required audio buffer size from the available list. Using too small of an audio buffer can overload your computer to the extent that audible clicks are heard. In this case, increase the audio buffer size until clicks are no longer present.
- Select in the MIDI Inputs list any external MIDI devices with which you want Shift2 to listen. MIDI devices can be mapped to parameters, and Shift2 can also respond to MIDI program change messages.

Configure Appearance

Changes that affect the appearance of the Shift2 user interface are configured here. To access these settings, select *Preferences...* under the *options* menu (from the cog on the top right of the application), and select *Appearance* from the items on the left.

Setting the *Magnification* scales the entire user interface. Any changes made to this option will not take affect until the dialog is closed.

The *Graphics Driver* options allow you to select a different rendering driver. An efficient graphics driver means that less of your processor's CPU is used in rendering the interface, leaving more CPU free to render audio and run plug-ins. Generally, 3d accelerated drivers such as OpenGL are the most performant. On macOS, the CoreGraphics renderer also delivers good performance.

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Configure Key Bindings

Shortcut keys allow often-used actions to be performed quickly from the keyboard using a specific combination of key presses. These actions, and their required key combinations, are listed here. To access these settings, select *Preferences...* under the *options* menu (from the cog on the top right of the application), and select *Key Bindings* from the items on the left.

Each action can have any number of shortcuts assigned to it, including none.

To add a new shortcut key combination to a specific action:

- 1. Click the + button beside the action to which you wish to add a shortcut.
- 2. In the New Key Binding dialog, hold the key or combination of keys that you want to assign to the action. If these keys are already bound to another shortcut, a warning will appear; despite the warning, the binding can still be made, which may result in ambiguity when the keys are pressed.
- 3. Press OK to make the binding, or Cancel to discard the change.

Bindings can be deleted by clicking the *X* button on the key combination that you wish to remove. Some shortcuts are hard coded into the system (such as copy and paste), and cannot be removed.

You can restore all shortcuts to their default values by pressing Set All To Default, or restore only some shortcuts by selecting their actions and clicking Set Selected to Default.

Some shortcuts may not be available in certain hosts because the hosts themselves consume the key presses. In these cases, redefine the shortcut to something that does not conflict with keys used by the host.

Configure Default Preset Author

The name entered here will be used as the author name for any newly created presets. To access this setting, select *Preferences...* under the *options* menu (from the cog on the top right of the application), and select *Author* from the items on the left.

When saving a preset, you can override this, but setting it here saves you the hassle of having to put your name into every new preset.

Configure MIDI Learn

When using an external MIDI device to control Shift2, Shift2 can be set to listen to MIDI messages on all channels (*Omni mode*), or on a single channel. To access these settings, select *Preferences...* under the *options* menu (from the cog on the top right of the application), and select *MIDI Learn* from the items on the left.

MIDI Control

MIDI Controllers

Instead of configuring a preset using a mouse, you can change any parameter value using a MIDI keyboard or control surface. This is done by mapping each parameter to a MIDI continuous controller (CC). Each parameter can only be mapped to a single MIDI controller; the same MIDI controller can, however, be mapped to several different parameters.

MIDI controller mappings are global; once defined, the same mapping assignments will be used by all Shift2 Programs. This means that you only need define mappings once for your particular controller, and it will be usuable in all your projects.

Display Current MIDI Controller Mappings

To view the current MIDI controller mappings:

- 1. Enter *MIDI Learn Mode* by choosing *Start MIDI Learn* under the options menu. Each parameter's mapped MIDI controller will now be displayed on an overlay. If room allows, the channel will also be displayed, or X for omni-channel mappings.
- 2. When you have finished viewing the MIDI controller mappings, choose *Stop MIDI Learn* under the options menu.

MIDI CONTROL 26

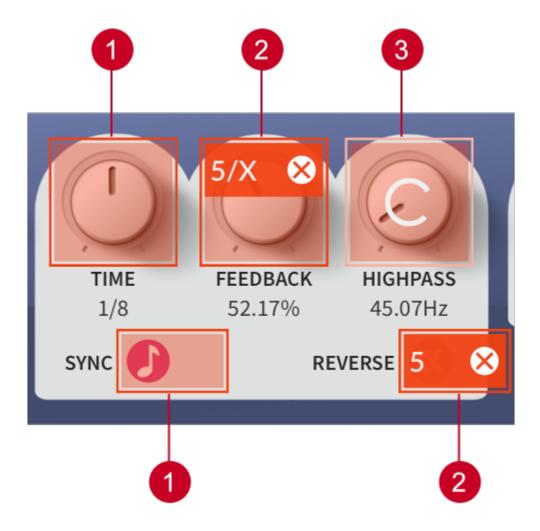


Figure 5: MIDI Mapping. (1) Unmapped Control; (2) Mapped Control; (3) Control Currently Being Mapped

MIDI CONTROL 27

Assign MIDI Controllers to Controls

To map a MIDI controller to a parameter:

- 1. Enter MIDI Learn Mode by choosing Start MIDI Learn under the options menu.
- 2. Click on the parameter you wish to map to a MIDI controller.
- 3. Turn your MIDI controller. The parameter ill now be labelled with the MIDI CC number of this controller.

You can now either:

- Map another parameter by repeating these steps from Step 2.
- Finish mapping parameters by choosing *Stop MIDI Learn* under the options menu.

Remove MIDI Controller Mappings From Controls

To remove a mapped MIDI controller from a parameter:

- 1. Enter MIDI Learn Mode by choosing Start MIDI Learn under the options menu.
- 2. Click on the close button of the parameter from which you wish to remove the mapping. This parameter will become unmapped, and the CC number label on the parameter will disappear to reflect this.

You can now either:

- Remove the mapping from another parameter by repeating these steps from Step 2.
- Finish removing parameter mappings by choosing *Stop MIDI Learn* under the options menu.

MIDI Program Change Lists

You can change presets by using *MIDI program change* commands. This requires a MIDI keyboard or a control surface with the ability to send such MIDI messages; consult your controller's documentation for details. If using Shift2 as a plug-in, this functionality is dependent upon the host correctly forwarding MIDI messages to the plug- in; check the documentation provided with your host for details.

To select which presets are loaded in response to MIDI program change commands, you will need to create a MIDI program change list. Select *Edit MIDI Program Change List...* from under the options menu to display the MIDI program change list editor.

To add presets to the MIDI program change list, either double-click on a preset, or select a Preset and click the *»* button. Use the *info* and *list* button on the top-right of the window

MIDI CONTROL 28



Figure 6: MIDI Program Change List

to toggle between viewing the list, and information on the selected preset.

Any presets in the MIDI program change Lists are automatically loaded and cached in memory. This means that Preset changes can be instant. There may be a slight pause after editing the MIDI program change list whilst the presets within it are loaded. When a preset is saved, any entries in the MIDI Program Change List are saved alongside it. Note that setting a preset with a MIDI Program Change List as the default preset will cause all presets within the list to be loaded when a new instance of Shift2 is loaded.

Preset Management

Parameters and Presets

You can modify the type of sound that Shift2 produces by setting the values of parameters. Each parameter will affect a specific element of the sound. The state of all parameters is collectively called a preset. Presets are given a suitable name, and the name of the currently selected preset is shown in the menu bar. If the preset has been modified without being saved, a * appears beside the name.

Navigation Controls

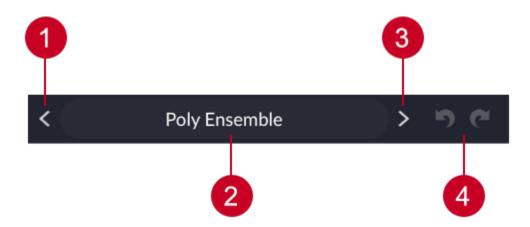


Figure 7: Navigation Controls. (1) Previous Button; (2) Preset Name; (3) Next Button; (4) Undo/Redo Buttons

If you wish to browse quickly through the presets, you can do so using the the *previous* and *next* controls. These controls are context sensitive, only displaying presets that are relevant to the last search you made. For example, if you had most recently searched for "analogue, bass", only presets that match this will be selected. Scrolling the mouse-wheel when the mouse cursor is over the *preset name* will also load the next or previous preset, depending on the scroll direction.

Clicking on the *preset name* opens the preset browser. By pressing *undo*, you can take back the most recent change made to a preset. *Redo* will re-apply the last undo changes. Note that only changes made via the Shift2 interface can be undone; changes made externally (such as from a host application, or from a MIDI controller) are not undoable.

Creating a New Preset

Select *New* to create a new preset. This preset will be in the default initialised state. If you've made a sound worth keeping, be sure to save the preset before you create a new one, as the undo history will be discarded when the preset state is reset.

Comparing a Changed Preset to the Original Preset

Often you'll want to compare a preset that you have amended to see if it is is actually an improvement on the original. Pressing the *AB* button temporarily reverts a changed preset back to its original state. Pressing the *AB* button a second time returns to the changed preset. This method allows you to easily contrast the preset changes you have made to the original preset state.

Opening Presets

To select a preset from within your preset library, click on the preset name in the menu bar to open the preset browser.

Saving Presets

Click *Save* to save the current preset. Choose the location in which to save the preset in the folders window within the preset browser. Click *OK* to actually save the preset.

The Preset Browser

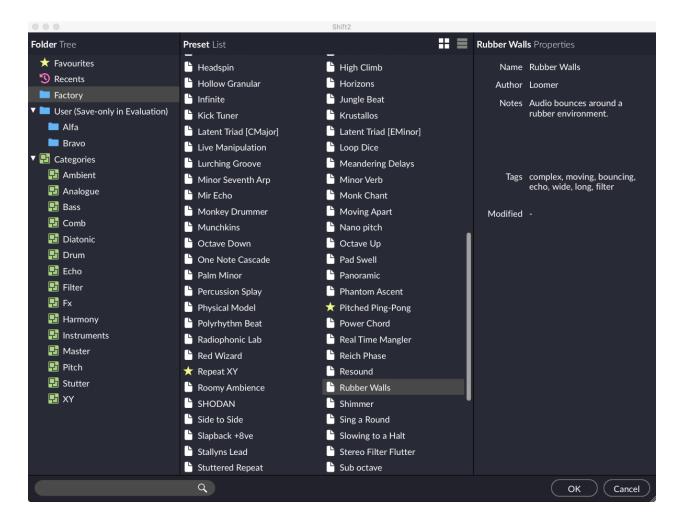


Figure 8: Preset Browser

Presets can be divided into two groups; factory, and user. Factory presets are a collection of example presets built into Shift2. Factory presets can't be overwritten, although you can, of course, edit and save your own presets derived from factory presets.

User presets are stored as individual files on your computer's hard drive. They are found in the following locations:

- macOS: ~/Library/Application Support/Loomer/Shift2/Presets
- Linux: \$XDG_DATA_HOME/Loomer/Shift2/Presets
- Windows: Documents\Loomer\Shift2\Presets

Only registered users can open user presets. Unregistered versions of Shift2 are limited to the factory presets. Unregistered versions of Shift2 can, however, still save presets. Any presets created in the unregistered evaluation of Shift2 can be opened by purchasing a licence for Shift2.

Preset Hot-swap

Selecting a preset in the browser will automatically load the preset: this functionality is called *preset hot-swap*. Preset hot-swap allows you to quickly preview presets in the context of the current project. If you decide to use the selected preset, close the browser by pressing *Return* or by clicking *OK*. To return to the preset you had open before you accessed the browser, close the browser by pressing *Escape* or by clicking *Cancel*.

Preset Meta Data

Presets can have meta data attached to them. Meta data doesn't influence the sound of the preset, but is used in categorizing, searching, or annotating them. The following meta data is available:

- Author: The name of the preset creator. You can enter your name into the preferences dialog, and that name will automatically be used as the default author for all new presets.
- Notes: Any additional notes about the preset, such as influences, playing tips, description, etc.
- **Tags**: Tags are short words that describe the preset. Examples are: "bass", "distorted", "monophonic", "trance", "quiet", etc. Tags are used to help quickly search for a specific sound.

Searching for Presets

Type keywords into the search field to locate all presets that match this description. The search will match the keywords in the Preset Name, Author, and Tags fields, and parent folder name.

Categories

Categories allow you to quickly access a subset of your presets. Categories are listed under the categories node in the preset browser. A category is simply a shortcut to searching for the category name; a category called "Bass" will list all presets that match the search criteria "Bass". You are not limited to create categories based on the type of sound: you can, for example, create categories for preset authors, or indeed for any other search term. Provided you tag your own presets, they will automatically be added to the correct category (or categories: presets can belong to multiple categories; a preset could be both a "Bass" and "Lead" sound, for example.)

Preset Formats

Presets in the user presets folder need to be in either native .xml format, or VST .fxp or .fxb format. Standalone, and Audio Unit versions can also open .fxp or .fxb files within the browser. Please ensure any files in the user presets folder have the correct file extension.

As a general rule, you should prefer saving presets in Shift2's native .xml format over any proprietary host format, as this can make it easier to share presets with users on other hosts.

Copying and Moving Presets

Presets can be moved or copied to another folder by dragging and dropping a preset onto the destination folder. By default, presets will be moved. You can instead copy the preset by holding shift whilst dragging. Note that presets inside banks (either .xml or .fxb banks), can only be copied, not moved. Multiple presets can be moved or copied at once by selecting more than one preset.

The Default Preset

The default preset is automatically opened when a new instance of Shift2 is created. To specify the default preset, right-click on a preset and choose *Set as Default*. Note the AAX plug-ins do not support default presets: a new instance of Shift2 as an AAX plug-in will always begin with an initial preset state equivalent to a new preset.

Restoring Deleted Factory Presets

To reinstate any deleted factory presets, right-click on the factory branch in the preset browser and choose *Restore Factory Presets*.

User Folder Management

Folder management is performed by right-clicking on a user folder, and selecting an option from the pop-up menu. From here, you can create a *New Folder*, *Rename Folder*, or *Delete Folder*. On Windows or macOS, you can also quickly locate this folder in Finder or Explorer by choosing *Show In Finder / Explorer*.

Favourites

Favourite presets can be quickly located under the *Favourites* node in the preset browser. A preset can be added to or removed from the favourites list by right-clicking and choosing *Add to Favourites* or *Remove from Favourites*, respectively.

Partial Presets

As well as full presets containing the entire state of Shift2, you can also create partial presets (known as *partsets*). Partsets contain only the settings for a specified component of Shift2. User partsets are stored as individual files on your computer's hard drive. They are found in the following location:

macOS: ~/Library/Application Support/Loomer/Shift2/Partsets

• Linux: \$XDG DATA HOME/Loomer/Shift2/Partsets

Windows: Documents/Loomer/Shift2/Partsets

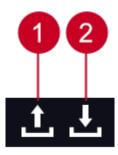


Figure 9: (1) Load Partset; (2) Save Partset

To save the current settings for a component into a partset template, click on the save icon next to the component. Give the partset an identifying name, and click *OK* to save it.

To load the current settings for a component from a Partset template, click on the open icon next to the component, and select the required partset from the browser list. Selecting a partset in the browser will automatically load it: this functionality is called partset hot-swap. Partset hot-swap allows you to preview a partset in the context of the current project. If you decide to use the selected partset, close the browser by pressing *Return* or by clicking *OK*. To return to your original partset, close the browser by pressing *Escape* or by clicking *Cancel*.

To reinstate any deleted factory partsets, right-click on the root branch node in the component's partset browser, and choose *Restore Factory Partsets*.

Status display

Status display information is displayed at the bottom right area of the Shift2 interface:



Figure 10: Status Display. (1) Tempo; (2) MIDI Input

Tempo

The *tempo control* only appears when running Shift2 as an application; when running as a plug-in, the host application will provide the tempo for Shift2. The tempo control displays the current tempo, in beats per minute (bpm). It can be changed by either:

- Double-clicking the tempo control, typing the required bpm and pressing *Return*.
- Clicking on the tempo control and dragging either upwards to increase the tempo, or downwards to decrease the tempo.

MIDI Input Monitor

The *MIDI input monitor* flickers to show that a MIDI message has been received. You can use this to confirm that your MIDI controller is configured correctly for Shift2.

Contact Details

Online

Website: www.loomer.co.uk

Support and FAQ: www.loomer.co.uk/support.htm

Email

Sales information: sales@loomer.co.uk

Technical support and feature requests: support@loomer.co.uk