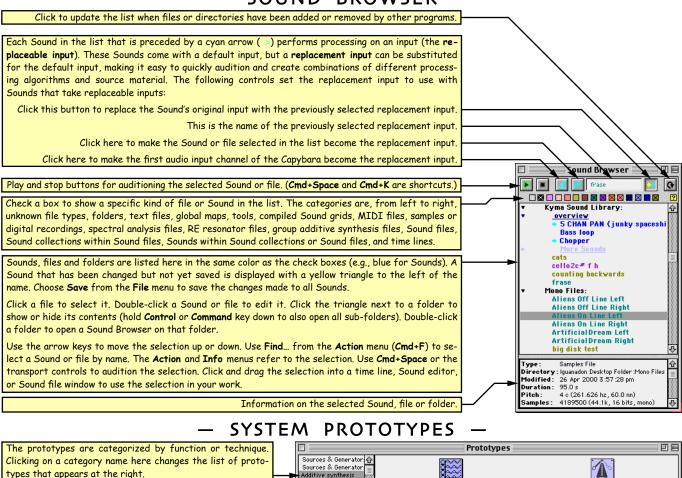
Kyma.5 Quick Reference





types that appears at the right.

Select a prototype by clicking on its icon, or choose Find prototype... from the Action menu (Cmd+B) anywhere in Kyma to search for a prototype by name. This prototype is selected. The Action and Info menus refer to this Sound. Press the

Control or Command key along with Space Bar (Cmd+Space) to compile, load and start (or play) this prototype. Click and drag the prototype into a time line, Sound editor, or Sound file window to use it in your work.

SOUND FILE

Compression/Expans

♣

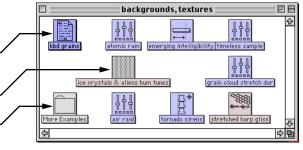
Cross synthesis

Delays-Mono

A Sound file contains a collection of Sounds and Sound folders. Use Sound files to keep related Sounds together. Sounds can be dragged between this window and time lines, Sound editors, and other Sound file windows. This Sound is selected. Click any Sound icon to select it. The Action and Info menu operations refer to this Sound. Press Enter to change the name of the Sound. Press Ctrl+Space to compile, load and start the selected Sound.

This Sound is being edited (see Sound editor). Double-click any Sound's icon to edit its structure and parameters.

This is a Sound collection. Use Collect... from the Action menu to place the selected Sounds into a new collection.



AdditiveIntervals KBD

— VIRTUAL CONTROL SURFACE -

The virtual control surface (VCS) is a control panel or user interface for the currently playing Sound. It stores control settings in **presets** and alternative graphical arrangements of the controller widgets in **layouts**.

The top part of the VCS contains controls for selecting and editing presets and layouts. The bottom portion contains the graphical controls for interacting with the Sound.

Kyma automatically displays comments from **Annotation** modules in your Sound. You can also add text using the VCS editor. Spectrum and waveform displays come from **SpectrumAnalyzer** and **OscilloscopeDisplay** Sounds or by playing the Sound from **Spectrum analyzer** or **Oscilloscope** in the **Info** menu.

The axes of the spectrum are linear frequency and dB magni-

tude. The axes of the oscilloscope are time and amplitude.

Compress or expand the frequency, magnitude, time or am-

plitude axes with these buttons.

All controls come from Event Values (hot variables) in the Sound (for instance, !ModIndex). An Event Value can be displayed as a fader, potentiometer, or continuous rotary (with or without the text field), or as text, buttons, or switches.

To change the value of a fader, potentiometer, or rotary, use the mouse (hold **Shift** down for fine adjustments), or enter a number into the box above the control and press **Enter**. **Tab** cycles through the boxes. If a MIDI device is mapped to the controller (though the global map, a **MIDIMapper** Sound, or the VCS itself), the controller can be adjusted using the MIDI device.

If a CM Automation Motor Mix is attached to the Capybara and selected in the Kyma preferences, it will automatically show abbreviations of the controller names displayed in its LCD scribble strip, and its faders, rotaries, and buttons will be mapped to control the VCS.

Clicking the padlock at the upper right corner of the virtual control surface unlocks the layout and opens the VCS editor.

The upper portion of the editor displays a list of layouts for the currently playing Sound. Click to select one or **Shift+click** to select several layouts. The buttons below the list open pop-up menus for adding, merging and removing layouts (Layout...); arranging the selected controller widgets (Arrange...);

and adding and removing controller widgets (Options...).

The lower portion of the editor provides a way to edit the selected controller widget(s): its MIDI channel and controller number, its label, its type (fader, button, etc.), whether it has an associated number field, its taper (linear or log), its minimum, maximum and gridding values, and its screen location.

Select widgets by clicking in the VCS window (hold down **Shift** key to extend the selection), drawing a box around a group (hold down **Command** or **Control** to start within a widget), or by selecting a name using **Selected Value** in the editor.

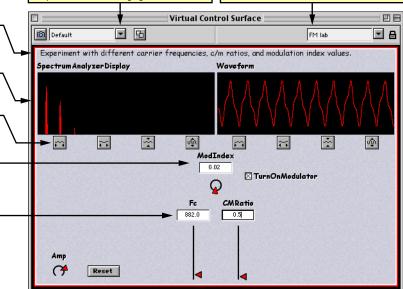
To quickly assign a MIDI controller to a widget, select the widget, press the **Escape** key, and move the controller.

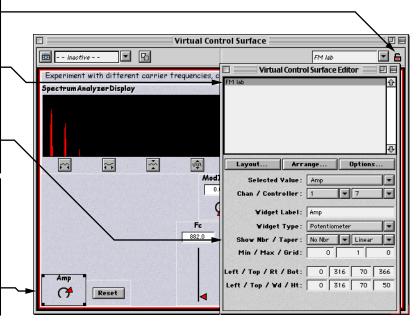
Click & drag a corner or edge of a widget to resize it; click & drag from the center to move it. Click, press the **Shift** key, then drag to move only vertically or horizontally. While resizing or moving a widget, the edges of other widgets act as snap-to guides to aid placement. Click the triangle to choose a preset from a list. Click the camera (or click the name and press **Enter**) to take a snapshot of the current settings.

Click the dice to set controllers randomly. Click a controller label (making it gray) to keep the dice from changing that controller. triangle to choose the controller layout from a list of predefined layouts.

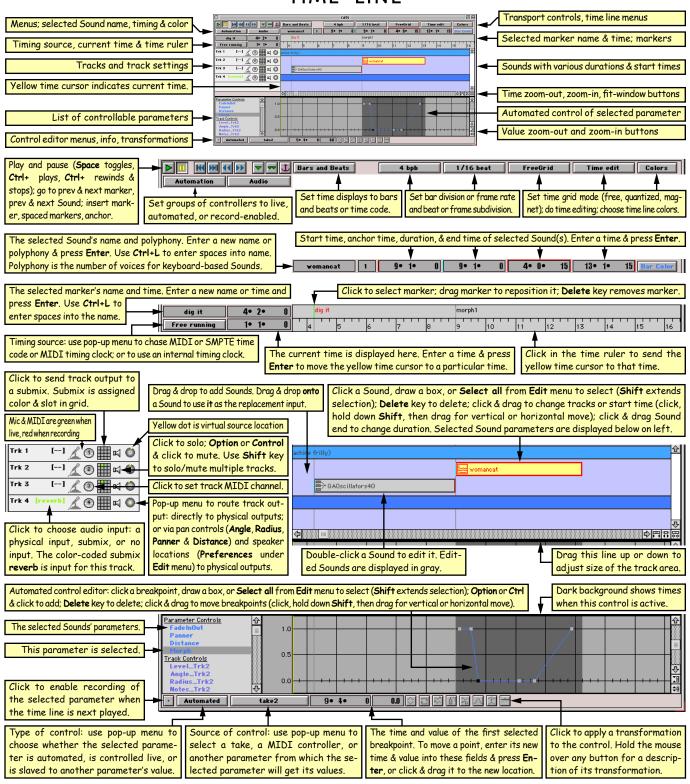
Click the padlock to unlock/lock the VCS. When unlocked, the MIDI mapping, type, range, and location of the controllers can be edited (see below).

These are the layout controls. Click the





— TIME LINE —



– SOUND EDITOR –

The Sound editor shows the signal flow between Sounds and the parameters of those Sounds.

Double-clicking a Sound in the time line or Sound file window opens the Sound editor on a copy of that Sound. The changes you make in the Sound editor are not saved back into the time line or Sound file window until the Sound editor is closed. Use **Save** from the **File** menu to save back the changes without closing the editor window.

The top part of the editor is the signal flow diagram. A stereo signal travels along each line from left to right. A thick line with a number in a box indicates that a signal is used more than once in the destination module (as in the lower window).

To insert a Sound into the signal flow, drag the Sound onto a line connecting two Sounds. To delete a Sound, click on its icon to select it, then press **Delete**. To replace a Sound with a copy of another Sound, drag the other Sound on top of the Sound to be replaced. To route the **same** Sound to two or more places, hold down **Control** or **Option** while dragging. Alternatively, use **Paste** or **Paste special**... from the **Edit** menu.

Click a Sound's tab (the small box attached to the left edge of the icon) to show hidden inputs. Clicking again will hide the inputs. Click and drag a Sound to reposition it. Hold down the **Shift** key to move the Sound and its inputs at the same time.

Drag this line up or down to adjust the size of the parameter area. To expand to the maximum size, double click in the background of the parameter area.

These are the parameters of the Sound double-clicked in the signal flow diagram.

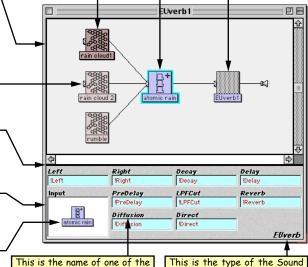
A parameter with a cyan background and italic name is a hot parameter. Hot parameters can be controlled by any combination of constant values, values from MIDI or on-screen controllers, the output of another Sound, or arithmetic expressions.

A parameter with a white background and non-italicized name is a constant parameter. A constant parameter has a fixed value for the duration of the Sound.

Signal inputs to a Sound appear in both the signal flow diagram and in the Sound's parameters. To change the input, cut, copy, paste, or drag Sounds into the parameter field, or onto the icon of the old input in the signal flow diagram. The signal flow diagram will not be updated until you double-click a different Sound or double-click in the background of the signal flow diagram.

Click a Sound to select it. Use Cmd+Space to audition the selected Sound, Enter to change its name. The Action and Info menus refer to this Sound. Double-click a Sound to edit its parameters. The edited Sound's parameters are shown at the bottom of the window, and its icon is grayed out.

A cyan halo surrounds the **replaceable input**. The replaceable input Sound is replaced when you drag the Sound being edited onto another Sound in the time line or onto a line in a Sound editor, or use it with a replacement input in the Sound browser. To set the replaceable input, select a Sound and choose **Set replaceable input** from the **Action** menu.



This is the name of one of the Sound's parameters. Hold the mouse over the name for a description of the parameter.

being edited. Hold the mouse over this area for a description of the Sound type.

Parameters can be controlled by Sounds acting as LFOs. To insert a Sound into a hot parameter field, **Copy** the Sound, and then **Paste** it into the field. Use **L** for left, **R** for right, or **M** for mono mix.

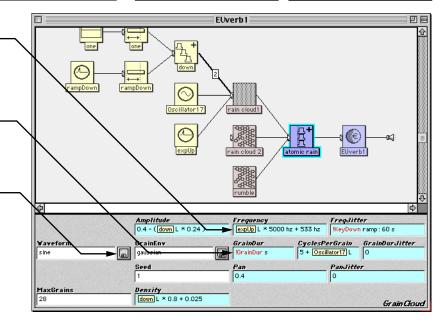
Hot parameter fields can contain Event Values controlled by MIDI or the Virtual Control Surface. Event Values can be inserted by hitting the **Escape** key and moving a MIDI controller or playing the MIDI keyboard (one key for !KeyPitch, two keys for !KeyDown, three keys for !KeyVelocity), choosing **Paste hot...** from the **Edit** menu, or by typing! followed by any name.

Click this button to choose a file from a standard file dialog. Use **Shift+click** to get information about the current file. Use **Control+click** or **Command+click** to open an editor on the current file.

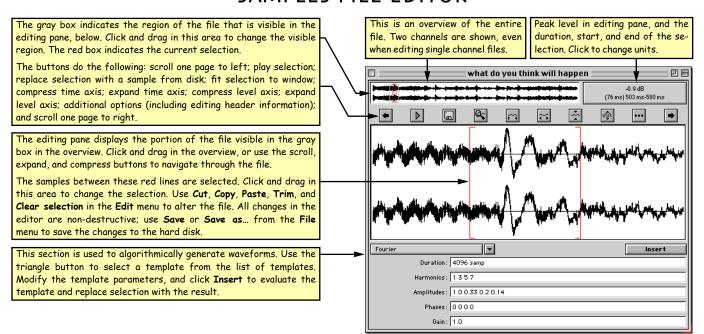
Can't remember what arithmetic can be used in parameter fields? Ctrl+Shift+H lets you choose from a list.

Can't see everything in a field? Use Large window... from the Edit menu (Ctrl+L) to expand it to full screen size.

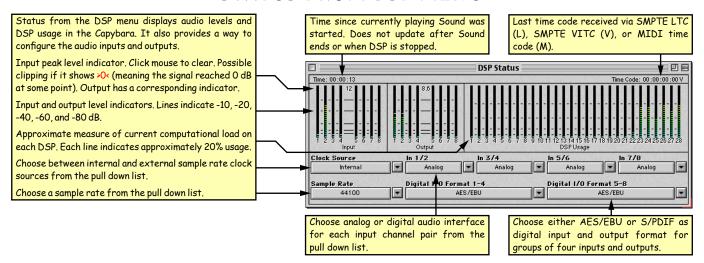
If a field flashes when you play the Sound, it indicates an error in the field's value.



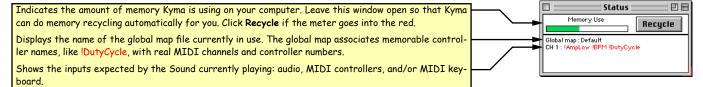
SAMPLES FILE EDITOR —



STATUS FROM DSP MENU —



STATUS FROM FILE MENU



SPECTRUM EDITOR —

The spectrum editor displays the amplitude and frequency envelopes of sine wave components to be used during additive resynthesis. Each horizontal track represents a single sine wave. Color indicates the amplitude of the sine wave, vertical position indicates the frequency of the sine wave, and horizontal position indicates time. The spectrum editor uses the Capybara for real time auditioning of the resynthesis while editing.

The yellow scrub bar can be moved with the mouse, with MIDI pitch bend, or left or right arrow keys. While the scrub bar is moving, the resynthesis will play.

Markers indicate labeled time points and time segments for cutting or auditioning. The white marker is selected and its time position and label are displayed at the top of the editor.

Click a marker to select it; the scrub bar moves to the marker time. Press **Enter** to rename the selected marker; use the **Delete** key or **Cut** from the **Edit** menu to remove the selected marker.

These buttons do the following: creates a marker at the scrub bar time; places the start marker at the scrub bar; places the end marker at the scrub bar; and sets pre- and post-roll play times.

Selected tracks are brighter. Select by clicking on an individual track, or by drawing a box around a region to select. Hold the **Shift** key while selecting to add to or remove from the current selection. Select a track between 1 and 10 by pressing a number key (1-9, 0). Up and down arrow keys select next higher or lower track.

Create a Sound to play the selected part of the spectrum by choosing **Copy** from **Edit** menu, then **Paste** into a time line, Sound editor, or Sound file window.

Hold down the **Control** or **Command** key while drawing a box to zoom in on a specific region.

These buttons do the following: zoom the display all the way out; switch between time-frequency and time-amplitude display modes; switch between isolated-dot and connected-dot between spectral frames; select tracks and frames based on various criteria.

These buttons do the following: modify the selection in various ways; cut the

time between the start and end markers; and switch in and out of drawing mode.

Information on the track under the cross hair cursor is displayed here.

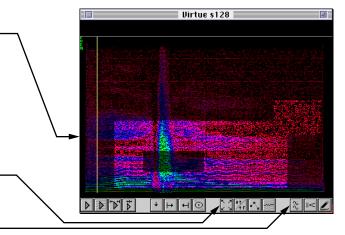
Grayed tracks have zeroed (cleared) amplitudes.

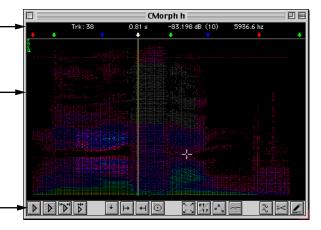
side of start and end markers.

Zero the amplitude of the selected tracks by choosing Clear from Edit menu.

These buttons do the following: play the entire spectrum; play the selection; play the selection between start and end markers; and play the selection out-

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