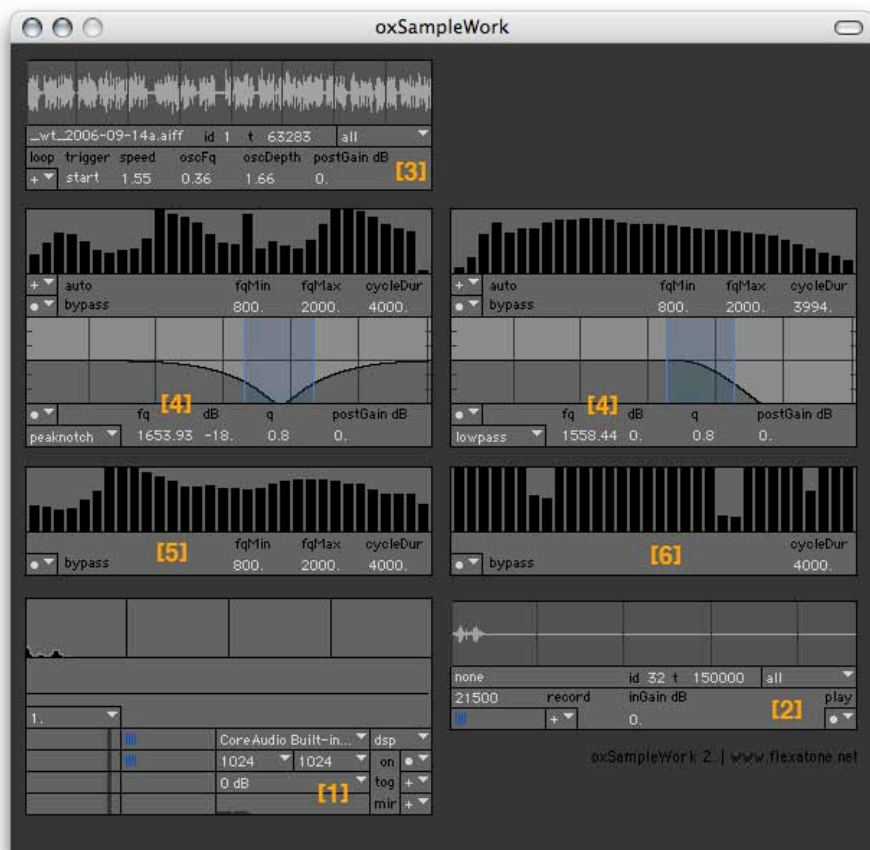


oxSampleWork: Version 2.1

Description: A sample loop player and recorder with variable and oscilating playback speed, dual dynamic filters, dynamic amplitude modulation, and a dynamic envelope

Installation: A Max/MSP Collective is a cross-platform application that provides digital signal processing tools within the Max/MSP Runtime application. To use a Max/MSP Collective, first, start the Max/MSP Runtime application; second, open the desired Collective (.mxf) file from the Max/MSP Runtime application File menu. The Max/MSP Runtime application for Macintosh can be found here: <http://www.cycling74.com/download/maxmspruntime462.dmg>. The Max/MSP Runtime application for Windows can be found here: <http://www.cycling74.com/download/maxmspruntime462.zip>.

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1: Master Audio Controls

This is the main audio control interface. Press the space bar to toggle audio processing. Audio processing must be activated with the space bar for any sound to be heard. A circle next "on" indicates that audio processing is inactive; a plus indicates that audio processing is active. When the "toggle" check-box is selected (by default) audio processing can be turned on and off with the space bar. To the left of these controls are drop-down menus to select audio drivers and input and output vector sizes. The four sliders on the left of this interface control the main outputs of channels 1 through 4. These sliders can be adjusted to set master output levels. The "0dB" drop-down menu can be used to change all output levels simultaneously. If additional audio

controls are necessary, the "dsp" drop-down in the upper right corner can be pressed to open a window with additional options.

2: Recorder

This interface allows the recording of real-time audio into a buffer. This buffer can then be written as an AIFF audio file, allowing the output to be stored and used with other software. To begin recording, select the plus with the drop-down menu under the "record" label. Recording can be stopped by selecting a circle from the same menu. Recording will automatically shut-off after the recorder has reached its maximum duration, set by default to 150 seconds. To write an AIFF file of the recorded audio, select the drop-down menu on the left (with default message "all") and choose "write".

3: Sample Player

This interface allows loading an audio file for playback. Selecting "replace" from the drop-down menu on the right of the interface will provide the user with a file-dialogue to select an audio file. Press the "start" button, under the "trigger" label, to play the sample. To loop the sample, select the plus from the drop-down menu under the "loop" label. Playback speed can be adjusted with the number-box labeled "speed" (where 1 is forward, -1 is backwards). Playback speed may be modulated by altering oscillation frequency and depth ("oscFq" and "oscDepth"). Output level can be adjusted with the "postGain dB" control.

4: Dynamic Cycling Filter

This interface allows configuration of a fixed or dynamic filter. The filter must be activated with the drop-down menu next to the "bypass" label, where a circle turns the bypass off. The type of filter is selected from the drop-down menu in the lower left; the filter parameters can be altered by clicking and dragging in the filter display, or by using the labeled number boxes ("fq", "dB", "q", and "postGain dB"). To activate dynamic filter movement, activate the drop-down menu next to the "auto" label. The filter uses a dynamic envelope to control center-frequency, configured with the vertical bar graph. This envelope moves the center-frequency between the minimum and maximum frequency ("fqMin" and "fqMax") set with the labeled number boxes. The duration of the filter movement cycle is determined by the "cycleDur" number box.

5: Dynamic Amplitude Modulator

This interface applies a variable-rate amplitude modulation to a signal. The filter must be activated with the drop-down menu next to the "bypass" label, where a circle turns the bypass off. The black bars configure the shape of the dynamic envelope used to control the rate of amplitude modulation. The minimum AM frequency, the maximum AM frequency, and the duration of the dynamic envelope cycle is configured with the number boxes on the lower left.

6: Cyclical Envelope Generator

This interface applies a variable-rate amplitude envelope to a signal. The envelope must be activated with the drop-down menu next to the "bypass" label, where a circle turns the bypass off. The black bars configure the shape of the envelope. The duration of the envelope cycle is configured with the number box in the lower left.