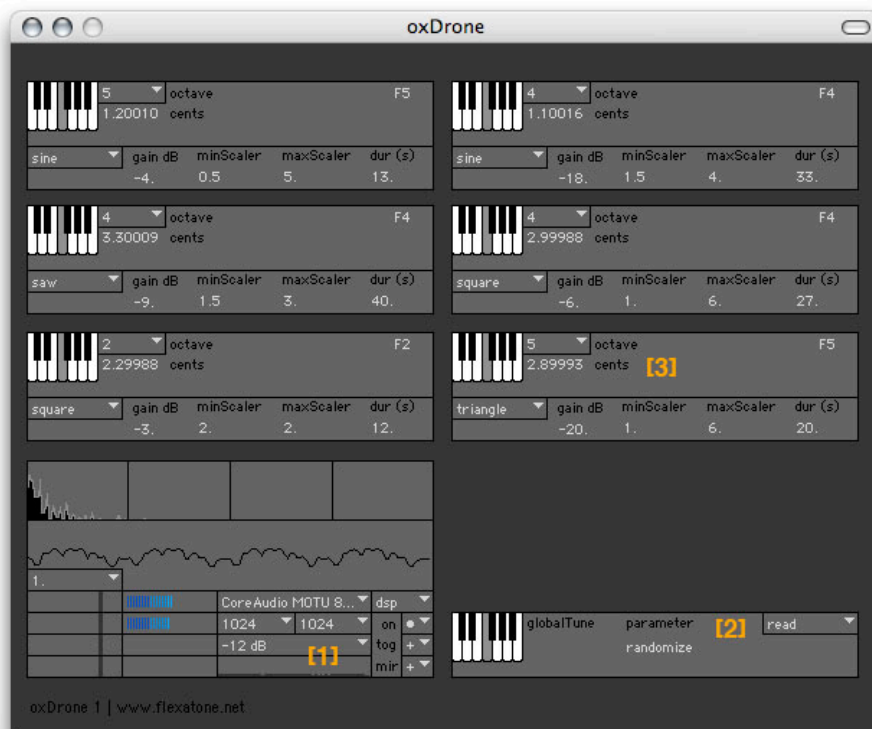


## oxDrone: Version 1.0

Description: An endless, polyphonic drone synthesizer with variable waveforms, dynamic low-pass filters, microtonal tuning, and a random parameter generator.

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: Drone Parameter Control**

This interface configures global drone parameters. The keyboard in the left will set the pitch class of all drone voices. The randomize label, when clicked, will randomize all parameters of all drones. The read and write drop-down menu can be used to store (write) or load (read) in a file with all drone voice settings.

## **3: Drone Synthesizer Voice**

Each drone voice can be configured with this interface. The drone pitch class, octave (where middle C is C4), and microtonal cent value (between -100 and 100) are configured in the upper left. Across the bottom, from left to right, the user can select a waveform type and a gain setting (where -90 dB is a mute). The dynamic low pass filter is configured with minimum and maximum frequencies determined by min and max scalars applied to the frequency of the voice pitch. The dur parameter configures the time, in seconds, over which the filter moves over this minimum and maximum.