it's Float VST

This synthesizer features a new oscillator algorithm variable from fixed waveforms to noise. It is well suited for efficient synthesis of ensemble timbres.

The oscillator features:

- cpu efficient unison timbre effects
- efficient continuous mono to stereo

The VST features:

- classic 32 bit Windows 2.4 VST styling using the SynthEdit SDK and Borland FCLT
- nice zero delay feedback 6dB to 24dB multimode filters by neotec

Installation

Copy the float.dll file to your VSTPlugIns folder.

To Use Float

The main panel from left to right:

pitch controls (octave, glide, pitch bend).

start and gate allow variation of recallability.

angle and magnitude control the modulation of the oscillator. track applies magnitude to follow note value.

scale affects the amplitude (0 = no signal) and brightness. scale affects modulation inversely.

multiple and amp produce a higher band of oscillation. multiple affects both its frequency and modulation.

the effect of stereo increases across the spectrum. the oscillator algorithm requires a highpass filter (6dB).

filter: lp at 6/12/18/24dB, 6dB bp, bp, 6dB hp, hp, band reject and peak modes. dedicated slider for mod wheel.

Details of Operation

Oscillator modulation is varied by angle and magnitude, the second having the more obvious effect. Angle can be varied to produce a range of textures - in most positions, modulation should be acyclic. Higher settings produce more overtly cyclic modulation and lower settings produce multicyclic modulations.

Increasing oscillator scale establishes a more profound regime of oscillation, having the natural effect of a more strident signal, with greater strength and perceptibly fixed pitch. Increasing scale moves the spectral energy upwards.

The interrelated characteristics of this oscillator create a responsivity to modulation conducive to thinking of the oscillator in terms of energy and turbulence.

The method by which it is produced conveniently allows an integer 'multiple' of the oscillator to be derived, creating a higher peak in the spectrum. As only integer values can be used, modulation of the multiple value during a note may produce clicks.

Standard Modulators Notes

Three knobs located immediately below envelopes apply velocity to attack, decay/release rates, and amplitude. Two additional knobs located below modulation envelopes affect the contour of attack and decay/release stages. The center position selects a linear contour.

xoxos lfos can select between monophonic and polyphonic operation. They can be synced to phase position at NoteOn, and they can be synced to host rate. Sync rates range 64m to 1/64th, then progress 1/48, 1/24, 1/12, 1/9, 1/6, 3/16, 5/16, 1/3, 3/8, 7/16, 2/3, 5/8, 3/4, 7/8, 5/4, 4/3, 3/2, 5/2, 3m, 7/2, 5m, 6m, 7m, 10m, 12m, 20m, 24m, 48m. Some of the contours may be modulated.

experiment