

BOBS WAVE SLIDER SYNTH

Hello Gang,

Basically this is a 3 oscillator synthesizer. Each oscillator has its own ADSR, VCF, VCA, and Ring Modulator. The big difference with the oscillators is that you can slide the positive part of the waveform while the negative part stays stationary. The far left pots(knobs) labeled Side are for manual slide, while the pots marked slider are voltage controlled sliding. Octave select is just that and the waveform select, selects the type of waveform (sine, saw, square, etc). Next the little white dots (buttons) next to the waveform select are an invert waveform button for each neg and pos parts of the waveform, green when inverted. To the right of those is the ring modulator. Again the white dots are buttons. I/O means in or out, and A/D means analog or digital. The white dots (buttons) just below the ring modulators marked osc2, osc3, and osc1 select the modulation oscillator for that particular ring modulator. To the right of the ring modulators are the VCF's, cutoff to the right is fully on and to the left is fully off, for LOWPASS ONLY. It is the complete opposite for HIGHPASS. The rest (bandpass, band reject, and peak) adjust some place of your liking. To the right of the filters are the ADSR's (attack, decay, sustain, release), then the VCA pots. Right is full on and left is full off. The SLIDER pot is a voltage controlled amount of slide set by the pot. Next is the amount of voltage control to the filters, left is negative and right is positive. The pan pots just pan each oscillator fully left or fully right. Next are the effects, the little led are on/off buttons for each and will be BLUE when on. The cross fader pot when straight up sets everything to mono. It is used in conjunction with the pan pots and the Cross Fader LFO. Just play around with them for the best sound. The LFO's start at the left bottom and there are 7 of them. The first 3 are wah wah(VCF) controls for each of the 3 oscillators while the next 3 are tremolo for each of the 3 oscillators. The last LFO is the cross fader LFO. The next pot is the main volume control. To the right of it is the scope gain and the little white dot (button) next to it chooses what oscillator you are viewing. I have also included a Frequency Analyzer for inspecting harmonic content of the waveforms you create. There are a number of pure wave forms in the presets that you can start off with and adjust the slide amount to see what harmonics come in. Lastly there is a kill audio button (top right) in case of extreme distortion, feedback, and so on.

There are 25 presets to get you started!

Good luck and have fun! Cheers, Bob Foulke.....