TheBateleur
42hp System

001 Simple Bassline

This patch is an intro to TheBateleur 42hp System.
It explores the concepts of 3.5mm Jack-normalization, LPF Cutoff Frequency attenuation, VCF and VCA modulation as well as MIDI-to-CV conversion.

Additionaly it highlights the synergies between the Power/MIDI, VCO & Envelope Generator modules to dynamically shape transients & control the pitch + duration of the sound.

Set the VCF's cutoff modulation depth.
By default the VCA's modulation input is normalized to the cutoff modulation input on the Expander module.
This allows for modulation of both parameters using a single CV source.

Modulate the VCO's pitch (relatively) by Control Voltage.
Exponential relationship between Voltage and Frequency.
Increase by 1V = increase by an octave.

Use supplied USB-A to USB-Micro-B cable to connect to any source that supplies >=2A*. Power switch in DOWN position & LED on = on.

The Envelope Generator's Curvature status LED. Will retrigger on incoming gate/trigger signals.

Incoming MIDI note-pitch data at the midi input jack will be converted to the corresponding CV values between -3V & 5V.

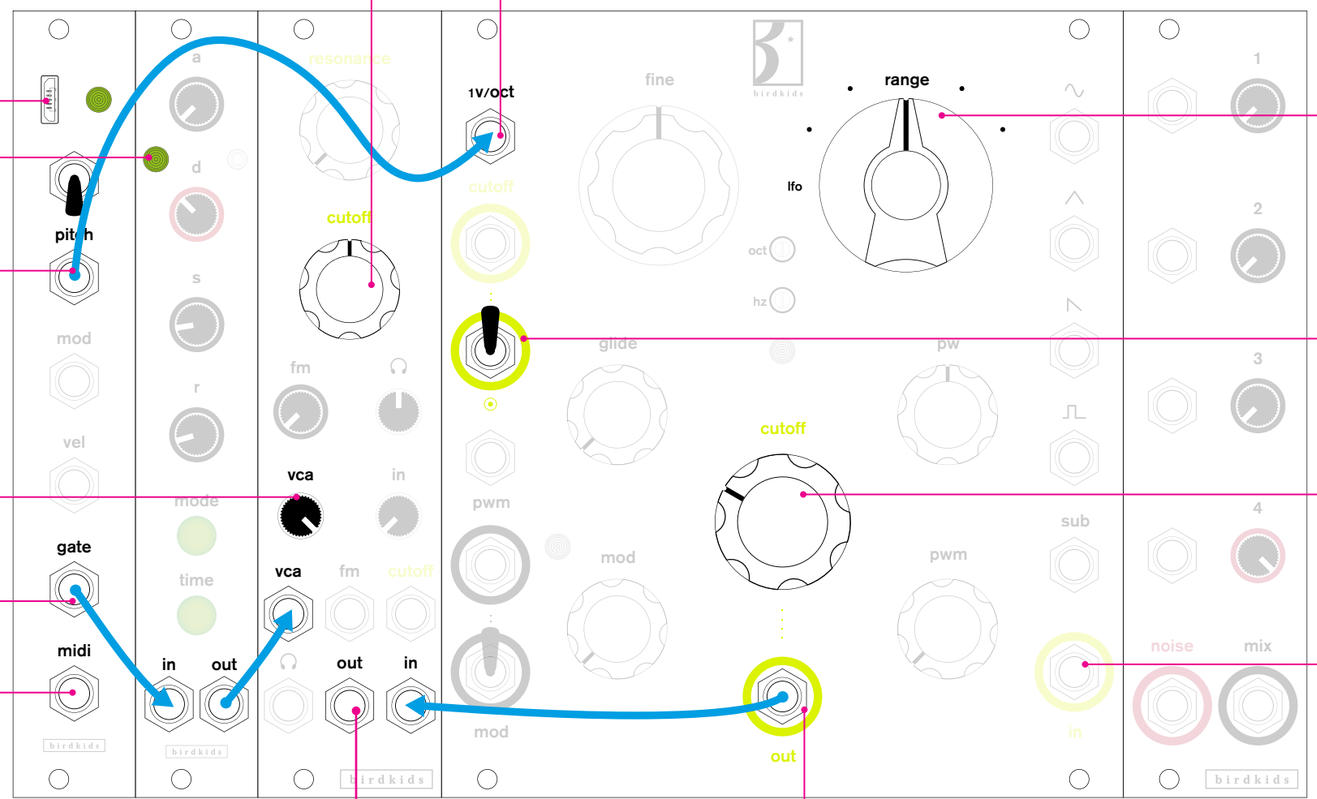
Set the VCA's modulation depth.
The Envelope Generator's settings will affect the sound's transient response and duration.
Experiment with settings & listen :)

Suggested patching: Power / MIDI gate output to Envelope Generator trigger/gate input. Envelope output to Expander VCA modulation input.

Use supplied MIDI-to-3.5mm Adapter to convert external MIDI data** to analog Control Voltages.

*Check your USB source for Power ratings!

**Power / MIDI is set to receive MIDI via CH1 by default.



The range control, in the middle position corresponds to roughly A2 = 110Hz with no voltage applied externally.
Consult TheBateleur Voltage Controlled Oscillator technical specifications for full range of control values.

Set the VCF mode switch to the TOP position for a classic, 4-Pole, Low Pass Filter behaviour.

Set the VCF's cutoff frequency.
This will attenuate the sound's frequencies above the cutoff frequency.

The VCO's sub output is normalized to the VCF's input.

Main Audio output.
-5V to 5V EURORACK level output.

A square wave, one octave below the VCO's base frequency, will be present at the VCF's output by default.

birdkids