

# Fifths Computer Card

This card is based on an idea originally dreamed up for monome's crow. It is a VCA (technically a ringmod) that goes into a Sample & Hold, which is sent into a looper / quantizer. The quantizer always uses the major scale but the key-centre is movable around the circle of fifths using the main knob or CV.

The two 1v/Oct signals at the CV outputs represent a root note and an “ambiguous” third relative to that root. The quality of the third (major/minor) and therefore the distance between the two outputs depends both on the current key-centre and the current quantized scale degree.

Goldfish-style looper here. Write to the loop with the switch up. Loop with the switch in the middle.

There is also a stochastic pulse generator here that drops some of the internal clock pulses. The resulting patterns are also looped for irregular rhythmic fun.

Final bonuses: You can just use it as a VCA as that output is available. The first audio output is also a simple offset voltage based on the big knob. Great for self-patching! Note there are two secondary knob functions available when you hold the switch down.

**A big thank you to Tom Whitwell & Chris Johnson as always**

