“Beats and Bytes”

Beats and Bytes is a live-coded audiovisual performance, utilizing algorithmic sound generation and visuals.

The following piece uses no samples, oscillators, or unit generators of any sort. It does not have a score or “instruments” at all. In fact, the sound is generated from a single line algorithm based on arithmetic and logical operators. Each sample is computed in real time and played as an 8-bit 8kHz PCM(Pulse-code modulation) stream. Utilizing the live-coding functionalities of ChucK, the program and algorithms are edited or re-written on the spot.