After Later Audio — Ornament and Crime

- Manual PDF

Ornament & Crime v1.3 User Manual (PDF)

Creative Uses for Ornament & Crime: Patching Strategies & Module Pairings

The Ornament & Crime (O&C) is extraordinarily versatile, providing quantization, sequencing, LFOs, envelope generation, chaos CVs, reference voltages, and more. Here are some creative patch ideas and module pairings that unlock novel possibilities:

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1. CopierMaschine: Polyphonic Quantized CV Recorder

- **What it does:** Four-stage “analogue shift register” with quantization, scale masking, delay, and S&H tricks.
- **Try this:**
    - *Combination:* Pair with a multi-output sequencer (e.g. **Malekko Voltage Block** or **Intellijel Metropolix**) running slow, dreamy sequences. Route each quantized output from O&C into four separate oscillators (**Doepfer A-110**, **Mutable Plaits**, etc) for instant chord memory/voicing.

- *More Depth:* Clock O&C's ASR from unusual rhythmic sources (e.g., a **Mutable Grids** or any Euclidean rhythm generator). Modulate the 'buf.index' with an LFO or random source for unpredictable delays and generative melodies.

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2. Harrington 1200 / Automatonnetz: Chord Progression Engine

- **What it does:** Tonnetz-based triad generator with hands-on, triggerable transformations and chord sequencing.
- **Try this:**
  - *Combination:* Use outputs B/C/D into a group of oscillators with a **4ms VCA Matrix** for chord morphs and key changes. Patch outputs through individual envelope-VCA-VCF chains for lush pads or evolving textures.
  - *Automation:* Automate inversion and mode via an **Expert Sleepers FH-2/CV expander** for programmable control over harmony shifts and modulations.
  - *Euclidean Triggers:* Pair with a **NE Stoicheia** or **ALM Pamela's Pro Workout** for complex, polyrhythmic chord progressions.

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3. Quantermain / Meta-Q: Quad/dual Advanced Quantizer

- **What it does:** Four fully independent quantizers with user/scale editing and complex internal CV sources.
- **Try this:**
  - *Generic combo:* Use with a chaotic/random CV generator (**Make Noise Wogglebug**, **SSF Ultra-Random**). Send four outputs to four voices, or two to voices and two to modulation inputs elsewhere for "musical randomization."

- *Microtonality:* Program custom scales or select microtonal tunings. Pair with tunable VCOs (**Intellijel Dixie II+** or **Verbos Complex Oscillator**) for quarter-tone or Bohlen-Pierce experiments.
- *Continuous quantization:* Use cnt+ or cnt- modes for pitch glide/portamento effects, feeding an LFO or stepped CV in for rich, evolving, but always "in-scale" pitch lines.

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4. Quadraturia: Quad Wavetable LFO Factory

- **What it does:** Four phase-locked or ratioed waveform LFOs with wave/morph/offset/spread and tap tempo.
- **Try this:**
  - *AM/FM Modulation Matrix:* Patch each Quadraturia output to modulate the cutoff on different filters, the FM input on oscillators, or the morph input on wavetable modules.
  - *Animated Stereo:* Send LFO outputs to panners, delay times, and VCA amplitudes across your stereo field for shifting, psychedelic spatialization (**Happy Nerding PanMix**, **Doepfer A-134**).
  - *Audio Rate for Wavetable FX:* Use high frequency settings, filter the results, and treat as lo-fi oscillators or complex modulation signals.

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5. Low-rents: Chaotic CV Catalysts

- **What it does:** Lorenz and Rössler attractor CV generation: high-dimensional, never-repeating chaos.
- **Try this:**
  - *Wild Modulation:* Patch to filter cutoffs, oscillator wave morphs, VCAs, or digital effect parameters for evolving, organic textures.

- *Scope Show:* Patch outputs to a vector oscilloscope (**LZX Visual Cortex**, **Junsi DS212**) for mesmerizing generative visuals along with your sound.
- *Locked Chaos:* Modulate Rho/c with sequenced voltages for semi-predictable, “controllable” chaos.

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6. Piqued: Quad Envelope & Rhythmic Architect

- **What it does:** Four highly programmable, voltage-controllable envelope generators with Euclidean triggering.
- **Try this:**
  - *Euclidean Percussion:* Use to generate complex rhythmic envelopes into drum modules (**ALM Akemie’s Taiko**, **Noise Engineering Basimilus Iteritas**).
  - *Rhythm to Modulation:* Gate-modulate filter or effect modules, or create choppy stutter effects on audio/CV VCA paths.
  - *CV Looper Modes:* Turn looping envelope types into complex LFOs, which you can further route or crosspatch for pseudo-generative behaviour.

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7. Sequins: Step Sequence Everything

- **What it does:** Two channels, four sequences each, up to 16 steps/sequence, sequence chaining, voltage addressing, and envelope outs.
- **Try this:**
  - *Programmable Carrier/Modulator Pair:* Use the two channels to address the main oscillator’s pitch and a secondary modulation parameter (e.g., wavefold, filter, FM amount) for “meta-sequencing.”
  - *Permutation/Glitch:* Use external CVs to address sequence step or length for generative results. Feed

Korg SQ-1, Make Noise Pressure Points, or similar sequencers for hands-on performance.

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8. Dialectic Ping Pong: Bouncing Ball LFOs

- **What it does:** Simulates balls bouncing for complex, decaying/accelerating envelopes—lovely for organic trigger sources or wild modulation.
- **Try this:**
    - *Organic Percussion:* Patch into plucked-string modules (**Mutable Elements**, **Endorphin.es Blck_Noir**) or LPGs for naturalistic triggering.
    - *Gravity Modulated by CV:* Automate gravity/bounce loss with modulation for ultra-lifelike, self-evolving modulations. Pair with a joystick or manual CV controller for “playing” gravities live.

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9. Viznutcracker, Sweet!: Bytebeat Synthesis & Sequencing

- **What it does:** Four independent Bytebeat equations; can be audio rate or sloooow CV for algorithmic sequences.
- **Try this:**
    - *Audio Processing:* Patch raw (lo-fi) audio to a filter bank (**Mutable Shelves**, **Intellijel Polaris**) for digital chiptune/grit fun.
    - *Bytebeat CV Sequencing:* Set speed low, use result as stepped CV into quantizers, LPGs, or morphable effect parameters. Can act as unpredictable, “mathematical” melody/morph source.

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10. Acid Curds: Algorithmic Chord Machine/ Sequencer

- **What it does:** Step/fixed CV-triggered chord progressions, with voicing, inversion, and direction options.
- **Try this:**
    - *Polyphonic Chords:* Outputs -> four oscillators (or a polysynth accepting multiple pitch/gate inputs, e.g. **Poly End Poly 2**), for patchable polyphony with evolving, sequenced chords.
    - *CV addressing:* Use a joystick, touch surface, or random voltages to select chord progressions for live harmonic improvisation.
    - *Rhythmic Progressions:* Use drum triggers or percussion gates to step through chord progressions for live, performance-timed harmonic changes.

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11. References: Precision Tuning, Calibration, & Metering

- **What it does:** Reference voltages for tuning/calibration, high-precision frequency and BPM metering, note tuning, closed-loop VCO calibration.
- **Try this:**
    - *Tuning Utility:* Use as VCO reference to build “just-tuned” chords or sequence precise microtonal intervals.
    - *Frequency Cross-Referencing:* Pair with **Expert Sleepers Disting** or **Korg Tuner** for module calibration, tape/field recording sync checks, or even comparative testing in a modular system.
    - *Live BPM Sync:* Meticulously sync vintage drum machines or DAW clocks via the BPM output.

Bonus: All-In-One Generative Patch

- **Example Recipe:**
    - Run Piqued in Euclidean mode to trigger outputs of Quantermain in LFSR Turing Machine mode.
    - Send Quantermain channels to four oscillators, running through VCA/VCFs, whose cutoff/modulation is controlled by Quadraturia's LFOs.
    - Send another Piqued channel to trigger Low-rents reset, and Quantized outputs to Viznutcracker, Sweet! (running slow, for algorithmic sequence modulation).
    - Cross-patch with a logic module (**Doepfer A-166**, **Intellijel OR**) for generative, never-repeating soundscapes!

General Module Type Recommendations

- **Envelope Followers:** Patch Oscillator or external audio through an envelope follower, modulate O&C parameters in real-time ("audio to harmony" patches).
- **Matrix Mixers (e.g., Doepfer A-138m):** Route multiple O&C outs to multiple mod targets, hands-on blend for complex animation.
- **Random Generators / S&H:** Feed their signals into O&C quantizer/scaler for musical randomness.
- **Logic Processors & Gate Sequence Modules:** Combine O&C triggers with Boolean logic (**SSF Propagate**, **Doepfer A-166**) to unlock advanced rhythm/switching.
- **Manual CV Controllers/Touch Plates:** For live performance and "macro" control of major O&C parameters—especially awesome with chord machines, chaos, or bytebeat settings.

"Deep Dive" Utility Use Cases

- **Calibration:** Precise calibration for all modules; reference voltages for troubleshooting.

- **Testing Other Modules:** Feed known multichannel O&C outputs into new filters/mixers/etc for module reviews and development.

This summary just scratches the surface. **O&C is a system expander**—with the right patching, it can elevate any modular setup, from generative ambient to precision-tuned minimalism, quirky grooves, or chaotic sound design.

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