Rebel Technology — Stoicheia

- Manual PDF

Stoicheia Manual PDF (Source: Rebeltech.org)

Creative Patch Ideas for the Rebel Technology Stoicheia

Dual Euclidean Sequencer for Eurorack

The Stoicheia is a versatile rhythm generator based on Euclidean algorithms, which allows you to algorithmically create a rich variety of rhythmic sequences. Here are some creative ways to integrate the Stoicheia with other modules:

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1. Dual Rhythmic Layering for Polyrhythms

Because Stoicheia provides two independently controllable Euclidean sequencers, patching each output to individual sound sources (e.g., two drum modules like 2hp Snare and Tiptop Audio BD909) allows immediate polyrhythmic interplay.
- **Tip:** Vary sequence lengths and fills to create evolving, interlocking patterns.
- **Extra:** Use rotation to create syncopation and rhythmic displacement.

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2. Sequenced CV/Gate Modulation

Use one sequence not for triggering audio but to modulate the behavior of another module.
- Patch output to the gate/trigger of an LFO reset, a sample & hold, or a slew limiter like Doepfer A-171-2. - Create Euclidean-based filter modulations by triggering envelope generators (Intellijel Quadra, ALM Pip Slope, etc.) to modulate a filter cutoff.

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3. Melodic Sequencing with Quantizers

Feed Stoicheia's rhythm into a quantizer (e.g., Intellijel Scales) for melodic/random note sequences.
- Pair sequence output with a random voltage source (Mutable Instruments Tides in random mode, Wogglebug) for generative melodies, only allowing notes through on certain Euclidean triggers.

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4. Rhythmic CV Routing via Sequential Switch

Send Stoicheia triggers into the clock input of a sequential switch (e.g., Doepfer A-151), for regularly or irregularly stepping through multiple pitch or timbre sources.
- Result: Changing textures or instrument focus based on rhythmic patterns.

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5. Cross-Modulation and Self-Referencing Patches

Patch one sequence output to the reset input of the other, or use alternating reset signals (from the Pamela's New Workout or similar) for complex, evolving patterns.

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6. Conditional/Probability Rhythms

Insert logic or probability modules (e.g., Mutable Instruments Branches, [Doepfer A-166 Dual Logic]) after one or both Stoicheia outputs: - **Branches:** Get “occasional” triggers for ghost notes or fills. - **Logic:** Use “AND”/“OR” to combine Euclidean rhythms for hybrid patterns.

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7. Chained/Complex Song Part Sequencing

Use Stoicheia’s chained mode to build longer or multi-part song patterns—send chained outputs to a drum module with multiple voices (e.g., Endorphines BLCK_NOIR). - **Pro tip:** Alternate between chain mode and normal mode using manual or voltage-controlled switching for even more dynamic structures.

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8. Live Performance Parameter Morphing

Use external CV sources (e.g., Mutable Instruments Stages, Intellijel Planar2) to modulate Stoicheia’s length, fills, or rotation parameters in real time during a performance.

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9. Clock Division/Multiplication: Groovy Clocks

Send Euclidean outputs to trigger clock dividers/multipliers (4ms RCD/RCM, Doepfer A-160-2), then clock other sequencers for rhythmic grooves that evolve with your Stoicheia patterns.

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10. Synchronizing Lighting or Visuals

If you're integrating audiovisual elements, Stoicheia outputs can be used to trigger synchronized events in Eurorack video synthesis (LZX Industries modules) or DMX lighting converters for stage shows.

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11. Triggering Sample Players with Evolving Grooves

Run Stoicheia outputs (direct or logic-combined) into a sample player (1010music Bitbox, Make Noise Morphagene) for intricate, generative percussion or glitch textures.

General Patch Tips:

- **Rotate and modulate for interest:** Modulating "rotation" opens up morphing, always-evolving beats.
- **Sequence drum fills:** Use short, high-fill sequences alongside longer, sparser patterns for organic drum fills.
- **Microtiming:** Patch a pulse-width–modulated LFO as the input clock for off-grid ("swinged") rhythms.

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