

Mutable Instruments – Marbles

- [Manual PDF](#)
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[Marbles Original Manual \(PDF\)](#)

Mutable Instruments Marbles: Creating Hyper-Complex Rhythmic/Polyrhythmic Percussion

Mutable Instruments **Marbles** is a powerhouse for generative rhythmic and melodic sequencing. To use it as a machine for densely rhythmic and hyper-complex percussion sequences, take advantage of these key features and workflow tips:

1. Random Gate Generator: Multi-Channel Rhythm

- **Multi-Channel Output:** Use the three gate outputs (`t1`, `t2`, `t3`). Each can trigger different percussion modules or drum voices (like kick, snare, hats, etc.).
- **Generative Models:** Select between:
 - *Random routing/coin toss* for unpredictable splitting of pulse streams.
 - *Random division/reciprocal factors* for mechanical, evolving syncopation.
 - *Grids-inspired rhythms* for organic drum patterns and fills.
- **Adjust Jitter:** Increase the *Jitter* control for microtiming variation; this adds a human, alive feel, or twist it all the way up for a chaotic, glitchy groove.
- **Gate Widths:** Set short gates for clicks, sharp percussion; increase gate length or randomize it for bursts, rolls, or pseudo-flams.

2. Master Clock and External Synchronization

- Use internal or external clocking—multiply/divide the clock, or let Marbles follow irregular external rhythmic material.
 - Polyrhythm Generator: Send different clock divisions (with range selector) to each `t` output for instant polyrhythmic action.
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3. DEJA VU: Probabilistic Looping and Shuffle

- Increase **Deja Vu** to "lock in" fragments of random rhythm for looping patterns, then shuffle the sequence for further complexity.
 - Change **Loop Length** dynamically—short for tight ostinatos, long for slowly shifting evolution.
 - **Live Remix:** Use external CV as a basis for probabilistically remixed, mangled drum lines.
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4. Random Voltage Generator for Modulation

- Patch the `X` outputs to modulate percussion parameters: envelope decays, filter cutoff, or drum voice parameters for ever-evolving timbres.
 - Use **Spread** and **Bias** to morph between subtle and wild expressive ranges.
 - **Quantized Mode:** Can make X outputs step between specific values for FM rhythms (tuned percussion, pinged filters, etc.).
 - **Slew Mode:** Use continuous voltages to generate gliding percussion parameters (think morphing metallic sounds or pseudo-LFOs for percussion design).
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5. Quantizer/Scales: Rhythmic and Melodic

- Program scales by playing in accents/rhythmic patterns—the machine will bias random steps to follow your principal rhythm, creating emergent structures.
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6. External CV Processing

- Run external sequences or LFOs into Marbles' CV processing chain. Let Marbles buffer, loop, structure, and shuffle your external sources... then re-randomize. Great for remixing sequences and making "derived" patterns with a percussive edge.
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7. Output Diversity for Complexity

- Each output can respond differently (complementary/random/opposed) to the main controls—experiment with dialing in different Spread/Steppiness/Deja Vu for each channel.
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Top Tips for Dense, Punchy, Unique Percussion

- **Multitrack:** Send each gate output to a different sample/voice, modulate their parameters with X outputs.
 - **Trigger Repeats/Flams:** Modulate gate length/randomization for bursts or flam-like effects.
 - **Rhythm as Modulation:** Use clock, triggers, and random CVs to modulate effects (VCAs, filters, wavefolders, delay feedback) for percussive color.
 - **Exploit Clock Divisions:** Use complex divisions/multiplications (with uneven settings) for asymmetric time signatures (e.g. 5 against 7, 3 against 4).
 - **Layer Microtiming:** Jitter and random duration gives percussion a "drunken master" groove.
 - **CV Processed Looping:** Pipe in a riff from another sequencer, let Marbles break and reshape it ad infinitum.
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Marbles is not a percussive voice itself but a prime, generative source for clock/gate/CV patterns to feed your drum voices, channeling both mathematical and intuitive chaos for fresh, endlessly evolving beats.

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