ChaosArp

Chaotic arpeggiator plugin - Quick Guide

Description

Introducing ChaosArp, the next-level MIDI arpeggiator designed to transform your musical ideas into intricate, dynamic patterns with a unique twist. ChaosArp is not just any arpeggiator; it's a powerhouse tool that uses the same advanced algorithms as LoAdKer to modulate pitch, rhythm, velocity, and duration, creating evolving, complex but high musical patterns that breathe life into your music.

Dive into the heart of your creativity with ChaosArp's innovative 'rhythm event' feature, which allows you to explore a variety of rhythmic modifications. From repeaters to stretchers and rests for extra space and emphasis—ChaosArp has it all. Each one of these rhythm events can be assigned to any of the 6 available slots, offering limitless possibilities.

Fine-tune your sonic exploration with the innovative 'variance' control - which goes one step beyond the simple 'probability' control that most arpeggiators have. Adjusting this setting for either pitch or rhythm (or both) will vary the character of the generated sequences, from fairly minimalistic to completely chaotic, thus opening up a world of endless variations.

Elevate your music production today with ChaosArp and unleash patterns that inspire!

Features

- Variable rate, from 1/128 to 4 beats
- 3 modes (up, down, up/down)
- 1 to 4 octaves range
- Latch mode
- Pitch randomizer with probability and variance control and random octave

- Rhythm event selector with probability and variance control
- 6 assignable rhythm event slots
- 13 rhythm event algorithms, including repeaters, stretchers, and rests
- Repeat, stretch, and repeat rest probability controls for further customization of the rhythm event algorithms
- Randomizable velocity and duration with variable range
- 4 performance buttons that temporarily override the probabilities of pitch, rhythm, velocity, and duration
- Most parameters are automatable

Installation

ChaosArp is installed by default in the following locations (desktop versions):

Mac

AU
`/Library/Audio/Plug-Ins/Component/ChaosArp.component`
VST3
`/Library/Audio/Plug-Ins/VST3/ChaosArp.vst3`

Windows

VST3
`C:\Program Files\Common Files\VST3\ChaosArp.vst3`

You can uninstall ChaosArp by simply deleting those file(s).

Usage

ChaosArp is a MIDI arpeggiator. Connect a MIDI source to its input, a sound source to its output, hit some notes and that's it!

Rhythmic Events

ChaosArp can modulate the rhythm of the playing notes by replacing a pulse with a *rhythm event*. These events include repeaters (play multiple notes within the duration of a pulse), stretchers (stretch a pulse by a factor, e.g. x2), and rests with variable duration.

Any rhythmic event can be assigned to one of the 6 available slots. When and how the rhythmic events are selected depends on *probability* and *variance*.

Probability/Variance

ChaosArp uses two parameters to control its generative capabilities: probability and variance. The probability is pretty straightforward: it controls the probability of a rhythm event occurring, or the next note's pitch to be replaced by another etc.

Variance, a parameter based on chaotic properties of non-linear sequences, is the degree of predictability of selecting an event from a set. When the variance is low, selection is predictable and limited. As the variance grows, so does the unpredictability of selection.

What makes variance interesting though is that, for every value, it generates a unique pattern, that is still recognizable, no matter the degree of complexity and unpredictability, a feature that makes it very useful for music applications.

Pitch probability/variance

The parameters above (probability and variance) are also applied to the pitch in ChaosArp. Thus, you can create interesting and unique melodic/arpeggio patterns just by experimenting with different variance values.

Tool Panel

From left to right

Play button

Turns ChaosArp on or off. When is set to off, incoming MIDI notes will be audible but not arpeggiated.

Latch button

Turns latch mode on or off. ChaosArp's latch mode is simple: every played note is sustained until cleared.

Clear latch button

Clears all latched notes.

Save preset button

Saves the current preset in the user presets folder.

Load the previous preset button

Loads the previous preset, including both factory and user presets.

Current preset button

Displays the current preset. When clicked/tapped it opens the preset selector.

Load the next preset button

Loads the previous preset, including both factory and user presets.

Delete preset button

Only for user presets - it does not affect factory presets.

Randomize button

Randomizes ChaosArp's parameters.

Undo button

Undo.

Redo button

Redo.

Settings button

Opens the Settings menu.

Pitch Panel

From left to right, top to bottom

Pitch probability selector

The probability of a random pitch (selected among the playing pitches).
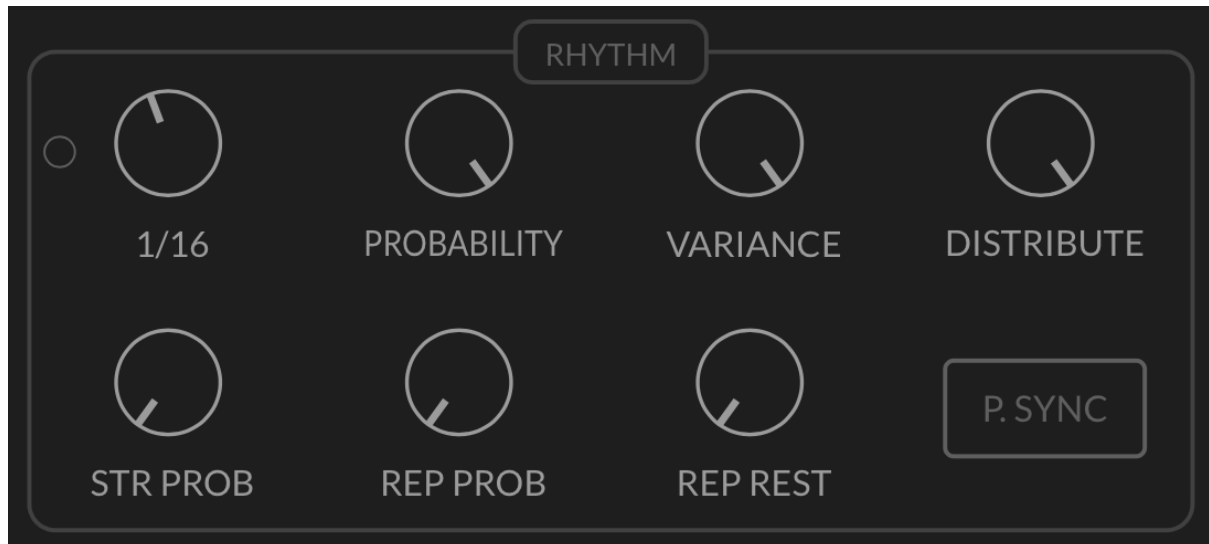
Pitch variance selector

The pitch variance.

Arpeggiator mode selector

The arpeggiator's mode - up, down, up and down.

The arpeggiator's octave range.

Rhythm Panel

From left to right, top to bottom

Arpeggiator rate selector

The arpeggiator's rate.

Rhythm probability selector

The rhythm event probability.

Rhythm variance selector

The rhythm event variance.

Rhythm probability distribution selector

The rhythm event probability distribution between odd and even numbered beats. Lower values increase the probability of a rhythm event happening on an odd-numbered beat (e.g. 1, 3 etc.) whereas higher values mean that the rhythm event is more likely to occur on an even-numbered beat such as 2 or 4. When in the middle, the probability is equal for all beats. You can use this parameter to experiment with different

Rhythm event stretch probability selector

The probability of a repeater rhythm event to stretch in duration, e.g. for a repeater that plays 2 notes within a pulse to become a repeater that plays 2 notes within 3 pulses.

Rhythm event repeat probability selector

The probability of a stretcher rhythm event to repeat the note, e.g. for a stretcher that plays one note within 3 pulses to play 5 notes within these pulses.
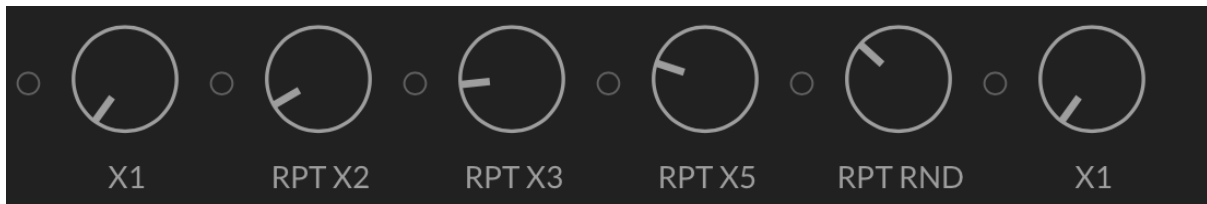
Repeat rest probability selector

The probability of a repeater rhythm event to skip at least one of the repeats, e.g. for a 3x repeater to skip the middle repeat.

Pitch sync button

When on, every playing note will be assigned the next arpeggiated note. Therefore, every repeat, for example, will have a different note.
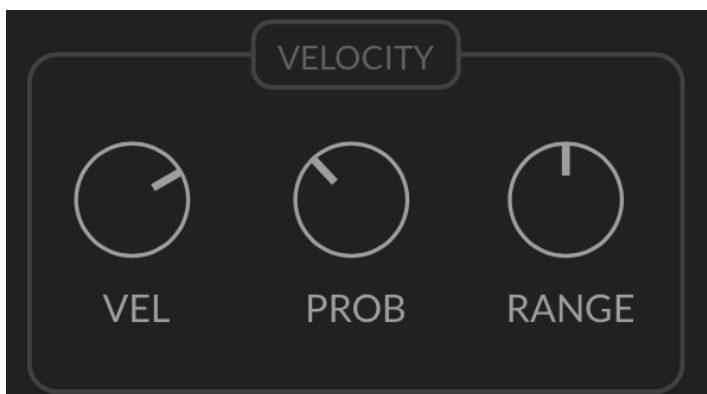
Rhythm Event Selector Panel

Rhythm event selectors

The rhythm event type for each one of the 6 available slots.

Velocity Panel

From left to right

Fixed velocity selector

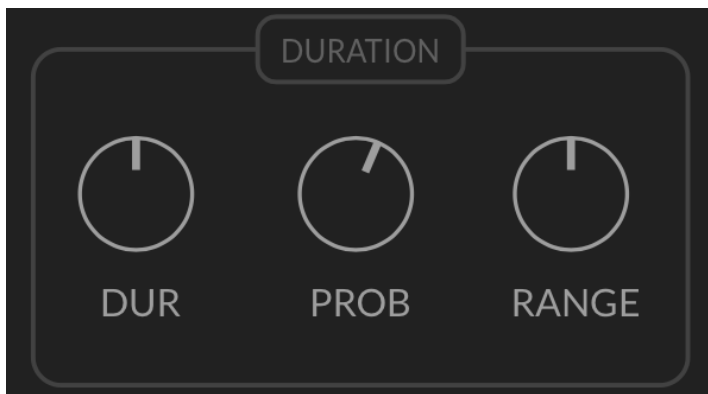The (MIDI) velocity of the arpeggiated notes.

Velocity probability selector

The velocity probability.

Random velocity range selector

The range of random velocity, centered around fixed velocity. For example, if the fixed velocity is 64 and the range is set to 100%, the random velocity will be between 1 (Farpeggiator does not produce notes with 0 velocity) and 127.

Duration Panel

From left to right

Duration selector

The duration of the arpeggiated notes.

Velocity probability selector

The duration probability.

Random velocity range selector

The range of random duration, centered around fixed duration. For example, if the fixed duration is 50% and the range is set to 100%, the random duration will be between 1 (Farpeggiator does not produce notes with 0% duration) and 100%.
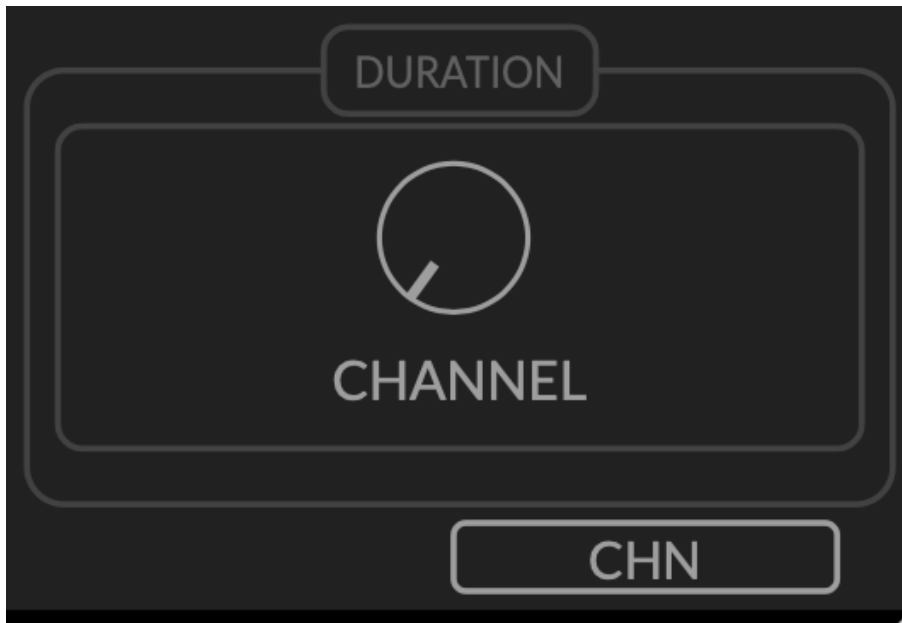
Performance View
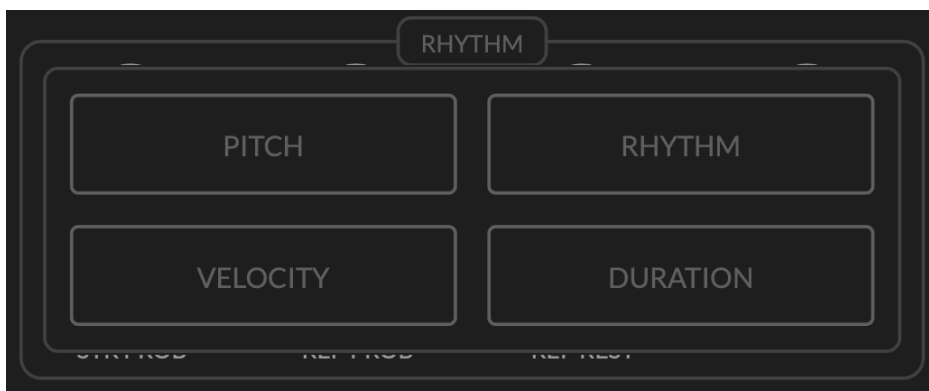
Performance buttons

Turn the probability to 100% while pressed.

Performance view button

Shows/hides the Performance view.

Output Channel View

Output channel selector

The (MIDI) output channel.

Output channel view button

Shows/hides the Output channel view.