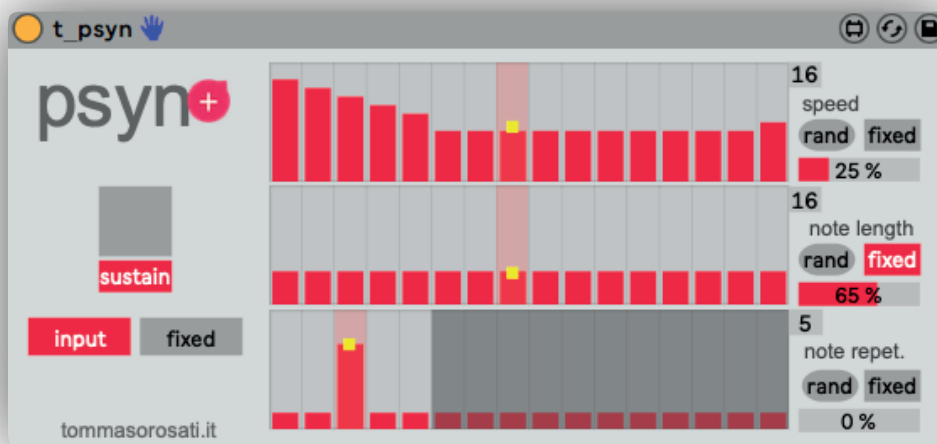


psyn⁺ max for live pattern synthesis sequencer

user manual



Psyn is a pattern synthesis sequencer instrument

Taking its cue from Mark Fell's work on the Multistability album and the papers before it, this device creates rhythmic patterns in an unconventional way. Each step can have a different duration, a different amount of note repetitions and a different note duration. This creates patterns that can range from complex rhythms to real timbres given by the very fast repetition of notes.

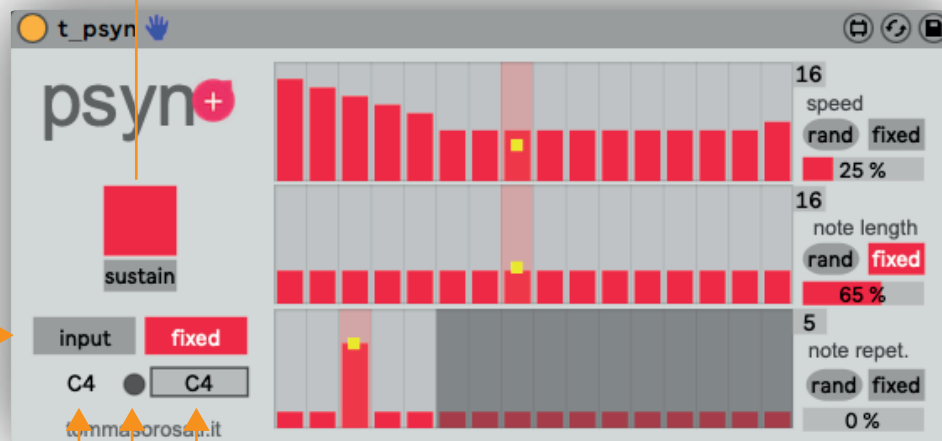
Basically it's a MIDI effect but it has the possibility to act as a real musical instrument. The Timbre that is generated by setting very fast patterns is based on the instrument device that follows it.

The notes it generates can be a fixed note or even input notes (single or chords also) on the track. In sustain mode the input notes can even decide when the sequencer should start and when it should stop, creating a real musical instrument.

Usage

2 toggle

Start/stop sequence

In **sustain** mode the incoming MIDI note ON-OFF start-stop the sequence

last incoming note

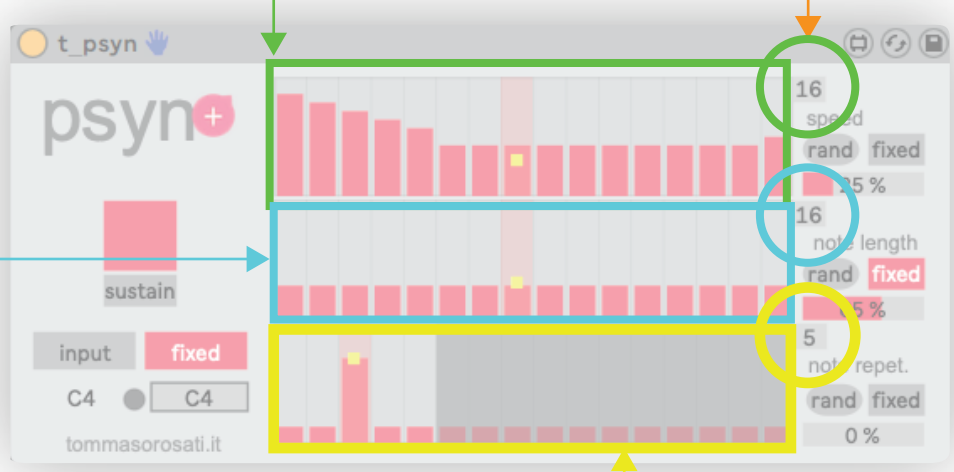
note out (fixed mode)

set last incoming note
to note out (fixed mode)**1** which note to play?

- **Input:** a single note or chords from midi input
- **Fixed:** a fixed single note

* psyn works only when Live transport is active





number of steps
For each parameter

speed
Choose the speed of each step expressed in note duration

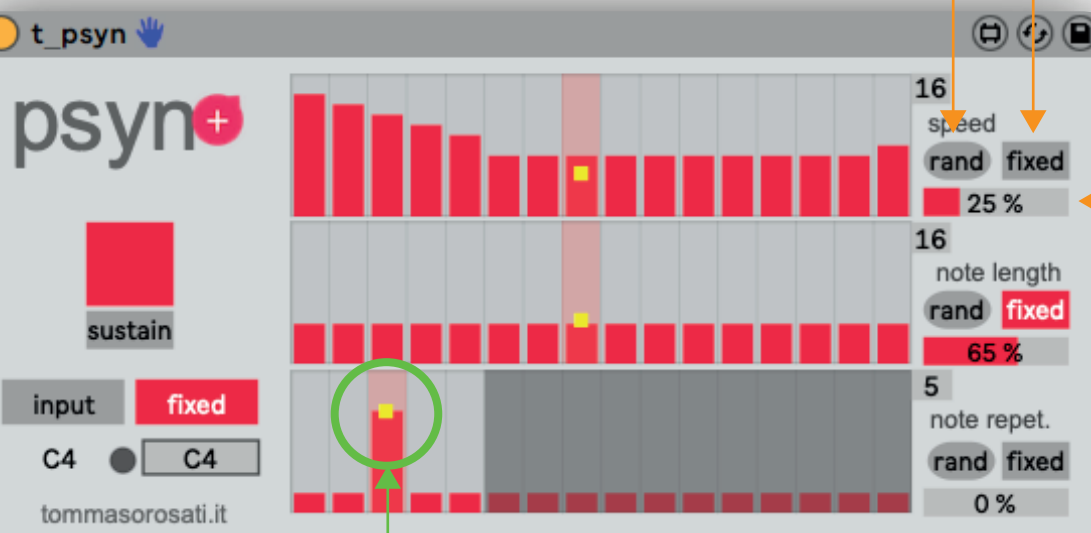
note length
Choose the note duration of each step expressed in relative time linked to number of repetitions.
for example if you have a step at 100 and the repetitions are 2 at a speed of 1/4 note you get 2 1/8 notes

note repetitions
Choose the amount of repetitions of each step

The screenshot shows the psyn+ interface with a piano roll and a parameter control panel. The piano roll has three tracks: 'speed' (top, green box), 'note length' (middle, blue box), and 'note repetitions' (bottom, yellow box). The parameter panel on the right shows values for each track: speed (16), note length (16), and note repetitions (5). The 'speed' parameter is set to 'rand fixed' with a 75% chance. The 'note length' parameter is also set to 'rand fixed' with a 75% chance. The 'note repetitions' parameter is set to 'rand fixed' with a 0% chance. The 'input' is set to 'fixed' at C4. The 'sustain' button is highlighted in red.

rand
push this button to instantly randomize all the steps

fixed
if you turn it on, when you enter a value for one step it is applied to all the others



random %
choose the percentage of random variation with the values of each step

current value
Yellow square indicates the current value of the parameter

References

- CYCLING '74, MAX/MSP reference manual Version 6, Cycling '74, 2012
- CURTIS ROADS, The computer music tutorial, The MIT press, 1996
- ABLETON, Ableton Live reference manual Version 9, Ableton, 2013
- Works in sound and pattern synthesis ~ folio of works by Mark Fell

DOWNLOAD
<http://gum.co/psyn>

- piymaxforlivedevices
- piu_maxforlive
- t0mm3