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27X

775

* 675 827

200 N

728

22X

* (25)

 $s = \begin{pmatrix} 7N \\ 2N \end{pmatrix} \quad \text{as} \quad \begin{pmatrix} 7N \\ 2N \end{pmatrix}$

9 - 69

SEQUENCER

MANUAL

27X

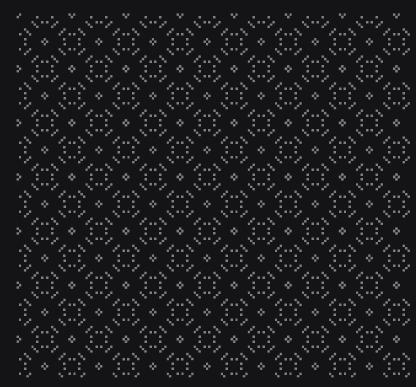
728

22×

 $\left\langle \left\langle \right\rangle \right\rangle$

 $\left\langle \begin{array}{c} 1 \\ 1 \\ 1 \end{array} \right\rangle$

275



· : PATTERN 22 · . . : MODIFY 1 . . . : SCALE 1 · . . . : GEXMODE 1 . . . : 22111 . . .

HELLO!

GFX-SEQUENCER IS A PATTERN BASED SEQUENCER FOR THE NORNS ENVIRONMENT.

IT CONSISTS OF TWO MODES: "MUSICBOX" WHERE THE PATTERNS ARE MOVING CONSTANTLY UPWARDS ON THE Y AXIS AND THE TOP LINE WILL BE CONVERTED INTO NOTES. SINCE THE DISPLAY OF A NORNS IS 128X64 PIXELS THE X-AXIS MATCHES THE AVAILABLE NOTES IN MIDI RANGE: 0-127. EVERY BRIGHT PIXEL ON THAT AXIS WILL BE CONVERTED INTO ITS CORRESPONDING MIDI NOTE.

IN THE SECOND MODE CALLED "SGRID" A 64X64 GRID IS CREATED WHICH WILL BE READ FROM LEFT TO RIGHT OR TOP TO BOTTOM. NOTES ARE DEFINED VIA AN EDITABLE SEQUENCE (8-64 STEPS).

THIS MODE HAS TWO SUB-MODES. SUB-MODE A: IN WHICH THE NEXT NOTE OF THE SEQUENCE WILL BE PLAYED EVERYTIME A BRIGHT PIXEL IS READ FROM THE PATTERN. THIS WAY PATTERNS DEFINE THE TIMING OF THE STEPS.

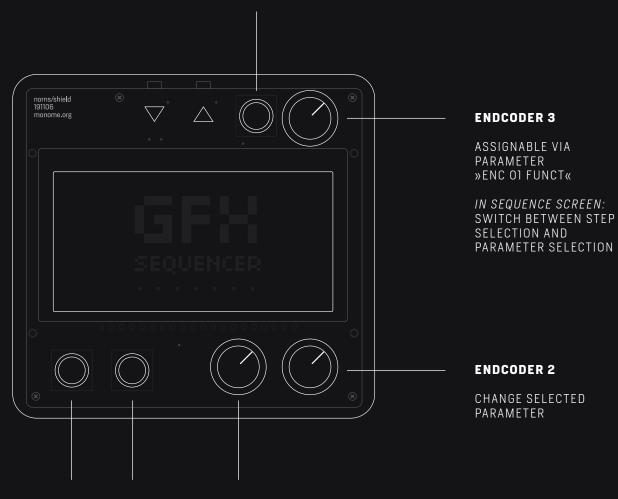
SUB-MODE B WHERE THE SEQUENCE WILL BE REPEATED OVER EVERY PIXEL OF THE LENGTH OF THE 64X64 PATTERN. THIS MEANS IN A 8 STEP SEQUENCE PIXELS 1-8 ARE STEP 1-8 AND PIXELS 9-16 AGAIN ARE STEP 1-8. IF A PIXEL IS BRIGHT THE CORRESPONDING NOTE OF THE STEP SEQUENCE IS PLAYED. THEREFORE IN THIS SUB-MODE PATTERNS DEFINE WHICH NOTES OF A SEQUENCE ARE SKIPPED OR PLAYED.

BUTTON LAYOUT



KEY 1

STANDARD FUNCTION



KEY 2

KEY 3

ENDCODER 1

SWITCH BETWEEN
PATTERN/ LFO/
SEQUENCE SCREEN

RESET Y-VALUE SELECT PARAMETER

PARAMETERS



PATTERN CHANGES THE BASIC PATTERN.
THE LOWER THE NUMBER THE
HIGHER THE DENSITY OF THE
PATTERN

MODIFY MODIFY CURRENT PATTERN

SCALING SCALE CURRENT PATTERN.
SCALING IS A BIT ROUGH DUE TO
THE ALLGORITHMS STRUCTURE

X-OFFSET MOVES THE PATTERN TO LEFT OR RIGHT

SCAN ROW IN MUSICBOX MODE THIS PARAM-TER DEFINES WHICH LINE WILL BE CONVERTED INTO NOTES

MIN NOTE DEFINES THE MINIMUM NOTE THAT WILL BE PLAYED. ALL NOTES WILL BE MAPPED TO THE RANGE OF THE PARAMETERS MIN NOTE. MAX NOTE

MAX NOTE DEFINES THE MAXIMUM NOTE THAT WILL BE PLAYED. ALL NOTES WILL BE MAPPED TO THE RANGE OF THE PARAMETERS MIN NOTE, MAX NOTE

NOTE LOSS SETS THE PROBABILITY THAT A
CHANCE NOTE WILL NOT BE PLAYED.
RANGES FROM 0% - 100%

SPEED SETS THE GLOBAL SPEED. THE HIGHER THE VALUE THE SLOWER SPEED WILL BE

PLAY EVERY
NTH NOTE
NOTE IS PLAYED. »2« MEANS
EVERY SECOND NOTE IS PLAYED.
»3« EVERY THIRD AND SO ON

GFX MODE CHOOSE ONE OF TWENTY ALGORITHMS TO GENERATE PATTERNS

SEND VIA OSC

ACTIVATE SENDING NOTES VIA
OSC. FOR SETTING UP THE
RECEIVER ADRESS SEE LATER IN
THIS DOCUMENT

ROOT SETS THE ROOT NOTE FOR A SCALE ALL NOTES WILL BE CONVERTED TO

SCALE CHOOSE A SCALE

SCALE ACTIVE ACTIVATE OR DEACTIVATE NOTE SCALING

LFO 1 TARGET SETS LFO 1 TARGET

LFO 1 AMOUNT SETS LFO 1 AMOUNT 0-100%

LFO 2 TARGET SETS LFO 2 TARGET

LFO 2 AMOUNT SETS LFO 2 AMOUNT 0-100%

SEND MIDI ACTIVATE OR DEACTIVATE SENDING VIA MIDI

MIDI SLEEP AFTER EVERY MIDI NOTE THERE

IS A FIXED PAUSE OF 0.01
SECONDS TO SEND A NOTE OFF
SIGNAL TO THE MIDI DEVICE.
THIS PAUSE CAN BE SCALED UP
WITH THIS PARAMETER

PLEASE NOTE:

DUE TO THE ALGORITHMS STRUCTURE SOME SETTINGS DO NOT YIELD RESULTS AND PRODDUCE A BLACK SCREEN. DON'T BE AFRAID THIS IS NOT AN ERROR.

ALSO SOME PATTERNS WILL DEGRADE OVER TIME OR END. TO RESET A PATTERN PRESS KEY 3 TO RESET IT TO ITS ORIGINAL Y VALUE.



:: PATTERN 16 :..: MODIFY 1 ..:: SCALE 5 ::..: GFXMODE 1 .::. 16151....

PARAMETERS



WIDTH REDUCES THE WIDTH OF THE
GRAPHICAL PATTERN. PIXELS
OUTSIDE THE WIDTH WILL NOT
BE CONSIDERED FOR NOTE
GENERATION AND ARE TURNED

OFF

WIDTH OFFSET OFFSETS THE WIDTH OF PATTERN

REDUCTION

ENC 01 FUNCTION DEFINES WHICH FUNCTION IS

SET ON ENCODER 01

SCAN DIRECTION SETS THE DIRECTION PATTERNS

ARE READ (ONLY AVAILABLE IN

»GRID« MODE)

Y-HEIGHT HEIGHT OF THE PATTERN (ONLY

AVAILABLE IN »GRID« MODE)

MODE CHANGE BETWEEN »MUSICBOX«

MODE OR »GRID« MODE

ENGINE ACTIVATE POLYPERC ENGINE TO

PLAY THE NOTES CREATED BY

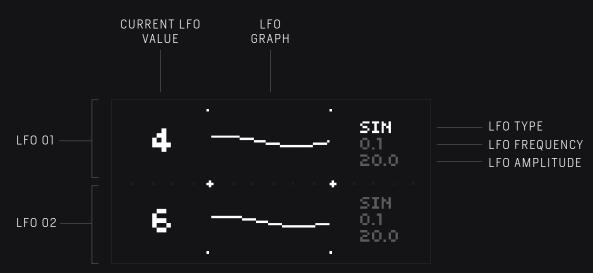
GFX-SEQ

ENGINE RELEASE RELEASE TIME FOR NOTES

ENGINE PW ENGINE PULSEWIDTH

LFO SCCREEN





LFO SELECT LFO TYPE. THE FOLLO-

TYPE WING ARE AVAILABLE:

SINUS TRIANGLE

SQUARE SAMPLE&HOLD

TANGENS (EXPERIMENTAL)

LFO SETS FREQUENCY OF THE LFO.
FREQUENCY WHEN SAMPLE&HOLD (S&H) IS

SELECTED THIS VALUE SETS THE PROBABILITY OF A CHANGE OF

VALUE. 10 BEEING 100%

LFO SETS THE AMPLITUDE OF THE

AMPLITUDE LF0

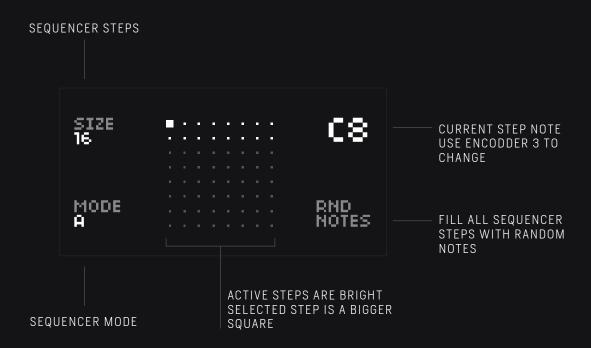
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:: PATTERN 7 :..: MODIFY 3 ..:: SCALE 15 ::..: GFXMODE 7 .:: 73157....

111

SEQUENCE SCREEN





RND TO FILL ALL SLOTS WITH

NOTES RANDOM NOTES SELECT »RND

NOTES « WITH ENCODER 2 AND

THEN WIGGLE ENCODER 3

! TO CHANGE BETWEEN THE SEQUENCE GRID AND THE SURROUNDING PARAMETERS USE ENCODER 1 MIDI YOU CAN SELECT THE MIDI DEVICE YOU WANT SEND MIDI DATA TO IN THE »EDIT« MENU. ALSO YOU CAN CHOOSE WHICH MIDI CHANNEL YOU WANT TO SEND ON.

PARAMETERS

EDIT >
PSET >
MAP >

CLOCK >

MIDI SETUP

midi target port 4: OP-1

send on midi channel 1.0

Mode MUSICBOX

OSC TO SEND DATA VIA OSC YOU NEED TO SPECIFY A RECEIVER IP ADRESS. SINCE I HAVEN'T FOUND A CONVIENIENT SOLUTION TO INPUT THIS YOU HAVE TO DO THIS MANUALLY. OPEN THE SCRIPT IN MAIDEN AND GO TO LINE 34 AND ENTER THE IP ADRESS YOU WANT TO SEND TO. (DON'T DELETE THE QUOTATION MARKS).

BY DEFAULT RECEIVER PORT IS 9001. YOU CAN CHANGE THIS HERE TOO IF YOU WANT.

IF YOU WANT TO RECEIVE OSC IN ABLETON LIVE I HAVE MADE A MAX4LIVE DEVICE YOU CAN DOWNLOAD ON MY GITHUB PAGE.

```
include "gfx-seq/lib/gfx"
include "gfx-seq/lib/deeg_utils"
include "gfx-seq/lib/deeg_lfo"

MusicUtil = require("musicutil")
engine.name = 'PolyPerc'

m = midi.connect(1)
style="font-search: search: sea
```

MIDI / OSC



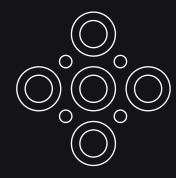


HAVE FUN!

I HOPE YOU HAVE FUN WITH THIS SCRIPT AND ENJOY USING IT! HOPEFULLY IT BRINGS YOU INSPIRATION AND GOOD TIMES CREATING BEAUTIFUL SOUNDS! CHEERS!



@deeg_deeg_deeg
github.com/deeg-deeg/



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