

Code Explanation Beta-Version: 1.00

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LITTLE COMPANION:
INTERNAL TRIGGERING

#I

O 0; @F 0 0 3 3; M BPM 125

Constraint for 0 – position of sequences; Matrix sequencer area definition; Metronome Speed

O.MAX 15; @WRAP 1; @X 0; @Y 0

Definition of sequences end step; Turtle is wrapping; Start position X of turtle; Start position Y of turtle

G.FDX 0 5 0 5 1 2 5 4 1 2; A 0

Creating both faders for trigger probability and CV – Slew; Avoids Turtle to move at the very first trigger in X direction

G.BTX 0 0 0 1 1 1 5 6 4 4; B 0

Creating Buttons for Matrix sequencer; Avoids Turtle to move at the very first trigger in Y direction.

G.GBX 3 64 0 4 1 1 1 3 0 16 4

Creating buttons for all 4 sequences.

G.GBX 2 16 15 0 1 1 1 5 0 1 1

Start / Stop Button

#M

IF G.BTN.V 16: \$ 4; \$ 10; BRK

Start / Stop for metro script. Reload \$ 4; Reload \$ I

G.GBTN.L 3 3 3; D O; \$ 4

Lights dim for all sequences; Counting from 0 – 15; Calling \$4 / condition of IN to choose Move type

TR.P 4; \$ 2; \$ 3

Trigger Clock Out; Calling X - move; Calling Y - move

IF G.BTN.V + D 96: \$ 1

Calling CV - Trigger according to CV - Trigger Sequence

L 4 7: G.BTN.L + D * I 16 10

Case light

#1

IF G.BTN.V + 112 D: K PN 1 16

Calling of trigger probability amount

IF G.BTN.V + 112 D: J PN 1 17

Calling of CV - Slew amount

CV.SLEW 1 * J 200

Setting CV – Slew amount

PROB * K 25: TR.P 1

Triggering TR 1 with recalled probability

CV 1 N @; J 0; K 100

Setting CV 1 Note at current turtle position; Reset CV Slew amount to 0; Reset probability amount to 0

#2 – Calling of X - Move

IF G.BTN.V + D 64: T 1

If current step is set active in the X - Move Sequence it activates constraint T for moving in X direction.

IF * T A: @MOVE PN 0 X 0

Moves turtle one step in X direction if T and A is set to 1. A is initially set to 0 to avoid a movement at first step of X - Move Sequence to have a synced step timing for matrix sequence and X - Move Sequence.

CV 2 N @; A 1

Sets current CV - Note on CV 2 – only at X – movements; After first step constraint A will be always 1

IF T: TR.P 2; T 0

If the current step is selected, it pulses TR 2; Constraint T (step active / inactive) will be reset to 0.

G.CLR; G.LED @X @Y 8

Clears all LEDs which were activated by an LED-OP; Activates LED at turtle position.

#3 – Calling of Y - Move

IF G.BTN.V + D 80: T 1

If current step is set active in the Y - Move Sequence it activates constraint T for moving in X direction.

IF * T B: @MOVE 0 PN 0 Y

Moves turtle one step in Y direction if T and B is set to 1. B is initially set to 0 to avoid a movement at first step of Y - Move Sequence to have a synced step timing for matrix sequence and Y - Move Sequence.

CV 3 N @; A 1; B 1

Sets current CV - Note on CV 3 – only at Y – movements; After first step constraint A will be always 1; After first step constraint B will be always 1

IF T: TR.P 3; T 0

If the current step is selected, it pulses TR 3; Constraint T (step active / inactive) will be reset to 0.

G.CLR; G.LED @X @Y 8

Clears all LEDs which were activated by an LED-OP; Activates LED at turtle position.

#4

PN 1 16 G.FDR.N 0

Write trigger probability fader amount to pattern.

PN 1 17 G.FDR.N 1; X 50; Y 50

Write CV - Slew fader amount to pattern; Setting movement direction X to 0; Setting movement direction Y to 0

W < IN V 4: X 48

If at IN Voltage < 4 is detected: X – movements will be +1.

W > IN V 6: X 49

If at IN Voltage > 6 is detected: X – movements will be -1.

W < IN V 2: Y 48

If at IN Voltage < 2 is detected: Y – movements will be +1.

W > IN V 8: Y 49

If at IN Voltage > 8 is detected: Y – movements will be -1.

#5

#6 – Recalled with push on a button in the matrix sequencer.

L 0 15: I; \$ 7

Recalls \$7 sixteen times with I 0 -15 for all 16 matrix buttons.

#7

C SCL 0 V 7 0 84 PRM

Sets C to a note scaled amount according to param knob.

IF G.BTN.V I: PN % I 4 / I 4 C

Checks activity status of matrix button and updates its CV – note amount if active.

CV 4 N C

Outputs CV Note C via CV 4.

DEL 200: \$ 8

Delays 200ms \$8 – determined through error and trail to get best compromised behaviour sequencer tightness / usability. May be adjusted if lagging occurs.

#8

IF > G.GBTN.C 0 1: \$ 6

If a button in the matrix is active repeat process \$6, \$7; \$8.

ELSE: BREAK

If no button in the matrix is active it breaks the loop for continuous CV – note setting.

#P

2	2	2	2
1	1	1	1
0	0	0	0
63	63	63	63

36	36	36	36
36	36	36	36
36	36	36	36
36	36	36	36
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	4	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
1	0	0	0
0	0	0	0
1	0	0	0
0	0	0	0
0	0	0	0
1	0	0	0
0	0	0	0

[illegible]