[documentation]

cheat codes

> loops	filters	euclid
levels	delays	arp
pans	timing	rnd

loops

[overview]

only the freshest ingredients

good to know:

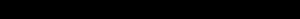
- there are three banks (a, b, c) of 16 pads (a1-a16, etc)
- you can record Live audio or load pre-recorded Clips
- there are three Live segments and three Clip segments
- each pad in each bank can be set to any segment

what the [loops] menu controls:

- loop points + looping semitone shifting
- syncing BPM to loop points loading samples
- speed, direction, rate slewing recording live input

general navigation:

K3: switch between global + local layers



- K1: alt encoder controls
- K2: alt K3 action
- El: navigate across



local layer: controls displayed pad

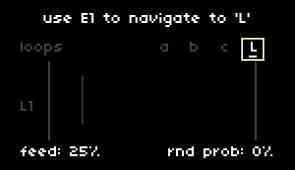


0005



LIVE: up to 32 seconds of live input recording

global layer controls:





K1 hold + E1: switch encoder params





K2: erase

encoder parameters:

- feedback: presence of previous material
- random: random recording probability
- mode: loop or 1-shot
- total duration: 8, 16, or 32 seconds

local layer controls:

use encoders to adjust loop points s: 1.3s | e: 3.8s E2: start E3: end (K2 hold + K3: toggle recording)





K1 hold: zoom waveform

- + E2 / E3: fine-tune adjust

loops



CLIP: up to 30 seconds of sample import

<u>load the same sample for</u> an entire bank:



load samples independent of bank:



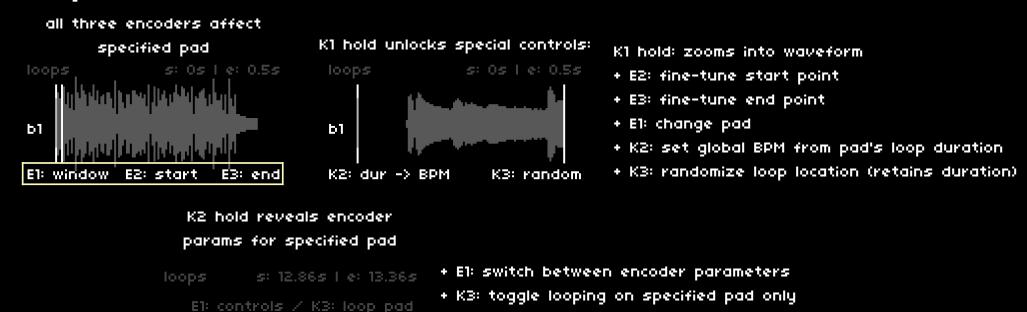
loops

[bank + pad controls]

global layer controls:



local layer controls:



+ K1 (when buffer is (lip): load sample into segment

rate: 1x

> E2: rate

rmp: 0.0s

E3: rate slew

E2: buff sel E3: s/t offset

loops filters euclid > levels delays arp pans timing rnd

levels

louder, softer, fade it in, fade it out, do it again

K3: switch between highlighted sections encoders: 1=a, 2=b, 3=c (one per bank)





overall level = pad level multiplied by the bank level
----encoders: change displayed pad's level
K1 hold + encoders: change bank's level
× useful for fading in a bank without





three envelope shapes: falling, rising, rise/fall optional cycling mode available
----encoders: adjust envelope for displayed pad
K1 hold + encoders: adjust envelope for all pads in the bank

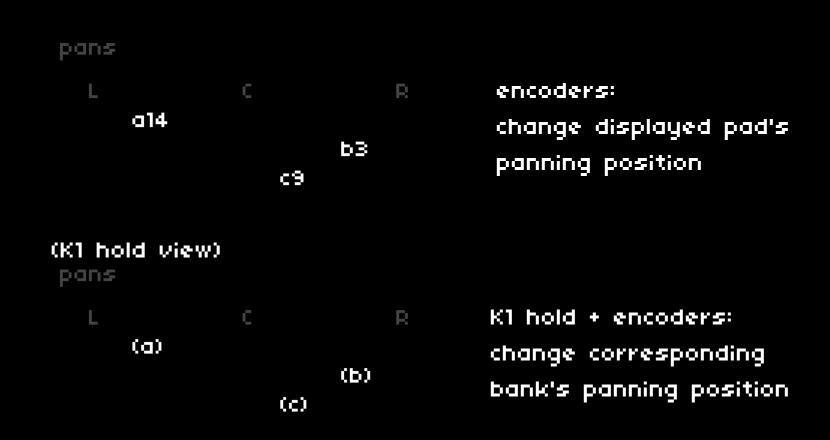


adjust duration of specified envelope
for rise/fall, specifies total duration (vs. single stage)
----encoders: adjust envelope duration for displayed pad
K1 hold + encoders: adjust envelope duration for
all pads in the bank

changing pad levels

loops filters euclid levels delays arp > pans timing rnd

Pans location, location



note: bank-wide changes are applied additively, where "two to the right" is uniformly added to every pad's current position.

loops > filters euclid levels delays arp pans timing rnd



K3: switch between parameters encoders: 1=a, 2=b, 3=c (one per bank) default controls change entire bank (vs. current pad)

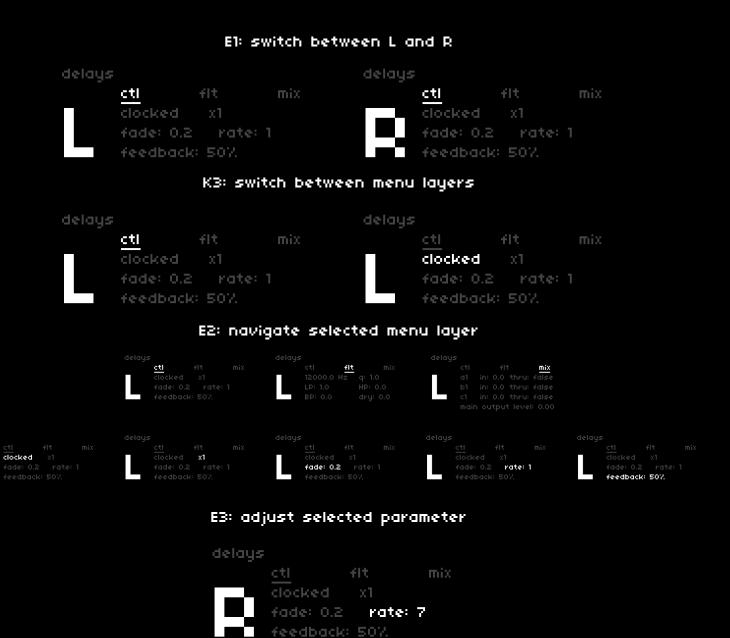
filters (a)II 1.49s 50.017. cont	(b) IIII. 0.78s 92.017. cont	(c) III 0.50s 99.61% jumpy	encoders: filter cutoff : LP : neutral : HP	filters (a) II 1.49s 50.017. cont	(b) IIII. 0.78s 92.017. cont	(c) III 0.50s 99.617. jumpy	encoders: slew duration (time it takes to go from one cutoff value to another)
filters (a) ll 1.49s 50.01% cont	(b) IIII. 0.78 <i>s</i> 92.017. cont	(c) III 0.50s 99.61% jumpy	encoders: q (controls peak resonance, higher is more resonant)	filters (a) II 1.49s 50.017. cont	(b) . 0.78s 92.01% cont	(c) III 0.50s 99.61% jumpy	encoders: slew behavior cont: slew to new cutoff jump: snap to new cutoff

(K1 hold v	iew)		
filters			
a10	b6	c1	129 15 - 1 - 1 - 1
II		III	K1 hold:
1.495	0.785	0.50s	toggle controls between
50.01%	92.01%	99.61%	entire bank and current pac
cont	cont	iumpu	

loops filters euclid levels > delays arp pans timing rnd

[navigation]

where the sauce meets the cheese





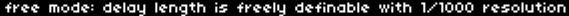
TIMEBASE

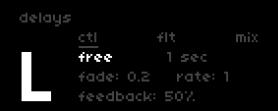
clocked mode: delay length is equal to x number of beats at current bpm





delay length can range from 16 beats to 1/4 beat (with 98 steps between)







delay length can range from 0 seconds to 30 seconds



fade time needs to be less than free time! hold K1 for fine-tune adjustments

RIETTE



(K1 hold = fine)

ctl fit mix
free 0.004 sec
fade: 0.001 rate: 0.25
feedback: 507.

playback rate can range from 1/4x to 24x with 1/100 resolution with short length + fade, rate affects aliasing depth

FEEDBACK



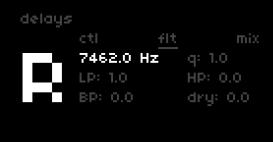


(K1 hold = jump)

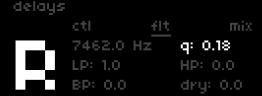


feedback amount can range from 0% to 100% hold K1 on feedback to jump (x>0 jumps to 0, x=0 jumps to 100) delays



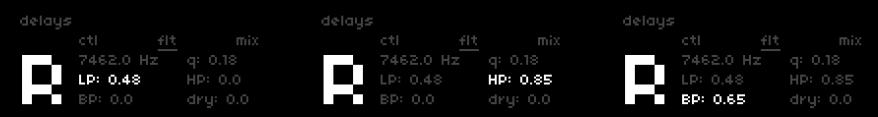


each delay line has a set of 3 linked filters with a single cutoff frequency control

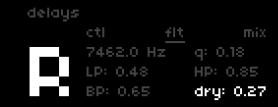


the q value determines the shape of the filter peak (0 = oscillating, 8 = gentle)

the presence of each filter in the mix can be adjusted to taste (0 = no presence, 1 = full presence)

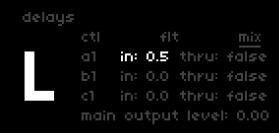


the dry signal can also be re-introduced

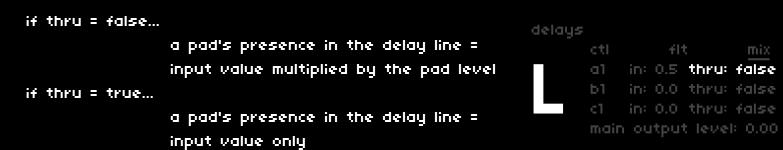


every pad can have its own delay input level

hold K1 to set the input level for all pads in the bank

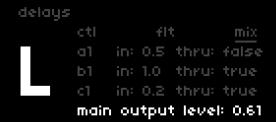






* so a triggered pad can be sent to the delay line without being heard in the main mix

(hold K1 to set thru for all pads in the bank)



each delay line has its own main output level

delays

linking

to control a parameter across both delay lines at the same time, link them together

select a parameter



hold K1 and press K3



changes to that parameter on either delay will map to the other



loops filters euclid levels delays arp pans > timing rnd



peaceful co-habitation of order and chaos

El: switch between each bank pattern, then between each arc pattern



E2: scroll through the selected pattern's parameters



E3: adjust the selected parameter



[pad pattern recording]

there are two different pad pattern recording modes:



loose:

- completely un-clocked
- starts when a pad is pressed

timing		Брі	m: 3	92		3.2
P1	P2	ΡЗ	/	A1	A2	ΑЗ
rec	mode			dis	tro i	2
shu	ffle	pat		(no	pat	9
P1 s	ets	pbw,	₽	no		

distro:

- pattern length is synced to clock
- starts on "1" beat

loose patterns can set the session bpm



hold K1 and turn E2 on distro to adjust pattern length in bars





press K3 on 'rec mode' to start recording:

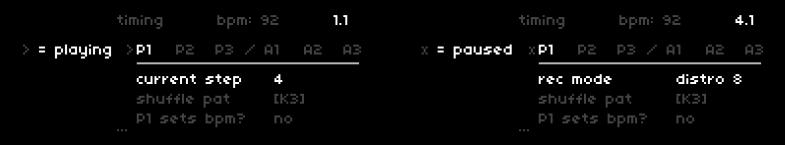




<--- since distro recording starts on "1" beat, a countdown is displayed

[pad pattern playback]

hold K1 to pause a playing pattern, or play a paused pattern



hold K1 and press K3 to clear a pattern

adjust pattern start and end points



note: if in distro mode, pattern will still reset to 'pat start' after 'distro x' bars

press K3 on 'shuffle pat' to jumble a recorded pattern



pattern quantization:

- navigate to PARAMS > grid/arc pattern params
- here, you can set quantization state for each pattern
- you can also set 'pat launch quant' which determines whether a distro pattern will re-launch on the next bar or the next beat

[random patterns]

press K3 on 'rand pat' to create a random pattern (best in distro mode)



note: if in distro mode, random patterns are guaranteed to be at least 'distro x' bars in length

use E3 CCW to select a random pitching mode



random pitching options:

- 'keep rates' (default): retains each pad's current rate
- 'full range': 0.125x -> 4x (with reverse)
- 'hi rates': 2x + 4x (with reverse)
- 'mid rates': 0.5x -> 2x (with reverse)
- 'lo rates': 0.125x -> 0.5x (with reverse)

change random pattern style and note lengths in PARAMS > grid/arc pattern params > random patterns

	rar	ndom patte	rns
rand	pat	1 style	rand
rand	pat	2 style	h.snake
rand	pat	3 style	vertical
rand	pat	1 note leng	gth 1/16
rand	pat	2 note len	gth rand

style:

- 'rand': pads are selected at random
- all other options are various snake movements across the 16 pads

note length:

- rand: the interval between pad movements will be randomly generated (1/16,1/8,1/4,1/2,1)
- all other options are uniformly clocked

[arc patterns]

note: if no arc is connected, this section will not render



loops filters > euclid levels delays arp pans timing rnd



quick + easy rhythm generation

E1: navigate vertically

	euc	lid			8	auci	id		
	Ck.				default is every	Œ,	n)		
E2 = number of pulses	0	8	 0	0	pulse will re-trigger	0	8	 0	0
E3 = time interval	0	8	 0	0				0	0
	0	8	 0	0		0	8	 0	0

	euclid	b mode: single	2	euclid	b mode: span		E2 = mode
hold K1 to adjust	(k , n)	b rate: 1/8		(k , n)	b rate: 1/16		- 'single' re-triggers current
	0 8		0 0	0 8		0 0	- 'span' travels across pads
detaalt values	4 11	ll. . ll.	0 0	4 11	l. . lll.	0 0	E3 = rate
	0 8		0 0	0 8		0 0	- sets speed (1/16 to 1 bar)

K3: jump columns

euclid			hold K1 to add	euclid	b auto rot:	2
(k , n)	r +/-	E2 = rotate pattern	auto advancement	(k,n)	b auto off:	-3 k +\-
0 8	0 0	E3 = offset pad ID	F5			0 0
4 11	4 -2			4 11		10 -7
0 8	0 0		E3 = auto-offset	0 8		0 0

K1 hold + K2: reset all lanes K1 hold + K3: reset selected

loops filters euclid levels delays > arp pans timing rnd

arp

in-the-moment sequencing with grid + MIDI

E1: change banks / E2: navigate vertically / E3: adjust selected parameter / K3: hold/release current arp



(MIDI: when a note is received on a different channel, view will automatically switch to the corresponding bank)



(K1 hold: set rate for current pad)

see PARAMS > patterns + arps > arps (grid only):

- we can adjust the 'hold style' of each arp
- 'last pressed' is default behavior
- 'additive' adds each pressed pad to the arp, similar to a sequencer

retrig: when an arp is 'additive', this
parameter determines whether sequential
repeated grid entries re-trigger or hold the step



loops filters euclid levels delays arp pans timing > rnd

rnd

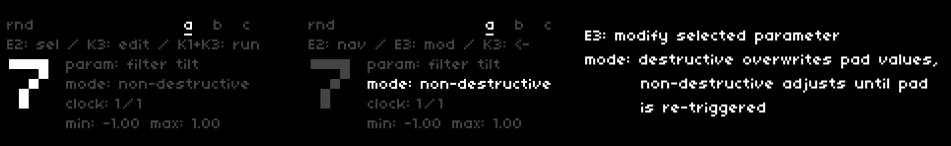
the melt stage: random value generators for creative chaos

El: change banks

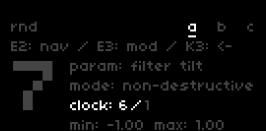
K3: switch between generators and parameters



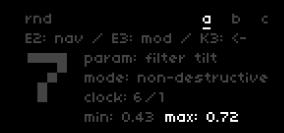
E2: select generator or navigate parameters











K1 hold + K3: start/stop generator



current library: pan, rate, rate slew, delay send, loop, semitone offset, filter tilt nb. destructive filter tilt can cause zippering if changing pads rapidly (best as non-destructive)

> midi + 0P-2

midi + OP-Z

[setup]

all pads can be called via MIDI notes
from an attached keyboard, sequencer, or OP-Z

navigate to PARAMS	enable MIDI cont	rol	specify port			
delays >	PARAMETERS / MIDI no	te/OP-Z	(see PARAMS) DEVICES	IOIM <		
OSC setup > MIDI note/OP-Z setup >	enable MIDI control?	yes	enable MIDI control? MIDI control device	yes port 3		
MIDI encoder setup >	MIDI control device enable MIDI echo?	port 1 no	enable MIDI echo? channel	no		
	channel		bank (a) pad channel:	1		

a succe:	ssful coni	nection:	an unsuccessful connection:					
cheat code	s	(AKM320)	cheat codes	(no midi	device!)			
> loops levels pans	filters delays timing	euclid arp rnd	levels (filters delays timing	euclid arp rnd			

defaults:

- bank (a): channel 1
- bank (b): channel 2
- bank (c): channel 3:
- pads start at note 53 (chromatic)
 - eg. F3 = pad 1, D4 = pad 11
- edit in PARARMS > MIDI note/OP-Z setup

if using an OP-2, you can control + display pad values via

the OP-Z's on-board encoders:

- PARAMS > MIDI note/OP-2 setup > enable MIDI echo?: yes
- enc 1: start point
- enc 2: end point
- enc 3: filter cutoff
- enc 4: level

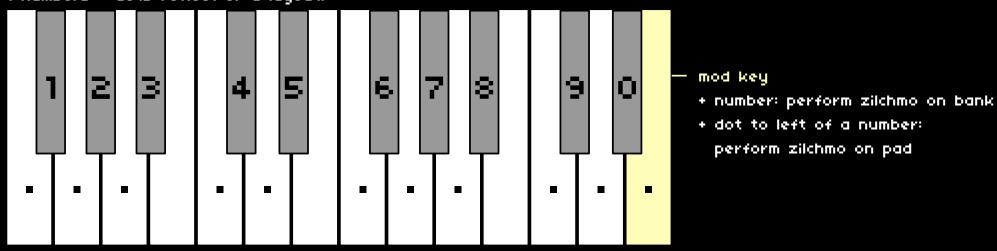
nb. this will affect synth parameters on the OP-Z

mi<u>di + 0P-2</u>

[overview]

special mod key + MIDI note combos perform zilchmos, globally and locally

(numbers + dots reflect OP-2 layout)



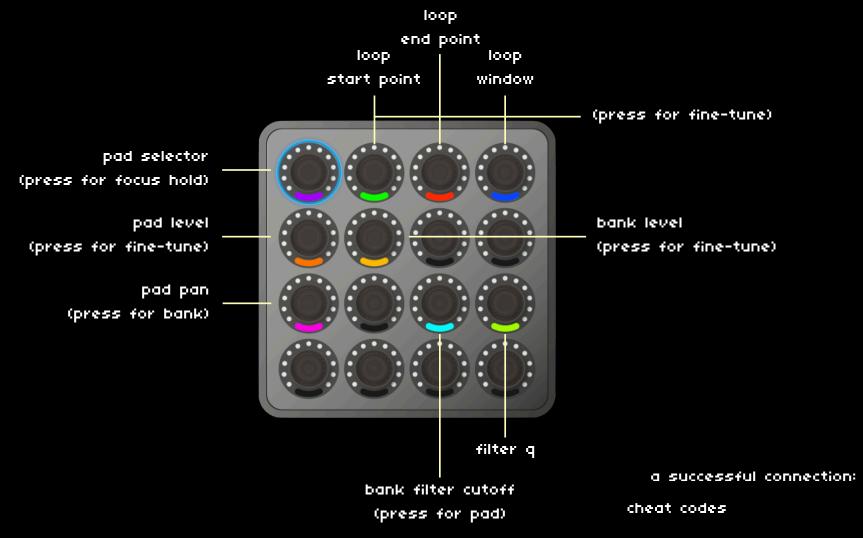
- 1: halve playback rate
- 2: reverse playback rate
- 3: double playback rate
- 4: toggle pad looping on/off
- 5: toggle recording on/off (or trigger recording if in 1-shot mode)
- 6: random pad start point
- 7: random pad window (distance between start and end points remains constant)
- 8: random pad end point
- 9: auto-chop to 1/16th total buffer length
- 0: clear the live audio between the recording buffer's start/end points

> Midi Fighter Twister

midi fighter twister

[setup]

a special template for Midi Fighter Twister



left side-buttons 1,2,3 correspond to banks a,b,c purple: a, pink: b, blue: c > loops + levels c pans 1

filters euclid delays arp timing rnd (MFT)

> osc

0.40



all pads can be called via OSC commands, in addition to meta controls:

control command	arguments
-----------------	-----------

select a pad in a bank	/pad_sel_X 9	X: bank, 9: pad
set rate of current pad	/pad_rate_X 9	X: bank, 9: rate
reverse current pad	/pad_rev_X	X: bank
set rate for entire bank	/bank_rate_X 9	X: bank, 9: rate
reverse entire bank	/bank_rev_X	X: bank
random rates for entire bank	/bank_rand_rate_X	X: bank
auto-chop bank (even slices)	∕chop_X	X: bank
set length of all loops = 1/16	/sixteenths_X	X: bank
randomize all loop points	/rand_loop_points_X	X: bank
random parameters + pattern	/randomize_this_bank_X	X: bank

to connect norns to an OSC source, enter the norns IP in your OSC client

STATUS: activated NETWORK: PSH 1 IP: 192.168.1.100

SIGNAL: -50dBm

OFF HOTSPOT CONNECT ADD DEL

a successful connection should auto-fill PARAMS > OSC setup:

PARAMETERS / OSC setup

source OSC IP 192.168.1.117 OSC port 59171

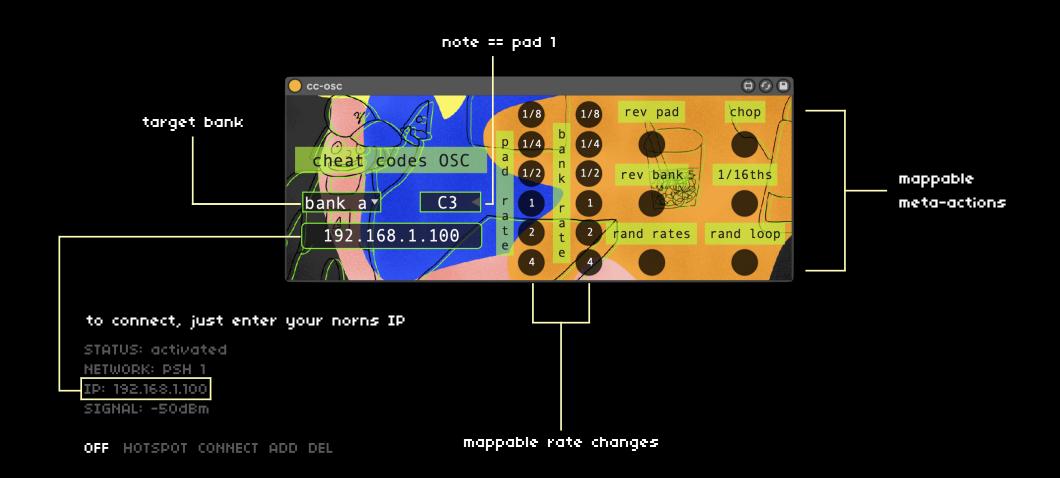
refresh OSC [K3]

> m41

max for live

[setup]

cheat codes can be wirelessly controlled from Ableton Live via a computer on the same network:



use multiples to control each bank from different MIDI tracks in Live!

very fun to use while clock source is set to Link, for total synced control!

> more: IIIIIII.co/cheat-codes-2