DuoPoly

Quick Operation Guide

Version 2.16

Cornfield Electronics

main>

r	**right panel**
l	**left panel**
p	**select preset** **(0, 1, 2, 3, 4)**
v	**set volume** **(0 to 255)**
w	**select waveform** **(0, 1, 2)**
/	**latch oscillator frequencies (geometric)**
-	**latch oscillator frequencies (arithmetic)**
u	**unlatch oscillator frequencies**
[	**start sequencers**
]	**stop sequencers**
|	**pause/resume sequencers**
#	**toggle mute status** *(overrides unmute at reset; use in presets)*
.	**mute**
<	**unmute**
!	**reset**
?	**display info**
ESC *or* **`**	**exit sketch**

main

left button		**right button**	
press	**left panel**	*press*	**right panel**
tap		*tap*	
tap-tap	**exit sketch**	*tap-tap*	

top	volume
bot	

right> *or* left>

d	**detune oscillator (-128 to 127,** *total range is a quarter tone* **)**
e	**effects panel**
E	**envelope panel**
f	**set oscillator frequency (20.0 to 20000.0)**
g	**set glide speed (0 to 255, 0 = off)**
k	**play console's virtual keyboard**
S	**program a sequence**
t	**set sequencer tempo (15.0 to 20000.0)**
T	**tremolo panel**
V	**vibrato panel**
v	**set volume (0 to 255)**
w	**select waveform (0, 1, 2)**
* *or* /	**latch frequency as a ratio**
+ *or* -	**latch frequency as a difference**
[	**start sequencer**
]	**stop sequencer**
|	**pause/resume sequencer**
.	**mute**
<	**unmute**
!	**reset**
?	**display info**
ESC *or* `	**return to main panel**
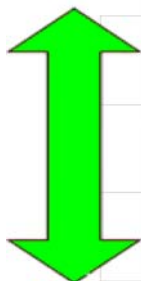
(continued ...)

right *or* left

	left button			**right button**	
press	**scroll pots up**		*press*	**scroll pots down**	
tap	**- 1 octave**		*tap*	**+ 1 octave**	
tap-tap	**return to main panel**		*tap-tap*	**run key menu once**	
tap-press			*tap-press*	**program a sequence**	

volume

detune

glide

V	T			]	.
E	w	e	t	[	<	!
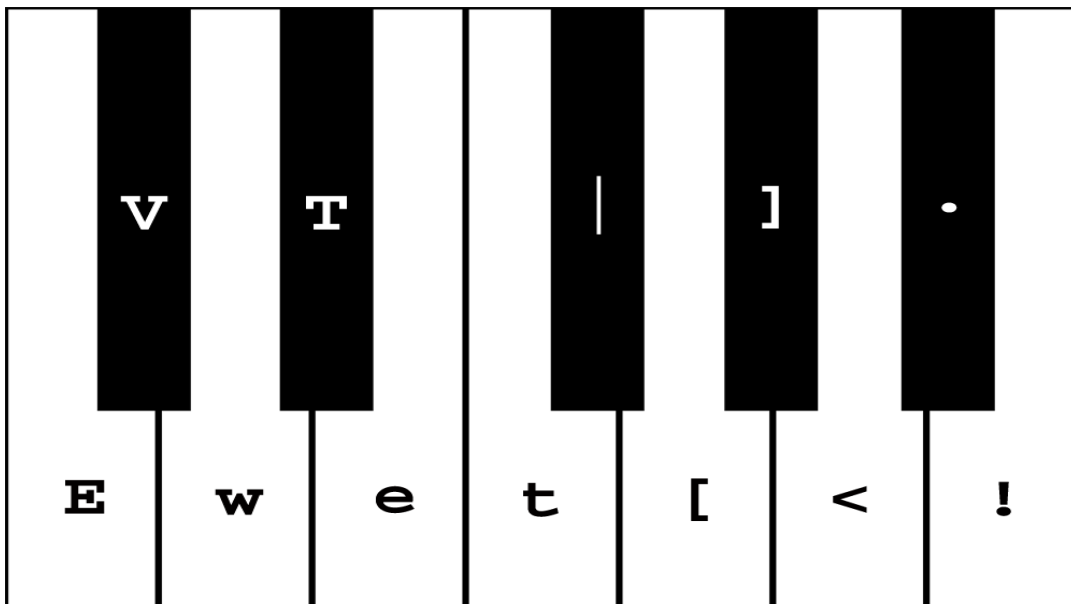
sqnc>

SPACE *or* **.**	**++duration**
z	**C**
s	**C#**
x	**D**
d	**D#**
c	**E**
v	**F**
g	**F#**
b	**G**
h	**G#**
n	**A**
j	**A#**
m	**B**
,	**high C**
0 *thru* **8**	**select octave 0 thru 8**
?	**display current octave**
ESC *or* **`**	**commit sequence**

left button		**right button**	
press		*press*	**++duration**
tap	**- 1 octave**	*tap*	**+ 1 octave**
tap-tap	**commit sequence**	*tap-tap*	

envelope>

a	**set attack time (0 to 255)**
d	**set decay time (0 to 255)**
r	**set release time (0 to 255, 0 = hold)**
s	**set sustain level (0 to 255)**
~	**set legato retriggering**
'	**set staccato retriggering**
.	**mute**
<	**unmute**
!	**reset**
?	**display envelope state**
ESC *or* **`**	**exit emvelope panel**

envelope

left button			right button	
press	**scroll pots up**		*press*	**scroll pots down**
tap	**-1 octave**		*tap*	**+1 octave**
tap-tap	**exit envelope panel**		*tap-tap*	**run key menu once**

attack

decay

sustain

release

a   d   s   r   ~   <   !
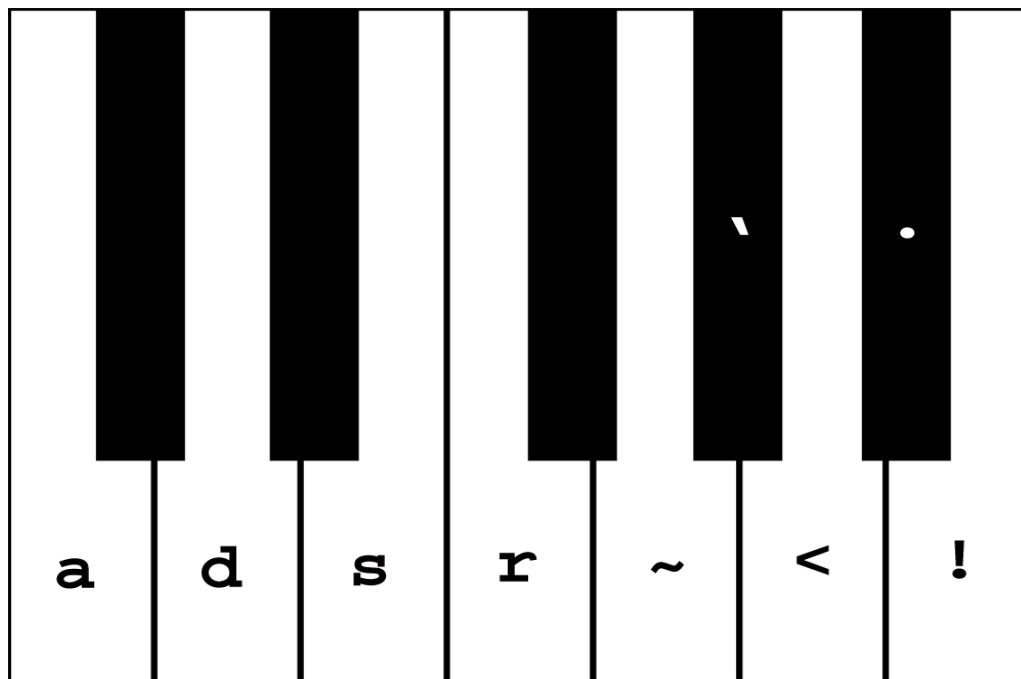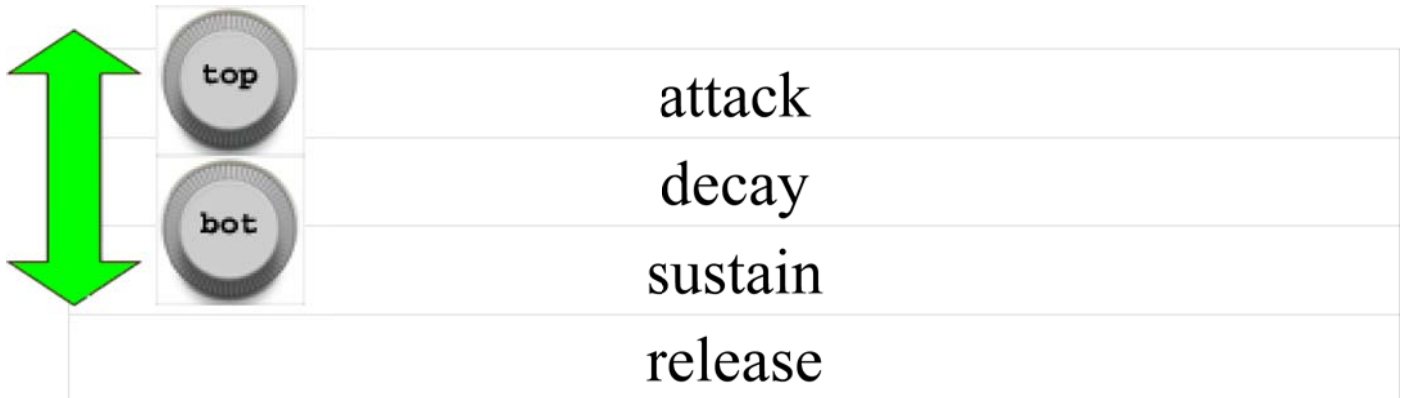
tremolo>

f	**set tremolo frequency (0.01 to 20.0)**
d	**set tremolo depth (0.0 to 1.0)**
t	**set trigger count (# half-cycles to traverse: 0-255)**
~	**set legato retriggering**
'	**set staccato retriggering**
+	**trigger starts af "softest" level, and increases**
-	**trigger starts at "loudest" level, and decreases**
.	**mute**
<	**unmute**
!	**reset**
?	**display tremolo state**
ESC *or* **`**	**exit tremolo panel**

(continued ...)
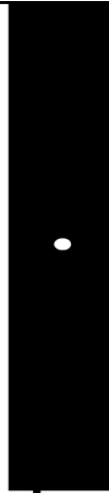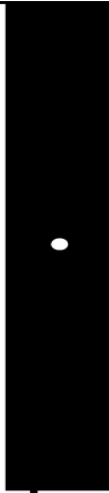
tremolo

left button			right button		
press			*press*		
tap	**-1 octave**		*tap*	**+1 octave**	
tap-tap	**exit tremolo panel**		*tap-tap*	**run key menu once**	

top	frequency
bot	depth
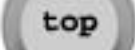
vibrato>

f	**set vibrato frequency** **(0.01 to 20.0)**
d	**set vibrato depth** **(0.0 to 1.0)**
t	**set fade time (in 1/8ths of sec: 0-255)**
~	**set legato retriggering**
'	**set staccato retriggering**
+	**set positive polarity ("fade in")**
-	**set negative polarity ("fade out")**
.	**mute**
<	**unmute**
!	**reset**
?	**display vibrato state**
ESC *or* **`**	**exit vibrato panel**

vibrato

	left button			right button
press			*press*	
tap	**-1 octave**		*tap*	**+1 octave**
tap-tap	**exit vibrato panel**		*tap-tap*	**run key menu once**

top	frequency
bot	depth

effects>

b	**select bsf effect**
l	**select lpf effect**
0 *thru* **8**	**select effect by number** **(0 - bsf; 1 - lpf)**
.	**mute all effects**
<	**unmute all effects**
!	**reset all effects**
?	**list effects**
ESC *or* **`**	**exit effects panel**

left button		right button	
press		*press*	
tap		*tap*	
tap-tap	**exit effects panel**	*tap-tap*	
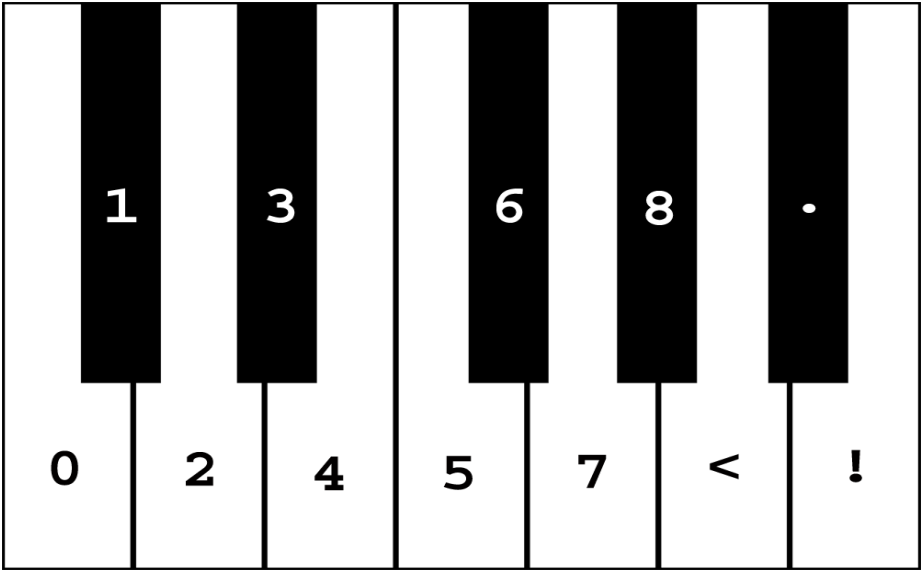
bsf> *(Binary Shift Filter)*

c	**set number of bits to clip (0-7)**
s	**set number of bits to shift (0-7)**
+	**normal filter output**
-	**complement filter output**
.	**mute**
<	**unmute**
!	**reset**
?	**display filter state**
ESC *or* **`**	**exit filter panel**

bsf

press		press	
tap	**-1 octave**	tap	**+1 octave**
tap-tap	**exit filter panel**	tap-tap	**run key menu once**

top	shift
bot	clip

s   c   +   -   <   !

lpf> *(Low-Pass Filter)*

c	**set cutoff freq level (parts per 255: 0-255)**
.	**mute**
<	**unmute**
!	**reset**
?	**display filter state**
ESC *or* **`**	**exit filter panel**

(continued ...)

lpf

left button		right button	
press		*press*	
tap	**-1 octave**	*tap*	**+1 octave**
tap-tap	**exit filter panel**	*tap-tap*	**run key menu once**

top	cutoff
bot	
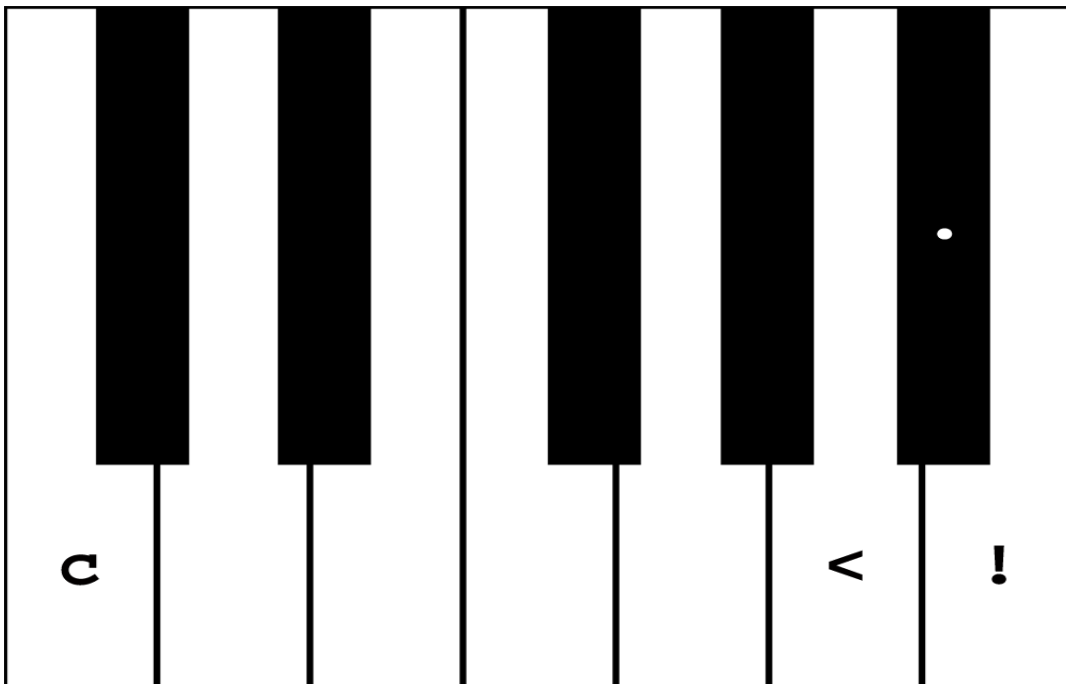
preset>

0 *thru* **9**	**select preset by number (0, 1, 2, 3, 4)**
?	**list presets**
ESC *or* **`**	**abort preset selection**

left button		**right button**
press		*press*
tap		*tap*
tap-tap	**abort preset selection**	*tap-tap*
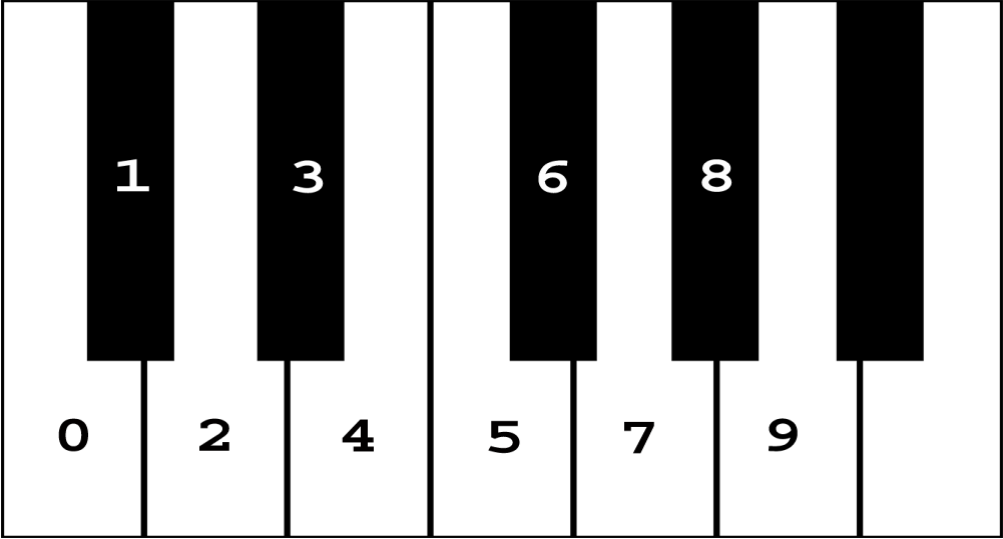
waveform>

0 *thru* **9**   **select waveform by number (0, 1, or 2)**
?   **list waveforms**
ESC *or* **`**   **abort waveform selection**

left button		right button
press		*press*
tap		*tap*
tap-tap	**abort waveform selection**	*tap-tap*
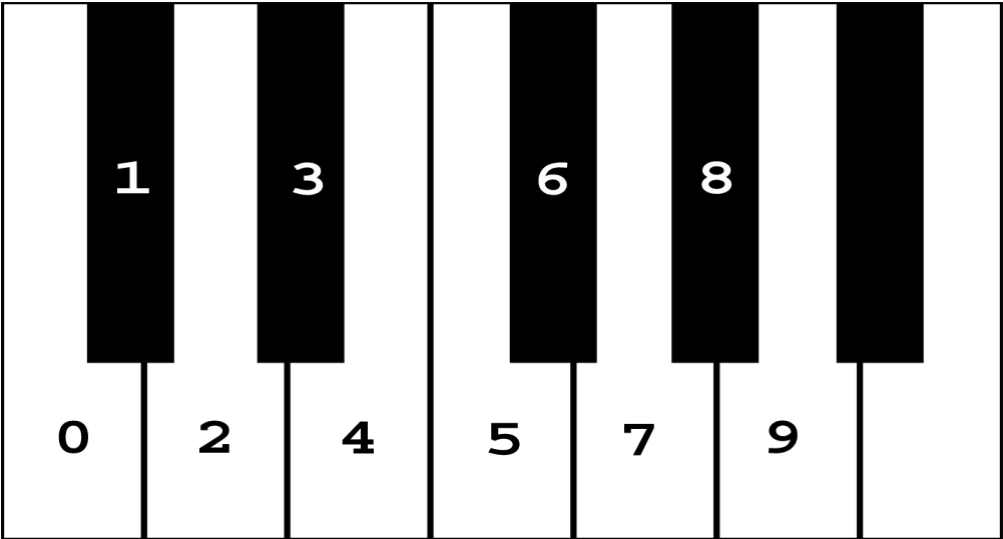
(numeric input)

0 *thru* **9**	**decimal digit**
-	**minus sign**
.	**decimal point**
CR *or* **/**	**commit input**
ESC *or* **`**	**abort input**

left button		**right button**	
press		*press*	**commit input**
tap		*tap*	**commit input**
tap-tap	**abort input**	*tap-tap*	
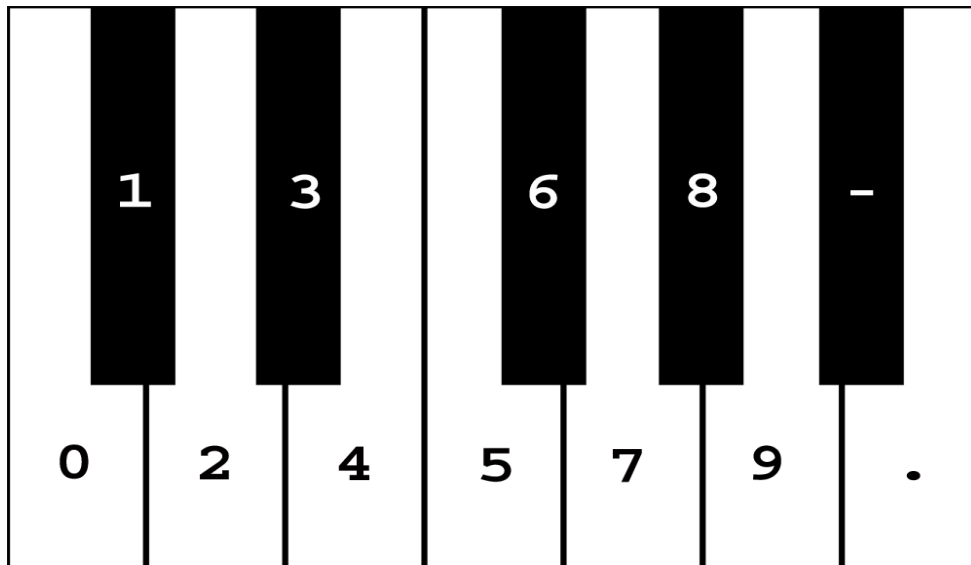
keybrd>

z	**C**
s	**C#**
x	**D**
d	**D#**
c	**E**
v	**F**
g	**F#**
b	**G**
h	**G#**
n	**A**
j	**A#**
m	**B**
,	**high C**
0 *thru* **8**	**select octave 0 thru 8**
?	**display current octave**
ESC *or* **`**	**exit virtual keyboard**

left button		right button	
press		*press*	
tap	**- 1 octave**	*tap*	**+ 1 octave**
tap-tap	**exit virtual keyboard**	*tap-tap*	