

{brother}

Brother

version 1.3

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Brother

Brother is a polyphonic cleaner brother of shapelysynth, which comes with 4 preset waveforms. It is both capable of running on its own with background audio and core MIDI or as a slave to shapelysynth. Brother comes with a kind of quirky sequencer loading tweets and converts them into sound, endless source of compositions. Capable of exporting to send with email, upload to soundcloud and MAPI audio copy.

+++ Polyphonic.

+++ Sine, Square, Triangle and Saw.

+++ Double Delay.

+++ Background Audio.

+++ Core MIDI.

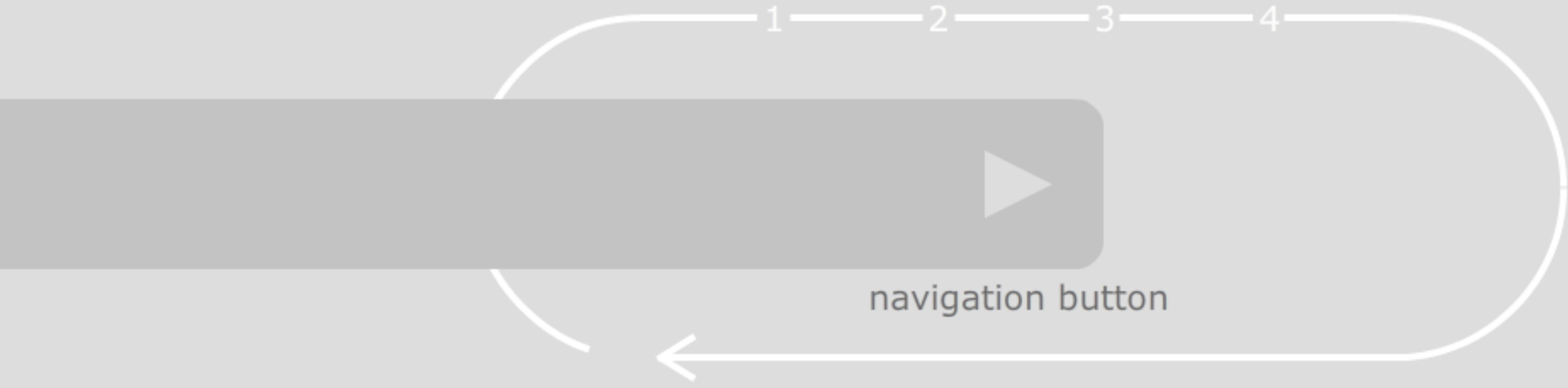
+++ Virtual MIDI.

+++ Email.

+++ Soundcloud.

+++ MAPI Audio Copy.

+++ Shapelysynth slave mode (Please make sure they both run on the same buffer size and midi channel. Recommended buffer size is 512 tested on iPad 2 and iPhone 4s.).



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3

4

navigation button

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Screen 1 Oscillator



sinusoid



square



triangle



saw

Tempo

BPM|15 controls the overall tempo and effects all tempo related controls, such as delay, the sequencer and the filter lfo.

Knobs



a: attack
r: release
tt: tremolo time
td: tremolo depth

v: volume (gain)
d1: delay 1
d2: delay 2

Piano

25 keys is available on screen with +/- controlling the octave. Brother is also compatible with midi both virtual and usb/network.

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Screen 2 Sequencer

The brother sequencer loads tweets from twitter and converts these into music. All tweets are automatically saved and can be skipped through by pressing the bubble left or right side. Left decreasing and right increasing the index. Pressing the bird loads the latest tweet in your feed.



|bo:3| sets the base octave of the tweet note conversion algorithm. Depending on the tweet this has different effects, sometimes more than others. |_| makes the algorithm treat blank spaces as silence and |note| treats blank spaces as just another note.

Other



export



brother sound engine



shapesynth slave mode

Screen 3

RC Bandpass Filter

Brother has two resistor capacitor filters, one low-pass and one high-pass, in sequence to create a bandpass filter.

Knobs



fHz: filter cut off frequency

fa: filter amount, mix between signal and output

LFOa: low frequency oscillator amount

LFO

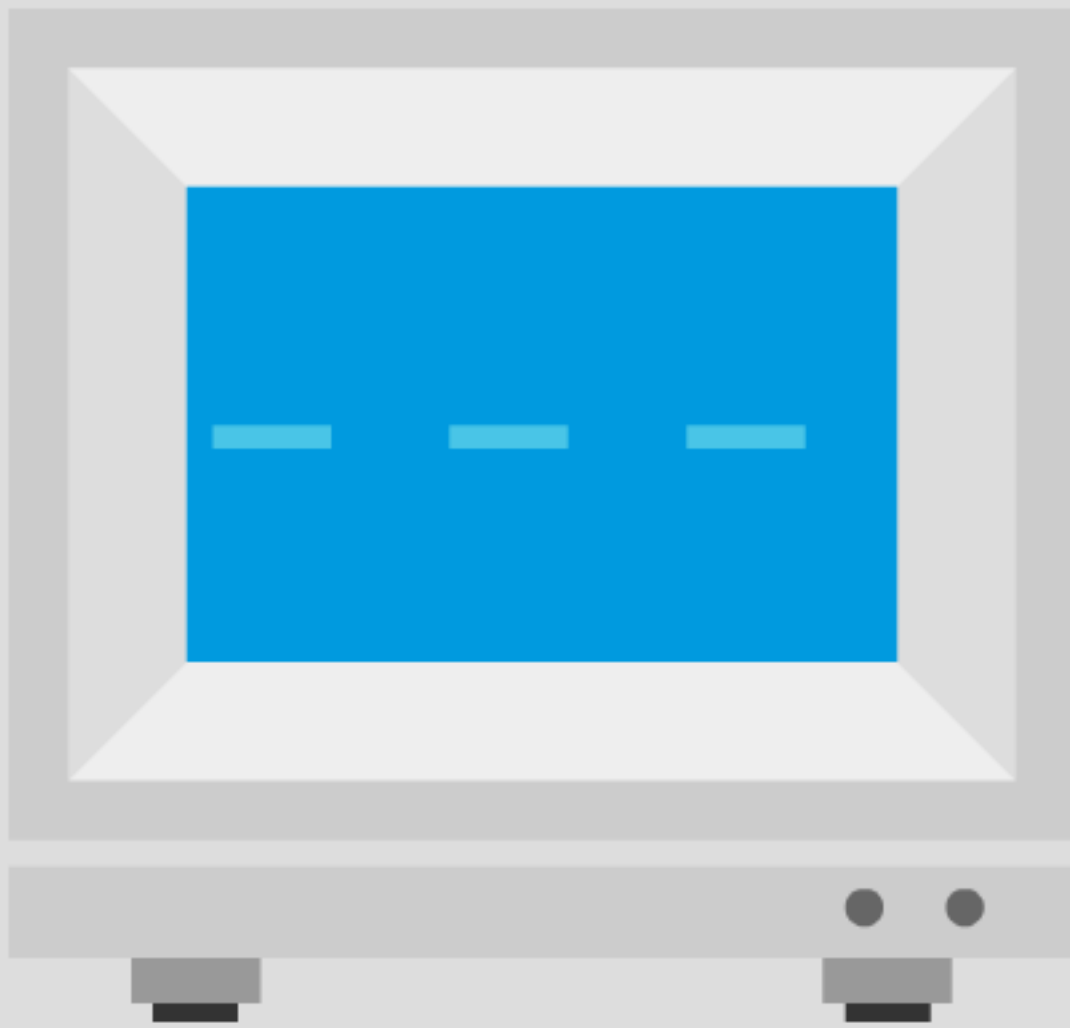
off, 1/1, 1/2, 1/3, 1/4, 1/5, 1/6, 1/8, 1/12, 1/16 and 1/32 sets the time signature of the low frequency oscillator.

Screen 4

Oscilloscope

The oscilloscope is projected into a 3d space. Touching on the screen changes the location of the virtual camera, where the touch x position affects the camera x position and touch y position affects the camera z position.

Modes



normal



3d red/cyan color anaglyph

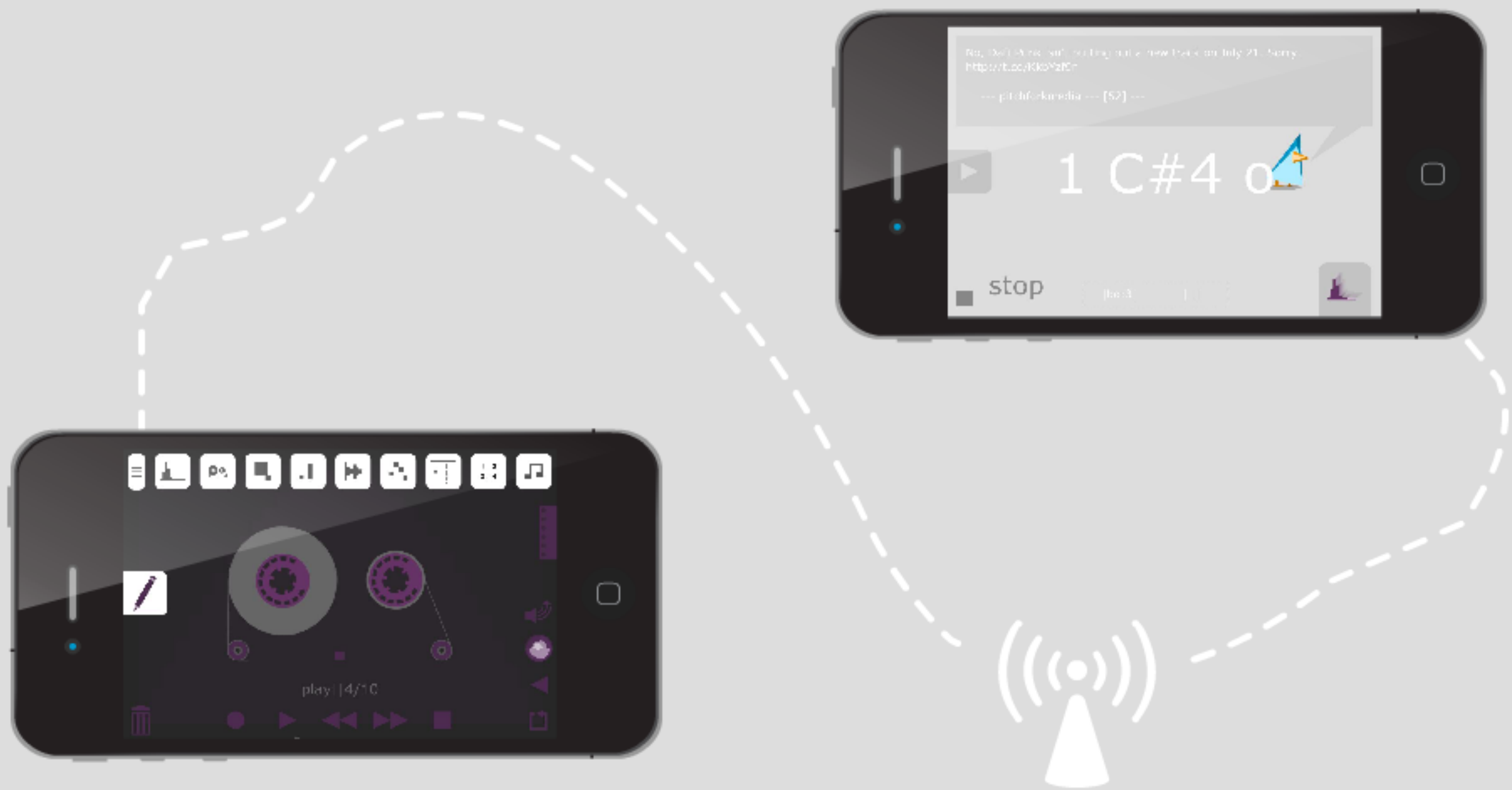


Core MIDI

Core midi can also be used to control brother, where virtual midi, camera connection kit or network midi can be used.

Shapesynth Slave Mode

Stream audio buffers from brother to shapesynth. Works between devices on the same network. Shapesynth and brother will find each other using bonjour.



In order to work both applications must be set to have the same buffer size. Recommended size is 512, tested between iPad 2 and iPhone 4s.