SEGMENT
The Team

Andre

Michal

Amir

Martin

www.segmentsynth.com
Segment Synthesis

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Segment Synthesis

Additive

Segment

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Segment Synthesis
Frequency Modulation

\[ \sin(x + \sin(4x)) \]

\[ \sin(x \cdot \sin(4x)) \]
LFO Speed

[Diagram showing various LFO speed options: 1/1, 1/2, 1/4, 1/8, 0, 1/3, 1/6, 1/16]
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Encoders and Displays
Segments
Drift

VOLUME

DRIFT

www.segmentsynth.com
Drift

VOLUME  DRIFT

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Drift Parameter

- Amount
- Polling Speed
- Drift Speed
Hardware

- ARM Cortex M4 for audio
- ARM Cortex M4 encoders and displays
- ARM Cortex M0 for buttons and RGB LEDs
- 24bit 48kHz DAC
Software

• Bare-metal
• libopencm3 (LGPL v3)
• 32bit float processing
• 10bit internal controls resolution
• OSC
• Zero buffer

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Connectivity

- USB Device
- 2x USB Host
- 2x Balanced Line Output, Headphones Output
- 4x Control Voltage Input
- 2x Control Voltage Output
- UART I/O on Minijack
- MIDI Input on Minijack
As in speech

- Open Source (GPLv3)
- Open Hardware (TAPR)
- All sources and hardware documentation will be released upon funding
- Indiegogo campaign starts May 2015
SEGMENT

- www.twitter.com/SegmentSynth
- www.facebook.com/segmentsynthesizer
- www.segmentsynth.com