Cornucopia for HALion 6

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Installation

Decompress the RAR-archive you downloaded.

You will then find a folder named "Cornucopia_HALion_6" containing 3 files:

* "Cornucopia Readme.pdf"

* "Cornucopia_HALion_6.library" and

* "Patchpool_001_Cornucopia.vstsound" containing all the assets for this sound library (samples, wavetables, Macro pages, images).

Place the main folder "Cornucopia_HALion_6" anywhere on your system (preferably on a fast external drive). Open the HALion 6 Library Manager and double click on the file "Patchpool_001_Cornucopia.vstsound", the library will get registered and is now ready to use. If you want to move the library to a different location, simply press on the "Move" button in the library manager and select a new location.

To see all presets from Cornucopia in the Media Bay, click on Load -> Media Bay -> Show Content Set -> click on the Cornucopia icon, or enter "Cornucopia" in the text search field in the Media Bay, all 103 presets will be displayed in one list.

If you program a new wavetable patch from scratch and want to use one of the 155 wavetables included in this library, just click on the arrow at the upper right to access the wavetables:
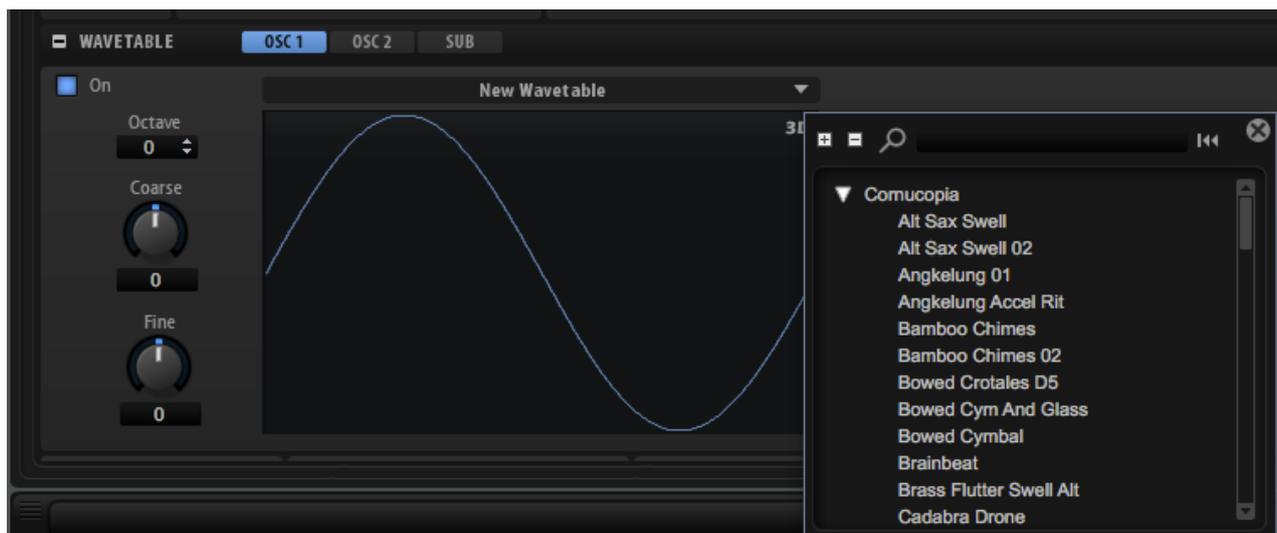
License agreement and terms of usage

This license agreement is between you (the licensee) and me (Simon Stockhausen).
1.) The licensee must not distribute or share the patches, wavetables, samples and background images from *Cornucopia*, resample them, copy or otherwise replicate the assets of this sound library in any commercial, free or otherwise product. That includes sample and audio libraries and patches for samplers, sample based synthesizers or wavetable synthesizers. The licensee can of course create such derivates for his/her own musical work as long as these derivates are only distributed in the context of the licensee's musical- or sound design-work.

2.) The license to the sound library *Cornucopia* may not be given away or sold (NFR).

Description and Content:

Cornucopia for HALion 6 provides a wealth of predominantly wavetable-based patches, all wavetables were be produced exclusively for this sound library by re-synthesizing dozens of samples from various acoustic instruments /string instruments, woodwinds, brass), vocals, percussion and electronic textures.
The sounds focus on warm and moving pads, dark and epic drones, digital hybrids, animated sequences, profound bass and pluck sounds, cinematic textures and soundscapes, crispy mallets and obscure sound effects. Some patches also layer the wavetable synth with Halion's granular and/or sampling engine, some patches also make use of Halion's analog synth, a few patches only use the granular and/or sampling oscillators. All presets have a designed Macro interface with a background image, more complex modulation routings are sometimes also assigned to the eight Quick Controls at the bottom of the main interface and the modulation wheel, quite a few presets also make use of aftertouch.
The wav-samples in Cornucopia are a mixture of field recordings, soprano sax tones and phrases, a huge gong recorded open air in a garden, tubular chimes (also recorded in that garden), electronic soundscapes, multi-sampled synth sounds and experimental electronic textures. All wavetables are embedded in the preset files, yet an additional folder with all wavetables used in Cornucopia (plus some extra ones) is included in the download folder, so that the user can easily create new patches using these tables.

Specifications:

- 103 tagged presets
- 155 wavetables (153.1 MB, also available in a separate folder for easy access, not all wavetables were used in the actual presets).
- 769.9 MB of original samples (67 wavs / 48 Khz / 24 Bit / stereo)
- Library size in total (with all assets): 1.03 GB

All audio demos for this library are here

All video demos, some also explaining patches in detail, can be found in this youtube playlist.

CPU

Some of the patches layering different synthesis forms and wavetable patches with several unison voices and oscillators can be somewhat CPU-hungry when playing many voices at once.

HALion provides an economy mode "Osc ECO Mode" for the synth module which you can find in the "Options"-tab:
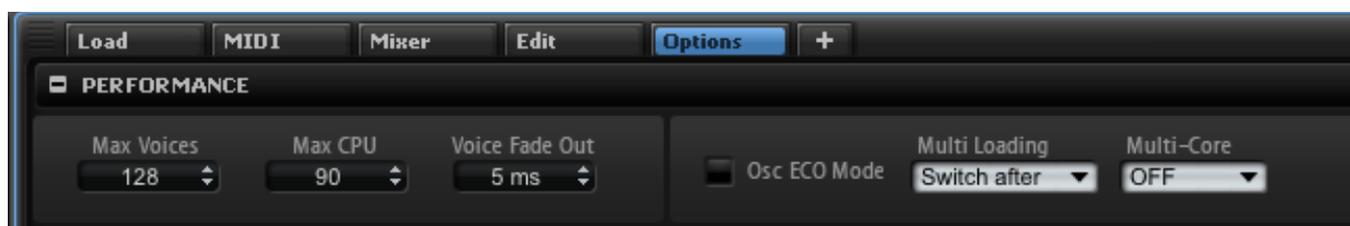
Furthermore there are other ways to decrease the CPU load, e.g. by shortening the release phase (all patches have a control assigned to release time), by increasing the sample buffer in your host and by reducing the polyphony in HALion's voice manager - either Layer or Program-based.

Patchlist

Below you will find a list with all patches including more or less extensive descriptions, playing tips and comments about the Macro- and Quick Control-assignments for each patch. All the Macros and QCs are clearly labelled, the not-so-obvious Macro assignments also have tooltips, just hover over a control with the mouse to read those tooltips.

"AT" means Aftertouch, "MW" means Mod-wheel, "VEL" means velocity, L1/2 means layer 1/2, "QC" means Quick Control and "PB" means Pitch Bend.

"C3" is the middle C on the piano. If your Midi keyboard does not support Aftertouch, you can automate "C-Press" in your DAW.

Many Quick Controls are programmed in "Absolute Mode", so if you apply changes to a certain parameter, make sure it is not assigned to a QC or Controller (like the Mod-wheel) in absolute mode, otherwise your changes will get overwritten once you touch or automate a QC. When QCs are used as modulation sources in the modulation matrix, the assignments are of course relative.

You can easily remove QC assignments by right clicking on a knob or slider and choosing "Forget Quick Control".
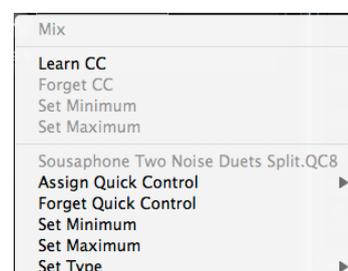
When you spot some blue keys in the HALion interface keyboard key-switches, the keys act as key-switches and are assigned to different trigger pads which I used in one of the arp/sequencer patches for changing between different sequences in the FlexPhraser.

Patch Name	HALion Categories	Description
Alto Sax Swell Pad	Woodwinds / Saxophone	Two re-synthesized/wave-tabled alto sax swells in OSC1/2 of the WT synth. MW adds tempo-synced formant modulation (via filter envelope), QC4 adds a tempo-synced filter envelope. Each OSC has dedicated controls for WT speed, formant shift, amount of unison voices, unison detune and pan position. A band reject filter on program level can be dialed in with the center Macro. More controls are available for chorus/delay/reverb FX, QC3 controls amount of vibrato (pitch/amplitude) via AT, the Glide-switch enables tempo-synced glide (1/16).
Ambient SinceQuencer	Musical FX / Beeps&Blips -> Sequencer	Two layered synth sequences composing a nice ambient texture, each sequence has it's dedicated Macro for volume/delay/chorus, Seq 2 also has a Macro for dialing in distortion. MW adds strange, tempo-synced pitch modulation. QC1 controls the volume of the ring modulator in Seq 1, QC2 controls the volume of the noise and sub-oscillator in Seq 2. More Macros for master LP cutoff, resonator mix and reverb mix/time are installed.
Amphibian Pad	Synth Pad / Other	Rich cinematic pad layering WT, analog synth and multi-sampling. Each component has a dedicated volume control, the WT synth has an additional control for detune amount, the WT and analog synth have dedicated FX controls for auto filter mix, phaser mix/speed (FX Bus L1). The sampling layer also has a Macro for sample start modulation via VEL and filter modulation. More Macros for controlling flanger/delay/reverb FX are installed. QC1 controls amount of vibrato via AT, QC2/3 control attack release. MW adds tempo-synced amplitude modulation.
Anima Drone	Musical FX / Drones	Two layered WT oscillators with re-synthesized formant filter synths, each WT oscillator has 8 Macros installed, QC3 introduces a tempo-synced HP filter sweep (filter envelope), QC4 controls amount of velocity sensitivity of the filter envelope. QC5/6 control amount of detune modulation via re-triggering, tempo-synced LFO2. MW adds tempo-synced amplitude and formant modulation (ramp up). More Macros are installed for controlling flanger/delay/reverb FX.
Bamboo Drone	Musical FX / Drones	WT synth using a WT extracted from a bamboo chime texture, layered with an analog synth drone. VEL controls amount of formant shift modulation via LFO1. The WT oscillator has controls for WT scanning speed, WT spread and detune installed, the analog synth has a Macro for controlling amount of flanger FX (on layer level) and octave. QC 1/2 are dedicated volume controls for each layer, MW adds tempo-synced amplitude modulation. More FX Macros are installed for controlling ring modulation FX, phaser, delay, reverb.

Patch Name	HALion Categories	Description
Bamboo Quencer	Musical FX / Motion -> Sequencer	Animated arp/sequencer with a WT oscillator using a WT extracted from a bamboo chime cluster. MW controls volume of WT OSC2, tuned up a perfect fifth. The main WT oscillator has Macros installed for unison detune, detune modulation (via mono LFO, which also permanently modulates detune in OSC2), formant shift and formant modulation (via LFO1). The sub-oscillator can be switched on/off and has a dedicated volume control. More Macros are available for controlling filter cutoff modulation, filter morph (dual morph filter), filter resonance, distortion, Bit Rate distortion (FX on the program bus), phaser/delay. The pitch sequence can be bypassed with a switch.
Behind The Stab	Musical FX / Hits&Stabs	Impact synth with three components, the WT synth in L1 provides a short, percussive attack, VEL increases WT index modulation via filter envelope, Macros for volume, detune, delay mix/feedback are available. L2 holds an analog synth with three oscillators and RM, control volume of OSC3/RM with the installed Macros, more controls are available for dialing in a tempo-synced pitch envelope and chorus FX. L3 plays a multi-sampled complex synth sound with zone crossfade, this layer has controls for volume, amount of cutoff modulation via looped filter envelope and a Macro for dialing in a tempo-synced pitch envelope. More Macros for controlling master LP cutoff, delay/reverb/limiter FX are installed. MW adds tempo-synced amplitude modulation.
Bowed Crotales WT Pad	Synth Pad / Other	Dual WT pad using WTs extracted from bowed (WT1) and beaten (WT2) crotales samples. The dynamics in WT1 were preserved, so the wavetable is very dynamic, WT2 was normalized, so each wave has the maximum volume. Each oscillator has 4 Macros installed for controlling volume, octave, detune amount and amount of formant modulation via filter envelope (VEL sensitive). Macros which affect both oscillators (linked to the QCs on layer level) are WT position/scanning speed modulation via VEL, auto vibrato (via mono LFO and LFO1), detune increase via AT, attack/decay time of the filter envelope (dial to the right to increase time), LP filter modulation/speed. QC1/2 control attack/release time, MW adds vibrato (via mono LFO). More FX Macros for delay, chorus (post delay) and reverb are installed. Try all ranges please!
Bowed Cymbal Pad	Synth Pad / Motion	Dual WT pad using a hybrid/combined WT of re-synthesized bowed cymbal and glass in WT1 and a tremolo played on the backside of a Hang percussion instrument in WT2. Each oscillator has 3 Macros installed for volume/octave/detune. QC1/2 introduce filter/formant modulation (LFO1, modulation depth modulated by LFO2), QC3 decreases modulation speed of LFO1, QC4 increases filter resonance, QC5/6 control attack/release time. MW introduces tempo-synced amplitude modulation (via filter envelope/step modulator). More Macros control flanger/delay/reverb FX.
Brass Being	Brass / Synth	Re-synthesized/wave-tabled euphonium brass sound, the WT oscillator has interface Macros (also connected to the QCs on layer level) for formant modulation (via tempo-synced LFO1), number of unison voices, unison detune, detune modulation via velocity sensitive pitch envelope, tempo-synced amplitude modulation (LFO2) and LFO shape of the amplitude modulation. MW adds tempo-synced pitch sequence (step modulator), +/- 1 octave with the wheel fully engaged. QC1/2 control attack/release time, more Macros are installed for dialing in the LP filter envelope (synced and looped) and controlling frequency shifter, flanger, delay, reverb FX.

Patch Name	HALion Categories	Description
Brass Flutter Swell	Brass / Synth	Slow brass swell WT synthesizer using a WT re-synthesized from an euphonium flutter tongue glissando. Control WT scanning speed/swell speed with QC1, add tempo-synced amplitude modulation with QC2. Bipolar QC3 adds a tempo-synced pitch envelope, QC4 controls release time. The Macros in the interface control formant shift, formant shift key follow and formant modulation via LFO1. Two switches engage compressor/limiter FX, more Macros let you control delay/reverb FX. MW increases unison detune. Try all ranges please!
Brass Pad	Synth Pad / Other	WT pad using a re-synthesized singing bowl, layered with analog synth The WT pad has six Macros installed for controlling volume, WT scanning speed, formant shift, LFO-modulated formant shift via VEL, velocity sensitivity of LP filter and amount of envelope controlled detune modulation. The analog synth has two controls for volume and amount of envelope controlled detune modulation, some of the Macros are linked to QCs on layer level. QC1 controls amount of detune modulation via AT, QC2/3 control attack release time. More Macros are installed for controlling phaser/chorus/delay/reverb FX. MW adds tempo-synced amplitude modulation (2 against 3).
Cautious String Texture	Musical FX / Other -> Soundscape	WT drone-pad in L1 layered with a lush tonal granular soundscape in L2. The WT synth has three Macros installed for volume, formant shift and octave and two FX Macros for chorus (inserted on the layer bus). The granular layer has Macros installed for volume/grain speed/grain position and three Macros for phaser FX (inserted on the layer bus). More Macros are available for controlling delay/reverb FX, QC1/2 control attack/release time, MW increases detune and adds distortion in L1 and shortens grain length, adds distortion in L2. Play long notes and slow melodies with this patch, use the entire range and fly away.
Cellissimo	Guitar/Plucked Other	Percussive WT pluck synth with two oscillators, using WTs extracted from bowed cello harmonics. Each oscillator has Macros installed for controlling for formant shift, volume, unison pan spread, number of unison voices and pan position, the velocity sensitive filter envelope modulates formant shift in both oscillators, VEL increases detune in WT1. QC1 increases attack/decay time and raises sustain level, QC2 introduces a fast, velocity sensitive LP filter envelope. In the interface more Macros are installed for controlling ring modulation, chorus, delay, reverb FX.
Cello Pad	Synth Pad / Other	Warm WT pad with two WT oscillators using WTs extracted from a sustained cello tone with flautato articulation. Each oscillator has three Macros installed for controlling volume/WT scanning speed and formant shifting, LFO1 modulates formant shift (modulation amount modulated by LFO2). The LP filter can be made velocity sensitive with the assigned, bipolar macro, tempo-synced amplitude modulation can be dialed in with a bipolar Macro. more controls for flanger, delay, reverb FX are installed. MW increases unison detune and increases WT scanning speed in WT1. QC1/2 control attack/release time.
China Bowl	Musical FX / Other	Re-synthesized singing bowl tremolo in two WT oscillators, playing in opposite directions. Macros for volume/detune/formant shift/WT speed/ speed modulation via LFO/formant modulation via filter envelope are available for each oscillator, OSC2 also has a Macro for octave. MW adds rotary FX (via Aux Send 1- > Layer Bus, QC6 controls rotary speed), more FX controls for controlling auto filter/delay/reverb FX are installed. QC1/2 control pan modulation amount/speed (per note, inverted polarities in OSC1/2), QC5 introduces free running AP filter cutoff/resonance modulation, QC 3/4 control attack/release time.

Patch Name	HALion Categories	Description
Counter Quencer	Synth Lead / Aprpeggio	Wavetable sequencer/arpeggiator with 2 layered pentatonic pitch sequences. Each sequence/oscillator has controls for volume, pan modulation and the volume of the sub-oscillator installed, sequence 2 also has a switch for half time, switching the step modulator from 1/32 -> 1/16 (linked to QC1 on layer level). MW increases unison detune, more Macros for controlling distortion, Resonator filter, flanger, delay, reverb FX are installed.
Cushion Pad	Synth Pad / Other	WT synth using a WT extracted from a soprano sax flageolet sample, layered with the granulated version of that sample, an LFO is slowly modulating grain position, grain speed is set to zero. MW controls mix of the Resonator filter (inserted on the program bus) which has slow, tempo-synced modulations going on. The WT synth has two controls for formant shift and unison detune, the granular layer has a bipolar Macro for grain pitch offset (+/- 12 semitones in either direction) and grain pitch randomization. Each layer has dedicated volume controls (QC3/4), QC1/2 control attack/release time. More Macros for controlling delay/chorus/reverb FX are installed.
Dark Flute WT Pad	Synth Pad / Other	Dual WT pad using re-synthesized ethnic flute WTs, each oscillator has Macros installed for controlling volume, WT scanning speed, formant shift (also LFO1 permanently modulates formant shift via VEL), unison detune and unison pan spread. QC1/2 control attack/release time, QC3 introduces random detune modulation via mono LFO, QC4 adds AT-controlled vibrato via another mono LFO, QC5 controls mix of the Resonator filter (inserted on program level). More Macros are installed for controlling chorus/delay/reverb FX, MW adds tempo-synced amplitude modulation (via filter envelope/LFO2).
Deployed	Musical FX / Sweeps	Dense and nervous dual WT synth with plenty of speed modulation, filter envelope modulates WT scanning speed, unison spread, LFO1 speed (modulating formant shift), unison detune in opposite directions in WT1/2. Each oscillator has 4 Macros installed for volume, pan position, octave and unison pan spread. The "FilterMod"-Macro (linked to QC on layer level) engages LP filter modulation via pitch envelope in WT1 and HP filter modulation in WT2. MW introduces square-shaped pitch modulation (-> LFO2 +/- 1 octave with the wheel fully engaged), LFO2 speed is modulated by filter envelope (again in opposite directions for WT1/2). QC1/2 control attack/release time, FX Macros for controlling flanger/delay/reverb are installed.
Deranged Drone	Musical FX / Drones	Strange drone-scape layering a granular texture in L1 with multi-sampled reversed piano strings (played with a pencil inside the grand piano, sampled at C1 / C4) in L2. Each component has a dedicated volume control, the granular sounds also has a bipolar Macro for grain pitch offset (+/- 12 semitones in either direction) and controls for the convolution reverb on layer level. The sampling layer has additional Macros for sample start (VEL also modulates sample start), filter/distortion envelope (via filter envelope) and FX controls for ring modulation, flanger, delay FX (FX inserted in the layer bus). Some of the Macros are linked to the QCs on layer level. MW adds tempo-synced amplitude modulation in both layers and filter modulation in L1. More Macros for controlling the master reverb are installed, QC1/2 control attack/release time.

Patch Name	HALion Categories	Description
Diamander	Chromatic Percussion / Synth Bell	Multi-sampled synth bells with FX tails, 5 pitches were sampled between C1 – C5, samples are crossfade-looped. In a second layer there is a WT synth using a WT extracted from one of the samples (C4). MW adds square-shaped pitch modulation, modulation speed is modulated via VEL and S&H, +/- 7 Semitones with the wheel fully engaged. Plenty of Macros are installed for controlling the WT synth timbre, adding RM FX to the synth bells and master delay/reverb FX. QC3 introduces velocity sensitive LP filtering.
Digi Monsta	Musical FX / Motion	Nervous digital texture, WT extracted from a glitchy drumloop. MW adds fast random modulation assigned to pitch/formant shift. Six Macros are installed for controlling WT speed/number of unison voices/detune/formant shift/formant shift modulation via LFO2/ modulation speed. A modulated combfilter and a morphing auto filter can be dialed in, more controls are available for reverb/delay FX. QC 3/4 control amount of pan modulation (re-triggering LFO1) and pan modulation speed, QC1/2 control attack/release time.
Digital Girl	Synth Pad / Digital	Dual WT pad using WTs created inside Halion's wavetable editor, each oscillators has controls for volume, WT scanning speed and formant shifting, the bipolar AmpMod-Macro adds tempo-synced amplitude modulation, more Macros for controlling phaser/delay/reverb FX are installed. QC1/2 control attack/release time, MW increases unison detune in both WT oscillators.
Double Duduk	Woodwinds / Ethnic	Dual WT synth with two re-synthesized/wave-tabled duduk samples. AT increases WT scanning speed when QC3 is engaged, QC4 adds distortion, QC1/2 control attack/release time, MW adds vibrato. Each WT oscillator has Macro controls installed for pan position/speed/ detune/unison spread, A resonator on program level can be dialed in, more controls for flanger/delay/reverb FX are available, the Glide-switch engages tempo-synced glide.
Dual WaveQuencer	Musical FX / Motion -> Sequencer	Dual WT sequencer, WT1 using a WT made from re-synthesized speed, WT2 using a re-synthesized electronic sound. WT scanning speed is set to zero, each oscillator has a dedicated step modulator sequencing the waveforms, control the range of the wave-quencing with QC1. QC2 adds pan modulation, QC3 controls amount of unison detune, QC4 adds formant modulation (via LFO2). MW introduces a pitch sequence, +/- 1 octave with the wheel fully engaged. Each oscillator has a volume control, there are three Macros for the dual morphing filter (cutoff/resonance/filter morph), two Macros and a switch control delay/reverb mix and saturation on/off (FX inserted on program bus).
Dual Sax Sequence	Musical FX / Motion -> Sequencer	Hybrid patch combining a tempo-synced granular soprano sax sequence (sampled in two octaves, the lower one is 8 bars long, the higher 4 bars, synced ramp LFO modulates grain position) with a wavetable synth which uses a tempo-synced wavetable sequence extracted from the sax loop in the lower octave (synced ramp LFO modulates wavetable position). The "Diffuse"-Quick Control randomizes grain position, increases grain length, spreads/randomizes the waveforms in the WT synth and transforms the sound into a beautiful tonal soundscape. Two types of filter modulation can be dialed in (QC5/6), synced amplitude for the sax sequences can be added with QC1, MW detunes the grains and the WT synth (unison detune), pitch offset for the granular zones can be dialed in with a QC, +/- 1 octave with the control fully engaged. Each layer has a Macro for volume in the interface, more controls for delay/chorus/reverb FX are installed.

Patch Name	HALion Categories	Description
English Horn Pad	Synth Pad / Other	Warm WT pad using a re-synthesized/wave-tabled english horn tone. The WT oscillator has seven Macros for controlling number of unison voices, unison detune, formant modulation (via mono LFO), modulation speed, formant shifting, WT scanning speed and unison pan spread. The parallel dual filter is being modulated by LFO1 (cutoff offset), QC1 adds tempo-synced amplitude and filter modulation (via step modulator/LFO2), QC2/3 control attack/release time. More Macros are available in the interface for controlling chorus/delay/reverb FX, MW adds vibrato (pitch/formant via mono LFO).
Eso Sizzle Pad	Strings / Other	Processed multi-sampled e-bowed psaltery tones in granular mode, 4 pitches were sampled between C2 – C5. A re-triggering, bipolar LFO is scanning though the samples, QC1/2 control amount of grain position modulation via AT/LFO, QC3 controls scanning speed, QC4 sets overall grain position. QC5 dials in a tempo-synced LP filter envelope, set envelope VEL sensitivity with QC6, QC7/8 control attack/release time. MW introduces tempo-synced amplitude modulation (via User Env/Stepper). In the interface there are two Macros for pitch offset (bi-polar)/grain pitch randomization, two Macros for controlling pan modulation depth/speed (per note played) and controls for delay/reverb FX.
Ethereal World Scape	Musical FX / Other -> Soundscape	Multi-sampled cosmic soundscape (2 pitches were sampled for the tonal scape - C4/F5 and C1 was sampled for the drone sound, zone crossfade is applied), layered in sampling (L1) and granular mode (L2). The sampling layer has Macros installed for volume, sample start, sample start modulation via VEL, overall velocity sensitivity and tempo-synced HP filter modulation (via filter envelope/LFO1). The granular layer has 8 Macros installed for volume, grain position, grain position modulation via VEL/AT, grain speed, grain diffusion (length/duration/position randomization) and tempo-synced LP filter modulation (via filter envelope/LFO1). MW adds tempo-synced pitch modulation (pitch envelope), QC1/2 control attack/release time, QC2 adds tempo-synced amplitude modulation (user envelope), QC4/5 control amount of pan modulation (per note) and panning speed. More Macros are installed for controlling phaser/delay/reverb FX).
Ethnic Metal	Chromatic Percussion / Synth Bell	Dual WT pluck meets multi-sampled physical modeling synth, sampled at 5 pitches between C2 – C6. Each component has its dedicated volume control, WT1 has Macros for amount of distortion via VEL and the volume of the sub-oscillator, WT2 has Macros for octave and pitch randomization, the sampling layer has a control for amount of velocity sensitive pitch envelope. MW adds fast, tempo-synced, square-shaped pitch modulation. FX controls and switches for dynamic compression, frequency shifter, chorus, delay and convolution reverb are installed.
FatSaw	Bass / Synth Bass	Analog unison synth bass with three oscillators and a sub-oscillator. MW adds vibrato, AT increases vibrato speed. Two Macros in the interface control LP cutoff/resonance, VEL sensitive filter envelope modulates cutoff, there is a volume control for the sub oscillator, a Macro for dialing in filter modulation (non-retrigging, tempo-synced LFO2) and FX controls and switches for compressor/compressor gain/saturation/convolution/reverb/delay.

Patch Name	HALion Categories	Description
Female Robot Pad	Vocal / FX	Re-synthesized/wave-tabled female speech loop, MW adds a tempo-synced pitch sequence, plenty of Macros are installed for controlling/modulating WT scanning speed, formant shift, formant shift key follow, formant modulation (via LFO), modulation speed, unison detune, LP cutoff. More Macros are available for controlling delay/chorus/reverb FX. QC1/2 control attack/release time.
Flageolet Quartet	Strings / Synth	2x2 WT oscillators using re-synthesized/wave-tabled cello flageolet sounds. MW introduces tempo-synced amplitude modulation, AT adds vibrato. QC1/3 are scanning speed/formant modulation controls for WT oscillator 1/3, QC2/4 control WT 2/4. QC 5/6 control attack/release time. Control glide time with QC7. Control WT spread for each oscillator with the Macros in the interface, more controls for auto filter mix/filter distortion, chorus, delay and reverb FX are installed.
Flexicator	Synth Lead / Aprpeggio	Dual flex phraser sequencer/arpeggiator mixing WT and analog synth, use trigger pads and/or key-switches to select the combined patterns for Flex Phraser 1/2. The WT synth has Macros installed for volume, unison detune, LP cutoff, formant shifting, formant modulation (via mono LFO), distortion and delay (inserted on layer bus). The analog synth has seven Macros installed for controlling volume of OSC1/2, ring modulation mix, pan modulation, LP cutoff, distortion, delay mix. More Macros are installed for phaser/convolution reverb/Maximizer FX.
Flute Curler	Musical FX / Motion	Two re-synthesized noisy flute tones with WT speed modulation, WT2 is tuned up an octave, each oscillator has controls for volume/detune/formant shift/formant modulation, OSC2 also has a Macro for pan modulation installed. More Macros are available for controlling chorus/delay/reverb, QC1/2 control attack/release time, QC3 increases distortion, MW adds fast tempo-synced, square-shaped pitch modulation.
FM Bella	Chromatic Percussion / Synth Bell	FM-like synth bells using three oscillators layered with a simple WT synth, using a re-synthesized Angkelung wavetable with randomized WT position, the WT synth is tuned up an octave and has a dedicated volume control and two Macros for controlling formant shift/amount of tempo-synced pan modulation. The synth has Macros for ring modulation level, sub-oscillator level, sub-oscillator waveform, unison detune/delay on zone level can be controlled with two Macros. More controls are available for tempo-synced flanger/delay/reverb FX. MW adds tempo-synced, square-shaped pitch modulation (+/- 1 octave with the wheel fully engaged), QC1 introduces the velocity sensitive filter envelope, QC2 controls release time.
Formant String	Musical FX / Sweeps	WT synth playing a re-synthesized/wave-tabled piano string texture (played with a pencil) layered with a sweeping analog synth. QC1/2 control attack/release time, QC3 introduces tempo-synced filter modulation, QC4 adds filter morphing on the WT synth (dual morph filter). The WT synth has three Macros installed for controlling volume, formant shift and formant modulation (via LFO1), MW increases LFO and WT scanning speed in L1, increases detune in OSC1 of the analog synth and increases speed of LFO1/2 in the analog synth (LFO1 modulation waveform in OSC1/2, LFO modulation filter cutoff). The analog synth has two controls for volume, octave of OSC2. Then there is a switch and two controls for the EQ and more FX controls for flanger/delay/reverb/limiter.

Patch Name	HALion Categories	Description
Free SpeechQuencer	Musical FX / Motion -> Sequencer	Dual WT sequencer with plenty of synced formant, filter, detune amplitude animation. Each WT oscillator has seven dedicated controls for volume/formant modulation, filter modulation, detune modulation, distortion in WT1 and amplitude modulation in WT2. WT1 has a flanger inserted on the layer bus (2 controls for the flanger), WT2 has an auto filter inserted on it's layer bus (2 Macros assigned). More Macros for controlling delay/convolution reverb are installed. MW decreases formant shift in both oscillators, QC1/2 control attack / release time, MW decreases formant shift.
FX Periment	Sound FX / Synthetic	WT synth using a modified WT extracted from plucking piano strings inside the instrument, three Macros for formant modulation (via LFO2), WT scanning speed and number of unison voices are installed, MW introduces WT position modulation via step modulator/LFO1. QC3 introduces detune modulation via filter envelope, QC4 adds distortion, QC1/2 control attack /release time. Macros for controlling Resonator FX /with tempo-synced filter modulation), frequency shifter, delay and reverb are installed.
Garden Chimes Split	Musical FX / Other -> Soundscape	Two long tubular chime samples split across the keyboard, split point: C3 - recorded in a garden (of my mum's house where I grew up in), each sample is layered with an effected version where the pitches of the chimes are tuned to a dorian scale, the FX version play in granular mode. Plenty of QCs and Macros are installed, amongst other things you can control/modulate sample start/grain position (QC1), grain speed (QC5), hybrid filter modulation and phaser FX for for the granular layer, chorus/ring modulation for the sampling layer, master delay/reverb FX and more. MW adds complex pitch modulation. Play long notes and meditate away!
Garden Gong Atmosphere	Musical FX / Hits&Stabs	Hybrid patch layering the sample of hitting a huge gong (located in a garden) with a metallic ring, running in granular mode, an atmospheric garden gong sample with birds and playing kids in the background and in L2 a WT synth using a WT extracted from the gong accent. The granular gong has Macros installed for volume/grain speed, grain position and grain pitch randomization. The atmospheric sample has controls for volume and octave, the gong layer has ring modulation FX and dynamic compression inserted on the layer bus, two Macros are available for RM mix/frequency, a n on/off switch and a threshold Macro control the compressor. The WT drone has Macros installed for volume, octave and filter resonance (LP cutoff modulated by looped and tempo-synced, velocity sensitive filter envelope), flanger FX can be dialed in (inserted on the WT layer bus). More controls for delay/reverb FX are available. QC1/2 control attack/ release time, QC3 introduces filter modulation in the gong layer, QC4 controls filter modulation speed. MW introduces pitch modulation mayhem.
Garden Gong Synth	Musical FX / Hits&Stabs	A huge gong hit with with a metallic ring, recorded in the garden of the house where I grew up, layered with the same gong in reverse mode - the gongs are set to microtonal tuning (key follow -> 33%), root note: C3. In a second layer a WT synth using a WT derived from the gong accent adds a rich drone sound. Each component has it's dedicated volume control, separate FX controls for each layer (flanger in the WT layer, frequency shifter in the gong layer) and master FX control for the program bus (delay/reverb) are installed, the WT drone and the reversed gong sound also have a Macro for octave installed. QC1/2 control attack/release time. MW adds slow pitch glissandos in all sounds.

Patch Name	HALion Categories	Description
Garden Gongs Granular	Musical FX / Other -> Soundscape	Two layered gong textures recorded in the garden of the house where I grew up, both zones are playing in granular mode, each gong has Macros for volume and grain pitch offset installed (bipolar -> +/- 12 semitones in either direction). The auto filter inserted on the layer bus can be dialed in with a control, more Macros are installed for controlling flanger/delay/convolution reverb FX. MW randomizes grain pitch, QC1 modulates grain speed, QC2 perforates the grains, QC3/4 control attack/release time, QC5 adds amplitude modulation, QC6 controls modulation speed.
Glass Drone	Musical FX / Drones	Mysterious dual WT drone using WTs extracted from bowed glass samples. Each oscillator has controls for volume/WT scanning speed/ formant shift, an X/Y-pad controls the dual morph filter (X -> cutoff, Y -> morphs between hybrid highpass/allpass filter and lowpass filter), more filter controls for resonance, LFO-controlled cutoff/morph modulation /filter/user envelopes) are installed. MW adds tempo-synced amplitude/formant modulation (step modulator/LFO1), QC1/2 control attack/release time, QC3 increases unison detune, QC4 adds distortion. In the interface more Macros are available for controlling ring modulator mix/frequency, delay, reverb, flanger FX.
Glitch Drone	Musical FX / Drones	Dual WT drone using a re-synthesized plastic texture in WT1 and a modified version of that wavetable in OSC2. Each oscillator has Macros installed for controlling volume, WT scanning speed, detune and formant shift. More Macros are installed for controlling flanger/ delay/reverb FX. QC1/2 control attack/release time, QC3 introduces a looped, tempo-synced LP filter envelope (+some LFO1 modulation), QC4 controls mix of the Resonator filter on the program bus. MW introduces tempo-synced amplitude modulation (via step modulator).
Glocken Pad	Synth Pad / Other	Warm, dual WT pad using a re-synthesized/wave-tabled glockenspiel texture in WT1 and a WT extracted from an electronic synth sound in WT2, formant modulation in both oscillators via LFO1. Each oscillator has controls for volume/WT scanning speed and formant shift, WT2 also has a control for octave. A bipolar Macro dials in tempo-synced amplitude modulation (via step modulator), auto filter mix/speed (inserted on the layer bus) can be controlled with two Macros, more controls for delay/reverb FX are installed. QC1/2 control attack/release time, MW increases unison detune.
Gomorrah Drone	Musical FX / Drones	Two WT drones using re-synthesized distorted and bowed electric guitar sounds. Each zone has Macros installed for oscillator volume/ WT speed/detune/formant shift/amount of envelope modulation for formant/pitch (bi-polar). The velocity sensitivity of the tempo-synced filter envelope modulating formant/detune/cutoff/distortion can be dialed in with individual Macros per WT synth, QC3 controls the amount of cutoff/distortion modulation, QC4 introduces tempo-synced modulation of filter resonance, QC1/2 dial in tempo-synced pitch envelope for each oscillator, +1 octave with the QC fully engaged, QC5/6 control attack/release time. MW introduces tempo-synced amplitude modulation (via LFO2/step modulator). More Macros are installed for controlling delay/phaser/ reverb FX.

Patch Name	HALion Categories	Description
Gong Drone	Musical FX / Hits&Stabs	Metallic, dual WT drone/hit using 2 versions of a WT derived from a re-synthesized gong sample (played with a rubber-ball), each WT zone has Macros for volume, unison spread and formant modulation speed (LFO1), WT1 has a Macro for WT random position, WT2 has a Macro for octave. A stereo enhancer can be switched on (FX on the program bus), more Macros are available for frequency shifter, reverb/delay FX. QC1/2 control attack/release time, QC3 controls amount of envelope controlled detuning for WT1 (via velocity sensitive pitch envelope), QC4 reduces LP cutoff, adds cutoff modulation (LFO2) increases filter resonance, adds distortion and makes the LP filter velocity sensitive. MW - amongst other things - increases WT scanning speed.
Hang Pad	Synth Pad / Motion	Animated wavetable pad with tempo-synced modulations, WT derived from rubber balls shaking inside a Hang drum. MW introduces vibrato (via mono LFO), seven Macros in the interface control number of unison voices, unison detune, formant shift, WT scanning speed, unison pan spread and bipolar controls for dialing in tempo-synced amplitude and filter modulation (both via filter envelope sequence). More Macros for controlling chorus/delay/reverb FX are installed. QC1/2 control attack/release time, QC3 adds filter modulation (via LFO1/2).
Harp Descender	Strings / Synth	WT synth with three oscillators (one in zone 1, two in zone 2) using three variations of a WT extracted from a descending harp glissando. Each oscillator has controls for volume and pan position. MW adds vibrato (via 2 mono LFOs on program level), QC1 slows down WT scanning speed, QC2 increases filter resonance (dual morph filter modulated by LFO1/2, use QC 4/5 for modulation control), QC3 adds distortion, QC 7/8 control attack/release time
Holy Poly	Musical FX / Motion -> Sequencer	Three layered sequencer WT synths in different time signatures, MW adds tempo-synced random filter modulation. Each oscillator has Macros installed for volume, octave, detune, formant shift and pan position, the filter envelope in each zone creates the main rhythm and also modulates WT index position and formant shift. The 4/4-sequence in WT synth 3 also has a volume control for the sub-oscillator. Bypass switches let you switch of the individual pitch sequences. FX Macros and switches for delay/convolution reverb/Maximizer are installed, QC1 adds pan-modulation per note with different panning speeds per sequence.
Hybrid Piano Strings	Piano / Other	Re-synthesized/wave-tabled piano string texture meets multi-sampled granular piano string textures (played with a pencil inside the instrument (three pitches sampled at C1/G2/C4). The WT synth has controls for volume, formant shifting, WT scanning speed, a Macro for dialing in a tempo-synced glissando via pitch envelope and a control for setting amount of AT controlled vibrato (LFO1/2). The granular layer has Macros for volume and flanger FX (inserted on the layer bus), QC1-3 control grain speed, grain length, grain position randomization, QC4/5 control attack/release time. More controls in the interface control auto filter/tremolo/delay/reverb FX. MW randomizes grain pitch in the granular layer and increases unison detune in the WT synth.

Patch Name	HALion Categories	Description
Image Pad	Synth Pad / Digital	Dual WT pad using the WT of a re-synthesized image in WT1 and a digital wavetable in WT2. Each oscillator has a volume control, WT2 also has a bipolar Macro for coarse tuning, a mono LFO permanently modulates cutoff of the hybrid filter. AT controlled formant shift modulation via LFO1 can be dialed in with the assigned Macro, MW increases unison detune/pan spread, QC1 controls WT scanning speed, QC2 controls formant shift, QC3 adds tempo-synced amplitude modulation (step modulator), QC4/5 control attack/release time.
Instable Tables	Musical FX / Drones	Complex dual WT drone using WTs extracted from re-synthesized images, each WT synth has 5 Macros installed (some of them linked to the QCs on layer level) for controlling volume/octave/WT speed modulation (via filter envelope), detune modulation (via LFO1), formant shift and filter modulation (dual morphing filter). MW adds tempo-synced amplitude modulation (via step modulator/user envelope). FX controls for stereo width/resonator mix, reverb, delay (post reverb) are installed. Control glide time with QC3, QC1/2 control attack/release time.
Lawn Mower	Musical FX / Motion -> Sequencer	Dual WT sequencer using synced WTs extracted from music loops, each sequence has a dedicated set of controls for volume/unison pan spread/detune/tempo-synced amplitude and formant modulation (the latter two are linked to the QCs on layer level). Seq 1 also has a switch for enabling a glitch sequence (noise oscillator) and a Macro for delay mix. Seq 2 has a switch for enabling the sub oscillator and a volume control for the sub. QC1 adds tempo-synced, random filter modulation, QC2 adds bit crusher distortion, MW adds a tempo-synced pitch sequence - +/- 1 octave with the wheel fully engaged. More Macros for controlling convolution reverb/Maximizer FX are installed.
Lyrical Sax Cloud	Musical FX / Motion -> Sequencer	Granulated soprano sax phrase (mapped from C2 – C6) meets WT synth sequence (C0 – C6) with WT position modulation via step modulator. Each layer has a dedicated volume control in the interface, FX controls for delay/flanger/reverb FX are installed. QC1-3 control grain spread/grain speed/grain position randomization in the sax layer, QC4 introduces tempo-synced, triplet-based amplitude/filter modulation in the sax layer. QC5 adds formant modulation in the WT sequence (via LFO2), QC6/7 control attack/release time. MW randomizes grain pitch in the sax layer and increases unison detune in the WT synth.
Mantra Synth	Synth Lead / Other Pad	Rich lead and pad synth, WT1 uses a hybrid wavetable (mixed e-bowed electric guitar and flute), WT uses another re-synthesized/wave-tabled e-bow tone. Each oscillator has controls for volume, WT scanning speed, octave, QC3 controls amount of unison detune modulation (via tow random mono LFOs), QC1/2 control attack/release time. QC4 controls amount of AT-controlled vibrato, QC5 sets glide time, QC6 introduces the velocity sensitive, tempo-synced and looped LP filter envelope. MW introduces tempo-synced formant/amplitude modulation (via LFO1/2).

Patch Name	HALion Categories	Description
Meditation Table XT	Musical FX / Drones	L1: Dual WT synth using two WTs extracted from a HANG tremolo sample - L2: noise oscillator and sub-oscillator of a WT zone run through a tuned BP filter. QC1 controls the WT layer level, each WT oscillator has dedicated controls for volume/WT scanning speed and formant shifting, chorus FX on layer level can be dialed in with a Macro. The noise synth in L2 has a Macro for phaser mix, control the volume of L2 with QC2, tune up the tuned filter by an octave with QC3. QC4 controls release time. More Macros for frequency shifter/delay/reverb FX are installed. MW increases number of unison voices/unison detune in both WT oscillators.
Mellow Vox	Synth Pad / Synth Choir	Mellow vox pad using two WTs derived from female overtone singing, each oscillators has controls for volume/pan position/detune/unison spread/speed, MW adds tempo-synced filter modulation (LFO2/step modulator). Macros for chorus/delay/reverb FX are installed, QC1 adds slow formant modulation (in opposite directions for WT1/2), QC2 controls amount of vibrato (pitch/format) via AT, QC3/4 control attack/release time, QC5 controls amount of detune modulation via LFO1 (in opposite directions for WT1/2).
Metallic HAPI Drone	Musical FX / Drones	Dual animated WT synth, wavetable in WT1 and a variation thereof in WT2 extracted from a HAPI percussion instrument. OSC1 has controls for WT scanning speed, formant shift, unison detune, formant modulation (via LFO1) and volume - OSC2 has controls for WT scanning speed, detune, octave and volume. QC1 adds tempo-synced filter modulation (via step modulator), QC2 introduces tempo-synced amplitude modulation, QC3 engages tempo-synced, pitch-envelope controlled modulation of distortion amount, QC4/5 control attack/release time. More Macros in the interface control LP master cutoff, flanger/delay/reverb FX. MW adds tempo-synced, square-shaped pitch modulation (user envelope), +2 semitones with the wheel fully engaged.
Metallix	Musical FX / Drones	Two re-synthesized Photosounder textures in a dual WT synth with unison engaged on zone level. MW adds tempo-synced random filter modulation (parallel HP/BR) and increases filter resonance, control unison detune with the knob between the WT displays. Each oscillator has controls for volume/formant shift/octave and speed installed, more Macros are available for controlling flanger/delay/reverb FX. QC1 adds tempo-synced amplitude and formant modulation (via envelopes and stepper).
Metusalix Split	Musical FX / Sweeps	Two split layers combining granular synthesis drones with a synth drone in the lower register and a noise-scape in the upper, split point: C3. Each component has a dedicated volume control installed, FX controls for ring modulation/delay/reverb are installed. MW decreases LP cutoff and adds distortion, QC1 controls grain speed in the granular zones, QC2 engages grain position modulation/sample start modulation via VEL, QC3 shortens the grains and adds weird modulation to the sampling/synth zones, QC4 controls the amount of grain position randomization via AT, QC5/6 control attack/release time.

Patch Name	HALion Categories	Description
Minimal SaxQuencer	Musical FX / Motion -> Sequencer	Hybrid patch combining a tempo-synced granular soprano sax sequence (sampled in two octaves, the lower one is 8 bars long, the higher 4 bars, synced ramp LFO modulates grain position) with a wavetable synth which uses a tempo-synced wavetable sequence extracted from the sax loop in the lower octave (synced ramp LFO modulates wavetable position). The "Diffuse"-Quick Control randomizes grain position, increases grain length, spreads/randomizes the waveforms in the WT synth and transforms the sound into a beautiful tonal soundscape. Two types of filter modulation can be dialed in (QC5/6), synced amplitude for the sax sequences can be added with QC1, MW detunes the grains and the WT synth (unison detune), pitch offset for the granular zones can be dialed in with a QC, +/- 1 octave with the control fully engaged. Each layer has a Macro for volume in the interface, more controls for delay/chorus/reverb FX are installed.
Minimal Triplet Dance	Musical FX / Motion -> Sequencer	Dual WT sequencer layering two triplet-based pitch sequences, the WT was extracted from a percussive sample (mallet on lamp). Each sequence has controls for volume/detune and a bypass switch for the pitch sequence (via step modulator). QC1 dials in tempo-synced amplitude/filter modulation, MW adds tempo-synced formant modulation. QC4 adds a tempo-synced „pitch glitch" sequence (via pitch envelope), QC5/6 control attack/release time. More Macros for controlling delay/chorus/reverb/Maximizer FX are installed.
Motion Hang	Musical FX / Motion -> Sequencer	Re-synthesized Hang loop playing in sync, layered with analog synth sequence which has dedicated Macros for the volume of each oscillator (OSC2 has a pitch sequence running via step modulator, this can be dialed in with QC2). MW increases detune. QC1 adds tempo-synced amplitude modulation, QC3 introduces slow LP filter modulation in the WT synth, QC4/5 control attack/release time, MW increases unison detune. FX controls are installed for ring modulator/ delay/reverb/limiter FX.
Noise Scaper	Sound FX / Synthetic	Three noise oscillators with rhythmical noise samples, tuned LP filter can be dialed in with QC3, QC4 adds rate distortion, QC1/2 control attack/release time. MW adds tempo-synced amplitude modulation. Each oscillators has controls for volume, pan position, pitch, amount of pitch key follow, pan modulation/pan modulation speed, pitch modulation/pitch modulation speed. More Macros are available for controlling the Resonator filter (program bus), frequency shifter, delay, reverb FX.
Odd Even Mill	Musical FX / Sweeps	Dual WT Synth using an odd and an even tempo-synced WT, MW adds vibrato, each oscillator has Macro controls for volume, octave and detune, more Macros control delay/ensemble/reverb FX. QC1/2 control attack/release time, QC3 adds distortion, QC4 introduces a tempo-synced pitch stepper – +/- 1 octave with the control fully engaged.
Overtone Vox	Vocal / FX	Re-synthesized/wave-tabled male overtone singing, the WT in OSC2 has the fundamental removed. Each oscillator has Macros for volume, unison detune, WT spread and WT scanning speed, WT2 also has two controls for amount of formant modulation/modulation speed (via LFO1). MW introduces tempo-synced amplitude modulation (via LFO2/step modulator), QC1 cuts the high frequencies (EQ on program bus), QC2/3 control attack/release time. More Macros control master LP cutoff, flanger, delay, reverb FX.

Patch Name	HALion Categories	Description
PianoVerse	Musical FX / Hits&Stabs	Dual WT piano drone synth using two re-synthesized/wave-tabled piano accents, each oscillator has seven Macros installed for controlling volume/unison voices/detune/WT scanning speed/formant shift/formant shift modulation via LFO/LFO speed. MW adds tempo-synced amplitude modulation via filter/pitch envelopes, QC1/2 control attack/release time, QC3 controls amount of vibrato via AT. More FX controls for flanger/auto filter/delay/reverb are available.
Pilgrim Lead	Synth Lead / Other	Expressive mono lead synth with two WT oscillators using WTs extracted from euphonium noise samples. Each WT oscillator has Macros installed for controlling volume, detune and octave, dial in WT scanning speed modulation via VEL, free running formant modulation (mono LFO) and distortion for both oscillators with the assigned Macros. QC1/2 control attack/release time, QC3 introduces pitch modulation via AT (+2 semitones when fully engaged), QC3 makes the LP filter cutoff velocity sensitive and also adds filter resonance. MW adds vibrato, more Macros for controlling chorus/delay/reverb FX are installed.
Psaltery Synth	Synth Comp / Other	Dual wavetable synth combining a wavetable derived from a processed cello sound in WT1 with a re-synthesized psaltery tone in WT2. Each oscillator has Macros for volume, WT scanning speed and unison detune installed, More Macros control flanger/delay/reverb FX. QC1-4 control ADSR, QC5 introduces a velocity sensitive LP filter envelope also modulating distortion amount, QC6 controls amount of vibrato via AT. MW decreases formant shift and adds tempo-synced amplitude modulation via LFO1.
Re-String	Musical FX / Drones	Two re-synthesized piano string sounds playing in two WT-zones, QC1/2 control attack/release time, QC3 dials in individual filter modulation (in opposite directions), QC4/5 control amount of pan modulation (per note) and panning speed. Each oscillator has controls for volume/octave/WT speed/WT spread/detune/formant shift. FX controls for the resonator/flanger/delay/reverb are installed. MW adds tempo-synced amplitude modulation.
Reso Groover	Musical FX / Motion -> Sequencer	Edgy WT sequencer using a modified cello wavetable, the upper left Macro in the interface controls amount of formant shifting (via LFO1), then there is a bipolar control for tempo-synced amplitude modulation, the two Macros on the right (also linked to the QC2 on layer level) control amount of tempo-synced filter modulation (via LFO2/step modulator) and distortion. Three aux sends control send levels to the AUX busses on program level (delay/flanger/convolution reverb), another Macro control Resonator filter mix (which has tempo-synced LFO modulations going on). MW increases unison detune.
Sax Trill Pad	Synth Pad / Other	Warm WT pad using a re-synthesized/wave-tabled soprano sax trill. Macros are installed for formant shift, formant modulation (via LFO1), WT spread and WT scanning speed. QC1/2 control attack/release time, QC3 introduces tempo-synced HP filter modulation (via LFO2), QC4 sets the modulation speed (1/4 hard left – 1/8 hard right). QC5 controls amount of AT-controlled vibrato (via mono LFO). More Macros in the interface control chorus/delay/reverb FX, MW increases unison detune.

Patch Name	HALion Categories	Description
Sky Hoover Drone	Musical FX / Drones	Dual WT drone and noise oscillator sounding complex and digital. Each oscillator has four Macros installed for volume, WT scanning speed, unison detune and formant shift, WT1 also has a control for dialing in formant modulation (via LFO1), LFO2 is permanently modulation WT spread in OSC2. The center switch activates unison on zone level (three unison voices - increases CPU load), another Macro controls volume of the noise oscillator. QC1/2 control attack/release time, QC3 introduces tempo-synced filter modulation via step modulator with the tempo-synced pitch envelope controlling modulation depth, MW introduces tempo-synced amplitude modulation (via user envelope). More Macros are installed for controlling frequency shifter/phaser/delay/reverb FX.
Sky Scanner Split	Musical FX / Sweeps	Lush granular pad meets hypnotic layered drone - overlapping split point: C2, VEL modulates grain position in both granular zones. The drone sound is layered with a WT synth using a WT extracted from the drone sample (WT mapped up to C2), WT position is permanently modulated by a tempo-synced step modulator. QC1-3 are granular controls for grain spread/speed/position randomize, CC4 adds tempo-synced amplitude/filter modulation, QC5 adds formant modulation to the WT synth, QC6/7 control attack/release time. The WT drone has 3 Macros for volume/octave/formant shift, the lower granular sound has a Macro for distortion amount, the upper granular sound has 2 Macros for pitch offset (+/- 1 octave in either direction) and glide time. More Macros for FX control (flanger/delay/reverb) are installed, MW randomizes grain pitch in the granular layer and increases unison detune in the WT synth.
Soothing Gong Pad	Synth Pad / Other	Smooth WT pad using a re-synthesized/wave-tabled gong sound (played with rubber balls). Macros for formant shift, formant modulation (via VEL sensitive filter envelope), WT scanning speed and tempo-synced amplitude modulation (bipolar control). QC1/2 control attack/release time, QC3 controls amount of AT-controlled vibrato, QC4 adds a mixture of hybrid BR/LP filter modulation and phaser FX (inserted on the program bus), MW increases unison detune. More Macros for controlling flanger/delay/reverb FX are installed.
Spectral Bass	Bass / Synth Bass	Percussive, woody bass sound using a WT extracted from an electronic texture. The oscillator has three Macros for controlling unison detune, volume and waveform of the sub-oscillator. A switch engages unison on zone level (3 voices -> higher CPU load), the convolution reverb can switched on/off and reversed, a control for reverb mix is also available. More FX Macros for delay/Maximizer FX are installed. QC1 controls WT spread, QC2 randomizes WT position, QC3 adds distortion, QC4 controls LP filter cutoff (modulated by VEL sensitive filter envelope), QC5 controls amount of AT-controlled vibrato. MW introduces WT position modulation via amp envelope and increases amp envelope decay time.

Patch Name	HALion Categories	Description
Spectral Bowl Scape	Musical FX / Other -> Soundscape	Processed granulated singing bowl split in L1 (with zone crossfade between C3 – F3), re-synthesized/wave-tabled singing bowl WT synth in L2, the latter has Macros installed for volume/detune/WT scanning speed/formant shift/formant shift modulation via LFO/modulation speed. The granular sounds have a volume control and a Macro for dialing in auto rate modulation assigned to pitch. MW randomizes grain pitch and adds fat random pitch modulation in the the WT synth. QC1/2 control amount of grain position modulation via VEL/AT, QC3 controls grain speed, QC4 controls grain position spread, QC5 perforates the grains, QC6/7 control attack/release time. More Macros for controlling Resonator filter/delay/distortion (post delay)/reverb FX are installed.
Spectral Psaltery	Synth Pad / Digital	Mystery pad using a re-synthesized/wave-tabled psaltery sound, WT was tweaked to enhance the harmonics. The WT oscillator has Macros for controlling number of unison voices, unison detune, formant shift, keyboard follow of formant shift (bipolar control), WT scanning speed, unison pan spread, formant modulation /via filter envelope) and there is a control for setting the glide speed. A dual morph filter modulated by LFO2 (cutoff) and LFO1 (morph) can be dialed in with QC1, QC2 controls amount of auto vibrato (mono LFO with modulation depth modulated by LFO1), QC3/4 control attack/release time, QC5 engages an EQ to cut some of the high frequencies. More Macros are installed for chorus/delay/reverb FX.
Spectral String Organ	Organ / Other	Dual, organ-like WT synth using two re-synthesized/wave-tabled cello sounds, each oscillator has controls for volume/WT scanning speed installed. Rotary FX (inserted as aux send on layer level) can be controlled with three Macros, More FX controls for delay/chorus/reverb are available. MW introduces formant modulation via LFO2, AT increases modulation speed. QC1/2 control attack/release time, QC3 makes the LP filter velocity sensitive and dials in filter resonance/distortion.
Spectrality Drone	Musical FX / Drones	Dual, animated WT drone using two wavetables extracted from harp samples. Each oscillator has controls for volume/detune/WT scanning speed, a Morph 4 filter can be engaged with 2 controls (cutoff/morph modulation via tempo-synced filter envelope/pitch envelope), tempo-synced amplitude modulation (via user envelope) can be dialed in with another control. VEL controls amount of detune/formant modulation via LFO1, LFO2 modulates filter resonance. MW introduces a pitch sequence (step modulator), +/- 1 octave with the wheel fully engaged. More Macros for controlling the tempo-synced step flanger, delay, reverb FX are available. QC1/2 control attack/release time, QC3 dials in AT-controlled vibrato, QC4 adds distortion.
Speech Pad	Synth Pad / Digital	Bright, dual WT pad using speech re-synthesis. Each oscillator has controls for volume, WT scanning speed and formant shift. Dual parallel filter modulation (via LFO1/2 for cutoff/cutoff offset) and filter resonance can be controlled with two Macros. FX controls for phaser/delay/reverb are available. QC1/2 control attack/release time, QC3 dials in AT-controlled vibrato, MW increases unison detune.
Sphere Descender	Musical FX / Sweeps	Sweeping synth with unison on oscillator and on zone level (use switch to engage), filter sweep depth is controlled via VEL. MW adds tempo-synced filter and amplitude modulation (via LFO2/step modulator), QC1 controls release time, QC2 engages vibrato via AT. Macros for number of unison voices, unison detune, auto filter, phaser, delay, reverb, limiter FX are installed.

Patch Name	HALion Categories	Description
Stabber Synth	Musical FX / Hits&Stabs	Percussive WT synth with animated sustain phase using a WT extracted from a choir speech sample with lots of consonants. WT scanning time is modulated by filter envelope, MW adds tempo synced amplitude modulation (via user envelope). The WT oscillator has Macros for formant shift, formant modulation (LFO1 with user envelope as sub-modulator) and unison pan spread. FX controls for phaser/delay/reverb FX are installed. QC1 dials in the looped and tempo-synced filter envelope (slightly VEL sensitive), QC2 controls release time.
Star Scanner	Musical FX / Other -> Soundscape	L1: granular soundscape, LFO 1 slightly modulates grain position, scan through the samples with MW and be surprised. Two controls for grain pitch randomization and grain pitch offset (bipolar control - 1 octave in either direction) are installed, a phaser on the layer bus can be controlled with two Macros, a switch engages dynamic compression on the layer bus. L2 adds a dual WT synth with square-shaped octave modulation (LFO1 - LFO speed modulated via filter envelope), each oscillator fading in/out and panning L-R with inverted polarities. Both WT-oscillators have Macros for formant shift and octave installed. A flanger on the WT layer bus can be controlled with three Macros. More FX controls for delay/reverb FX are available. QC1/2 are dedicated volume controls for each layer, QC3/4 control attack/release time.
Stone Of Wisdom Split	Musical FX / Other -> Soundscape	Field recorded stone-water-splash layered with effected version (sampling and granular C-2 – C3) and processed water bells (C3 – C7), overlapping split point: C3. Each layer has a volume control - natural stone in L1, split sampling in L2 - split granular in L3, control sample start of L2 with QC1, control grain speed/position in L3 with QC3, add filter modulation to L2/3 with QC6, control modulation speed with QC7. MW adds tempo-synced tremolo FX, each layer has Macro controls for volume, the stone-splash in L1 has controls for pitch key follow range and coarse tuning and a dedicated convolution reverb which can also be reversed with a switch. The granular layer has 2 Macros for pitch randomization (one for each split sound). More Macros for phaser/delay/reverb FX are available.
Surreal Summer Birds	Sound FX / Nature	Field recording of birds playing in granular mode, QC 1-4 are granular controls for grain speed/grain spread (inverted/grain pitch randomization/grain duration, QC5/6 control attack/release time, QC 7/8 control amount of grain position modulation via VEL/AT. Layer 2 adds a WT drone using a WT extracted from a segment of that bird sample, Macro controls for volume/formant shift/amount of formant modulation via LFO 1/unison detune are installed. MW adds complex pitch modulation in both layers, each sound has a dedicated FX bus, the birds use a convolution reverb which can be switched on/off and reversed with another switch, the drone has four Macros installed for controlling the flanger. More Macros for controlling reverb/delay (post reverb) FX are available.
Table Mill	Musical FX / Motion -> Sequencer	Digital sequencer combining WT with analog synthesis. MW adds frequency shifter FX in the WT synth and ring modulation in the analog synth. Both oscillators in the analog synth have an on/off-switch, Macros for volume, bitrate distortion mix/frequency (inserted on layer bus) are available. The WT synth has two controls for volume and unison detune. More Macros for the Resonator filter, delay and flanger FX are installed.

Patch Name	HALion Categories	Description
Table Tenor Stab	Synth Comp / Digital	Re-synthesized tenor sax flageolets layered with analog synth, brassy stab synth - dial in AT-controlled vibrato with QC1, QC2 adds a fast glissando during the attack phase. The WT synth has Macros for volume, number of unison voices/detune - the synth has volume controls for each oscillator (OSC2 is tuned up a perfect fifth) and an on/off switch for OSC2. The unison switch engages unison on zone level (3 voices -> high CPU). More Macros for FX are installed (compressor/auto-filter/phaser/delay/convolution reverb). MW increases unison detune in all oscillators.
Talking Scape	Musical FX / Other -> Soundscape	Multi-sampled tonal soundscape sampled at 3 pitches (C2 – C3 – C5) layered with a WT synth using a WT extracted from one of the scapes. Each layer has it's dedicated volume control, 4 granular controls (QC1-4) are available for grain speed/grain position control via AT/grain perforation/grain spread, QC5/6 control attack/release time, fast wavetable position modulation can be introduced via QC7. The interface provides more Macros for WT scanning speed, WT flanger mix and Macros for controlling phaser/delay/reverb FX. MW randomizes grain pitch and increases WT unison detune.
The Tower	Musical FX / Drones	Cinematic drone-scape layering WT drone, noise synth with tuned BP filter and digital rumbling. The WT synth has Macros installed for volume, WT scanning speed, detune, detune modulation via LFO and flanger FX. The noise synth has 3 controls for volume, fast random BP filter cutoff modulation and distortion, the digital gravel sample (pitch key follow -> 33%) has controls (linked to the QCs on layer level) for volume, sample start, sample start randomization (via LFO), random glide pitch modulation, distortion and controls for the convolution reverb (inserted on a layer bus). MW adds pitch/formant modulation to the WT synth, more Macros reinstalled for controlling delay/reverb FX. QC1/2 control attack/release time.
Time Flux	Musical FX / Sweeps	Animated sweeping WT synth, wavetable extracted from an Angkelung tremolo with accel/rit. Macros for controlling WT scanning speed, formant shift, unison detune, WT random position/direction and WT spread are installed. Formant modulation via tempo-synced pitch envelope and WT scanning speed modulation via user envelope can be dialed in with another two Macros. QC1/3 control attack/release time, QC3 dials in Resonator filter (program bus), QC4 introduces LP filter modulation (via LFO2), QC5 controls filter modulation speed. MW introduces a pitch sequence (via step modulator), 2 octave range with the wheel fully engaged.
Traffic Dronescape	Musical FX / Drones	Cinematic drone-scape combining wavetable synthesis with granular synthesis and sampling. In L2 mapped from C0 – C3 there is a processed field recordings of a traffic drone, layered, playing forward and reverse. Control sample start of the sample playing forward with QC1, control volume of the sampling layer with the Macro in the interface. Mapped from C3 – C7 there is a processed field recording of a lorry brake playing in granular mode, control grain speed and octave with the Macros in the interface. A WT drone using a WT extracted from the traffic drone is playing over the entire range (C0 – C7), two Macros for volume/distortion are installed. Control attack/release time with QC2/3, FX controls in the interface for reverb/delay (post reverb) FX are available. MW increases unison detune in the WT layer, adds random glide pitch modulation in the sampling layer and randomizes grain pitch in the granular layer.

Patch Name	HALion Categories	Description
Tubular Synth	Musical FX / Hits&Stabs	Percussive, metallic, dual WT synth with animated sustain phase. MW adds vibrato (LFO2), AT increases vibrato speed, a filter envelope modulating formant shift can be dialed in with a Macro (in each oscillator) and is velocity sensitive, tempo-synced, random LFO1 modulating formant shift (in opposite directions for WT1/2) can be dialed in with a dedicated Macro in WT1/2. Each oscillator has more controls for WT scanning speed, formant shift, octave and volume. QC1 adds pan modulation per voice (user envelope), QC2 controls release time, FX controls for chorus/master LP cutoff, delay, reverb are installed.
Tuva Quartet	Vocal / Other	2x2 WT oscillators using re-synthesized/wave-tabled Tuva throat-singing sounds. MW introduces tempo-synced amplitude modulation, AT adds vibrato. QC1/3 are controls for WT oscillator 1/3 (WT scanning speed/formant modulation), QC2/4 control WT 2/4. QC5/6 control attack/release time, set glide time with QC7. Control WT spread/volume for each oscillator with the Macros in the interface, more Macros for auto filter mix/filter distortion, chorus, delay and reverb FX are installed.
UFO Gongs	Musical FX / Other -> Soundscape	Spectrally processed gong texture, layered in granular and sampling mode, the sampling oscillator uses a tuned bandpass filter. Each layer has a dedicated set of Macros (some of them attached to the QCs on layer level), 4 Macros let you control amount of grain speed/duration modulation (via LFO1), grain perforation, grain position and LP filter modulation in L1, 5 Macros control volume of the sampling layer/sample start/distortion amount/frequency shifter mix and frequency (FX inserted on layer bus). More Macros for controlling master delay/reverb are available, MW randomizes grain pitch in L1 and adds random LFO modulation assigned to bandpass filter cutoff (tuned) and pitch in L2. Control attack/release time with QC1/2.
Vibra Melange	Chromatic Percussion / Mallet	Granulated and re-synthesized vibraphone tremolos, L1 runs in granular mode and uses two multi-samples, Macros (linked to QCs on layer level) for controlling volume, grain speed, grain diffusion, filter modulation and grain position modulation (also via VEL) are installed. L2 adds a re-synthesized/wave-tabled vibraphone tremolo, controls for volume, WT scanning speed, formant shifting, formant modulation via LFO and auto filter mix (on layer level) are installed. MW detunes the grains and increases unison detune in the WT layer. More Macros for controlling ensemble FX, delay, reverb are available. Control attack/release time with QC1/2.
Vocal Lead Duet	Vocal / Lead Vocal	Dual WT vocal lead synth using a re-synthesized/wave-tabled vocal phrase in WT zone 1 and a re-synthesized/wave-tabled cello phrase in WT zone 2 (each zone embedded in it´s own layer). WT 1 has controls for volume, WT scanning speed and ensemble FX mix (inserted on layer bus), VEL controls amount of formant shift in both oscillators. WT2 has Macros for volume and filter resonance (tuned bandpass filter), FX controls for delay/reverb FX are installed. QC1 controls release time, QC sets glide time, MW adds vibrato.
Waterphone Drone	Musical FX / Drones	Dual WT drone using re-synthesized/wave-tabled waterphone sounds in L1, animated noise oscillator in L2. The two WT oscillators have controls for volume/unison detune, chorus/delay FX inserted on the layer bus have three Macros assigned. The noise oscillator in L2 has controls for volume, delay and phaser FX (inserted on layer bus), LFO1 permanently modulates noise speed, tempo-synced LFO2 modulates amplitude, step modulator modulates pan position (with LFO1 as sub-modulator). Macros for master LP cutoff and reverb FX are installed. QC1/2 control attack/release time, QC3 introduces tempo-synced amplitude moduation. MW introduces tempo-synced, square shaped pitch modulation in L1 (via pitch envelope, +/- 1 octave with the wheel fully engaged).

Patch Name	HALion Categories	Description
Whisper Pad	Synth Pad / Motion	WT synth pad using a WT extracted from whispering voices, playing in two oscillators in opposite directions and different phase modes. Each oscillator has controls for formant shifting/formant modulation (via LFO2) and amount of formant key follow. Unison on zone level can be engaged with a switch, number of unison voices can be set with a Macro, MW increases unison detune. More Macros are available for controlling master LP cutoff, chorus, delay, reverb FX. QC1 controls WT scanning speed, QC2 adds tempo-synced, triplet-based amplitude modulation, QC3/4 control attack/release time.
Windy Grain Pad	Synth Pad / Other	Multi-sampled physical modeling synth pad with lots of air, 6 pitches were sampled between C0 – C5, the zones are playing in granular mode. LFO1 scans through the samples, set the scan range/speed and grain position modulation via VEL with the assigned Macros (linked to the QCs on layer level), shorten grain length and randomize grain position with the „Nervousness" control, a switch toggles between re-triggering and free running LFO, add tempo-synced, triplet-based amplitude modulation with the assigned control. MW detunes the grains, QC1 introduces filter modulation, with QC1 engaged, QC2 enables filter morphing via filter envelope (dual morph filter), QC3 controls filter modulation speed, QC4/5 control attack release time. More Macros are installed for controlling phaser/chorus/delay/reverb FX.
Wood Plucker	Guitar/Plucked Ethnic	WT pluck synth using 2 WTs extracted from Angkelung accents. QC1 dials in formant/filter offset modulation via free-running, tempo-synced LFO1, QC2 increases filter resonance (dial hard right for filter sweep effects), QC3 adds distortion, MW increases unison detune. The Macros in the interface let you control the volume of each WT oscillator, switches and knobs are installed for engaging/controlling envelope shaper/amp sim/convolution reverb/delay/Maximizer.

Now please enjoy the sounds and let yourself be inspired by them.

Simon Stockhausen, June 15th, 2017