OneTrick CRYPTID

User Guide

VERSION 1.0.2

Created by Punk Labs

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Introduction

What is OneTrick CYRPTID

OneTrick CRYPTID is a fantasy FM drum synthesizer plugin that reimagines the 808 using only sounds from the DX7. Each of the 808's original voices, and some new additions, are represented by their own DX7 emulator and patch.

Features

- 18 emulated DX7 sounds
- Multi-out or stereo
- Greyhole reverb
- Tanh saturation
- Chromatic MIDI channels
- Nondestructive modulation (CLAP)
- All parameters are automatable
- No telemetry or analytics
- No DRM
- Open source to inspect, learn from, adapt, and improve

Available Plugin Formats

CLAP, VST3, and Audio Unit

Supported Platforms

Linux with glibc 2.31 or later (x86_64), Windows 10 or later (x64), and macOS 10.13 or later (Universal). OpenGL 2.0 or above required for all platforms.

About Open Source

OneTrick CRYPTID's source code is available under a GPLv3 (or later) license for anyone to inspect, adapt, learn from, and improve. We've all had an app we rely on become outdated, incompatible, or move in a direction we don't like; by releasing the source code, we hope to protect users from these types of situations, and provide a guaranteed availability long after regular development has ceased. We believe that everyone benefits when users have control over their software.

Who is Punk Labs

Punk Labs is run entirely by just two people, Oren Kurtz and Tara Bellafiore. We've been designing software, web projects, video games, and writing music professionally since 2005. Our journey has been long, and we've managed to remain independent. We sincerely hope you enjoy our creation and find it useful.

Getting Started

Installing

There is an assisted installer available for each platform. After downloading, run and follow the on-screen instructions. By default installation will be in the current user's data folder for the corresponding plugin format. As an alternative, an archive is available for manual installation. Your DAW/Host might need to scan for new/updated plugins once installation is completed. Please consult your DAW/Host's documentation for details. The following directories are used:

		User	System
Linux	CLAP	~/.clap/	/usr/lib/clap/
	VST3	~/.vst3/	/usr/lib/vst3/
	Documentation	~/.local/share/doc/onetrickcryptid/	/usr/share/doc/onetrickcryptid/
	Uninstaller	~/.local/share/onetrickcryptid/Install Data/	/opt/onetrickcryptid/Install Data/
Windows	CLAP	%LOCALAPPDATA%\Programs\Common\CLAP\	%COMMONPROGRAMFILES%\CLAP\
	VST3	%LOCALAPPDATA%\Programs\Common\VST3\	%COMMONPROGRAMFILES%\VST3\
	Documentation	%USERPROFILE\Documents\	%PROGRAMFILES%\PunkLabs\OneTrick CRYPTID\
	Uninstaller	%LOCALAPPDATA%\Programs\PunkLabs\OneTrick CRYPTID\Install Data\	%PROGRAMFILES%\PunkLabs\OneTrick CRYTPID\Install Data\
macOS	Audio Unit	~/Library/Audio/Plug-Ins/Components/	/Library/Audio/Plug-Ins/Components/
	CLAP	~/Library/Audio/Plug-Ins/CLAP/	/Library/Audio/Plug-Ins/CLAP/
	VST3	~/Library/Audio/Plug-Ins/VST3/	/Library/Audio/Plug-Ins/VST3/
	Documentation	~/Documents/	/Library/Application Support/com.PunkLabs.OneTrick-CRYPTID/

Tip: On Windows, you can paste a directory listed with the environment variable (ex. %LOCALAPPDATA%) into the File Explorer address bar to be taken to that location. On macOS you can paste the directory listed into "Go to Folder…" located in the Finder, "Go" menu.

Basic Navigation

There are three types of controls: knobs, faders, and switches. Each control can be clicked and dragged to modify its parameter. Holding the Shift key on your keyboard while dragging allows for finer control. Single clicking on a switch will increment its value by one. Parameter values are displayed while hovering your mouse cursor over a control. To reset any control hold the Control key on your keyboard and either single click or hit Enter/Return, alternatively you can double click without holding any modifier keys.

The interface is also fully keyboard navigable. Tab will focus on the next control, while holding Shift and hitting Tab will focus on the previous control. You can also navigate using Arrows. Enter/Return or Space will activate a preset or buttons. Holding Control while using the Arrows will adjust a parameter's value. Holding Control and Shift while using Arrows will allow for finer adjustments.

Audio Bus Layouts

There are two supported layouts, Stereo and Multi-Out Stereo. Consult your DAW/Host's documentation for selecting the layout.

Stereo:
Provides a main stereo output bus with all processing applied.

Multi-Out Stereo:
Provides a main stereo output bus with all processing applied, as well as stereo auxiliary buses for processing each kit piece separately.

Chromatic MIDI Channels

Normally the entire drum kit is played on a single MIDI channel (1 or 10) with the voices spread out across the keyboard. For additional control, each voice has also been assigned a unique MIDI channel, allowing you to play that voice chromatically. Please see the ***Chromatic MIDI Map*** for details.

Overview

Tip: You can click on the logo to view the version number and credits.

Voice Controls

Each voice has a column of controls that configure its parameters. The label at the top will depend on the selected *Voice*.

Gain: Adjusts the volume in decibels.

Pan: Fades the voice to the left or right of stereo audio channels.

Reverb: Controls the amount sent to the *Reverb* bus.

Tune: Changes the pitch of the voice.

Alt Tune: Transposes the note when you hit the alternate MIDI trigger for Toms and Cowbell voices. Please refer to the *MIDI Map*.

Filter: Controls the cutoff and resonance of a Moog style ladder lowpass filter.

Attack: The time it takes for the voice to fade in. The actual time this takes can vary depending on the *Voice* selected.

Decay: The time it takes for the voice to fade out. The actual time this takes can vary depending on the *Voice* selected.

Snappy: Controls the amount of transient/snare relative to the rest of the sound.

Thumpy: Controls the amount of transient/thump relative to the rest of the sound.

Voice: Selects the overall timbre of the sound by swapping out the underlying DX7 parameters. For a full list of available sounds, please see the *MIDI Map.*

Reverb Controls

Controls the *Reverb* bus, which comes in the form of "Greyhole" inspired by a classic of a similar name.

Size: Controls the relative "room size".

Diff: Controls the diffusion. Lower values behave more like an echo. Higher values produce a washed out sound.

Damp: Controls the damping of higher frequencies as the reverb decays.

Gate: Controls the cutoff in decibels before the reverb is silenced. Good for big reverb with a short tail.

Amount: Controls the amount sent to the *Global* output.

Global Controls

These controls configure parameters that apply to all voices.

Velocity: Adjusts the global amount of velocity sensitivity allowed before any processing.

Saturation: Introduces harmonic distortion to the final output using a tanh waveshaper.

Volume: Adjusts final output volume without introducing any additional signal color.

MIDI Map

Voice	MIDI Note	MIDI Note (Alt Tune)
Kick	C2 / B1	
Snare	D2 / E2	
Rimshot / Claves	C#2	
Clap / Maraca	D#2	
Low Tom / Conga / Bongo / Log	F2	G2
Mid Tom / Conga / Bongo / Log	A2	B2
High Tom / Conga / Bongo / Log	C3	D3
Closed Hi-hat	F#2	
Hi-hat Choke	G#2	
Open Hi-hat	A#2	
Cymbal / Gong / Reverse Cymbal*	C#3	
Cymbal Choke	D#3	
Cowbell / Wood Block / Whistle*	F#3	G#3

Reverse Cymbal and Whistle respond to NOTE OFF

Chromatic MIDI Map

Voice	MIDI Channel
Full Kit	1 or 10
Kick	2
Snare	3
Rimshot / Claves	4
Clap / Maraca	5
Low Tom / Conga / Bongo / Log	6
Mid Tom / Conga / Bongo / Log	7
High Tom / Conga / Bongo / Log	8
Closed Hi-hat	9
Open Hi-hat	11
Cymbal / Gong / Reverse Cymbal	12
Cowbell / Wood Block / Whistle	13

Multi-Out Channel Map

Bus	Channels
Main Out*	0, 1
Kick	2, 3
Snare	4, 5
Rimshot / Claves	6, 7
Clap / Maraca	8, 9
Low Tom / Conga / Bongo / Log	10, 11
Mid Tom / Conga / Bongo / Log	12, 13
High Tom / Conga / Bongo / Log	14, 15
Closed Hi-hat	16, 17
Open Hi-hat	18, 19
Cymbal / Gong / Reverse Cymbal	20, 21
Cowbell / Wood Block / Whistle	22, 23

* *Main bus has Reverb and Saturation applied, whereas auxiliary buses do not.*

Changelog

1.0.2 (July 9, 2024)

Added:

- Fully keyboard navigable

Changed:

- Updated NIH-plug and dependencies
- Updated Audio Unit Wrapper (vst3sdk 3.7.11)
- Using Qt Installer Framework for Windows and Linux installers (QtIFW 4.6.1)

Fixed:

- Potential crash on Linux caused by OpenGL/window multithreading
- Deserialization issue when restoring sessions

1.0.1 (June 7, 2023)

Changed:

- Added headers to patch .lib sources
- Updated NIH-plug and dependencies
- Updated Audio Unit Wrapper (Steinberg VST3 SDK), no longer requires our fixes

Fixed:

- Saturation caused clicking artifacts
- Knob labels displayed used inconsistent precision

Removed:

- DSP had unused branches

1.0.0 (April 25, 2023)

- Initial Release

Support

Product Home Page: https://punklabs.com/ot-cryptid
E-mail: contact@punklabs.com
News and Updates: https://punklabs.com/blog

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