

# OneTrick CRYPTID



## User Guide

VERSION 1.0.1

Created by Punk Labs

<https://punklabs.com/ot-cryptid>



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# Introduction

## What is OneTrick CRYPTID

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
- DRM free
- 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 (64bit, M1/M2)

## 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 We've all had an app we rely on become outdated, incompatible, or move in a direction we don't like; by releasing the source code, we hope to protect users from these types of situations, and provide a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.

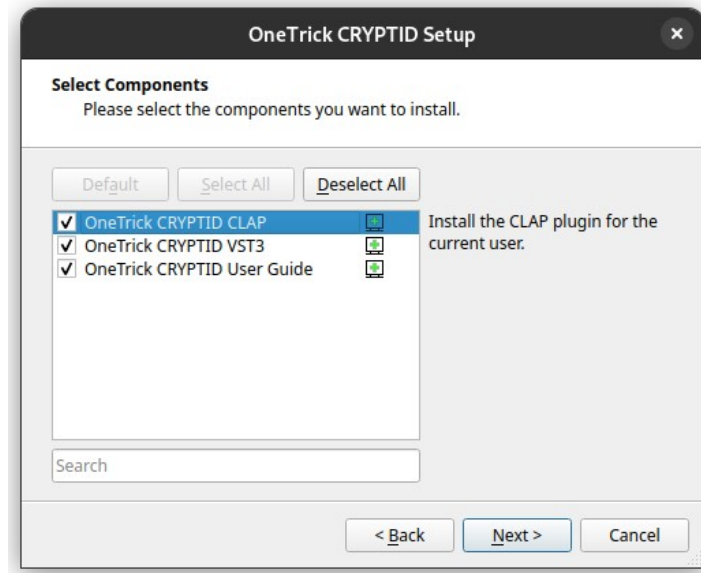
## **Who is Punk Labs**

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

### Using the Installer



There is a visual installer available for each platform. After downloading, run and follow the on-screen instructions. Your DAW/Host might need to scan for new/updated plugins once the installer is finished. Please consult your DAW/Host’s documentation for details.

### Removing

It might be necessary to uninstall the plugin before downgrading.

#### Linux

1. Make sure any DAW/Host is closed
2. Navigate in your file browser to the location you chose to install OneTrick CRYPTID.  
(Default location: ~/.local/share/punklabs/OneTrick CRYPTID)
3. Run “Uninstaller” and follow the on screen instructions.

#### Windows

1. Make sure any DAW/Host is closed
2. Go to "Add or Remove programs"
3. In the "Apps & features" section Use the "Search this list" function to search for "OneTrick CRYPTID".
4. Click on "OneTrick CRYPTID" and hit the "Uninstall" button.

#### macOS

1. Make sure any DAW/Host is closed
2. Simply delete the plugin from the directory you installed to. The default “Current User” directories can be found in the appropriate section in *Using the Archive*.

## Using the Archive

This is an alternative method to installing OneTrick CRYPTID. After downloading the plugin archive, extract the contents and move each plugin to the appropriate folder. You may need to "Show Hidden Files" to see these folders in your file browser. Once this is done, your DAW/Host should be able to find them, although you may need to scan for updated plugins. Please consult your DAW/Host's documentation for details.

### Linux

For CLAP move "OneTrick CRYPTID.clap" to one of the following folders:

*Current User:*           ~/clap/  
*System Wide:*           /usr/lib/clap/  
                              (alternatively /usr/local/lib/clap/)

VST3 requires the the folder structure to be in tact. Move the "OneTrick CRYPTID.vst3" folder to one of the following locations:

*Current User:*           ~/vst3/  
*System Wide:*           /usr/lib/vst3/  
                              (alternatively /usr/local/lib/vst3/)

### Windows

You can copy the location into File Explorer's address bar.

For CLAP move "OneTrick CRYPTID.clap" to one of the following folders:

*Current User:*           %LOCALAPPDATA%\Programs\Common\CLAP\  
*System Wide:*           %COMMONPROGRAMFILES%\CLAP\

For VST3 move "OneTrick CRYPTID.vst3" to one of the following folders:

*Current User:*           %LOCALAPPDATA%\Programs\Common\VST3\  
*System Wide:*           %COMMONPROGRAMFILES%\VST3\

## **macOS**

You can copy the location and past it into “Go to Folder...” located in the Finder, “Go” menu.

For Audio Units (AU) move “OneTrick CRYPTID.component” to one of the following folders:

*Current User:*           ~/Library/Audio/Plug-ins/Components/  
*System Wide:*         /Library/Audio/Plug-ins/Components/

For CLAP move “OneTrick CRYPTID.clap” to one of the following folders:

*Current User:*           ~/Library/Audio/Plug-ins/CLAP/  
*System Wide:*         /Library/Audio/Plug-ins/CLAP/

For VST3 move “OneTrick CRYPTID.vst3” to one of the following folders:

*Current User:*           ~/Library/Audio/Plug-ins/VST3/  
*System Wide:*         /Library/Audio/Plug-ins/VST3/

# Using OneTrick CRYPTID

## Overview



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 single click, or alternatively double click.





## 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 **Full Kit 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 **Full Kit 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.



## Multi-Out Buses

Provides auxiliary buses for processing each kit piece separately in your DAW. Each bus is stereo. Consult your DAW/Host’s documentation for setting this up. Please see **Multi-Out Channel Map** for details.

## 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.

## Full Kit 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

<b>Bus</b>	<b>Channels</b>
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

## 1.0.1 (June 7, 2023)

- Fixed: Saturation caused clicking artifacts
- Fixed: Knob labels displayed used inconsistent precision
- Optimized: DSP had unused branches
- License: Added headers to patch .lib sources
- Updated: Nih-plugin and dependencies
- Updated: Audio Unit Wrapper (Steinberg VST3 SDK)
- Documentation: Added Multi-Out Bus information and Channel Map

## 1.0.0 (April 25, 2023)

- Initial Release

# Notices

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