

OneTrick CHONK

User Guide



Version 1.0.0
Created by Punk Labs

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Table of Contents

Introduction.....	4
What is OneTrick CHONK.....	4
Features.....	4
Available Plugin Formats.....	4
Supported Platforms.....	4
About Open Source.....	4
Who is Punk Labs.....	4
Getting Started.....	5
Installing.....	5
Basic Navigation.....	6
Audio Bus Layouts.....	6
Playing.....	6
Overview.....	7
Mix.....	7
Bass.....	7
MIDI.....	7
Articulation Visuals.....	8
EQ.....	8
Preset Browser.....	9
Changelog.....	10
Appendix A: MIDI and Articulation Maps.....	11
Appendix B: Licenses.....	12

Introduction

What is OneTrick CHONK

A physically modeled electric bass monosynth that produces a classic sound perfect for a wide variety of musical genres. It's powered by digital waveguide synthesis to simulate the vibrations of a string. Different play styles like muting, fingering, picking, or slap can be achieved with articulations.

Features

- 10 factory presets
- Articulations: mute, finger, pick, slap, legato, and slide up/down
- Aftertouch pitch bend
- Preset browser with tags and editing
- Pitch and mod wheel support
- Nondestructive modulation (CLAP only)
- All parameters 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 is required for all platforms.

About Open Source

OneTrick CHONK'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 We've all had an app we rely on become outdated, incompatible, or move in a direction we don't like; by releasing the source code, we hope to protect users from these types of situations, and provide a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. Your DAW/Host might need to scan for new/updated plugins once installation is completed. Please consult your DAW/Host's documentation for details. For manually installing plugins the following directories are used:

		User	System
Linux	CLAP	~/.clap/	/usr/lib/clap/
	VST3	~/.vst3/	/usr/lib/vst3/
	Documentation	~/.local/share/doc/onetrickchonk/	/usr/share/doc/onetrickchonk/
	Presets	~/.local/share/onetrickchonk/Presets	
	Uninstaller	~/.local/share/onetrickchonk/Install Data/	/opt/onetrickchonk/Install Data/
Windows	CLAP	%LOCALAPPDATA%\Programs\Common\CLAP\	%COMMONPROGRAMFILES%\CLAP\
	VST3	%LOCALAPPDATA%\Programs\Common\VST3\	%COMMONPROGRAMFILES%\VST3\
	Documentation	%USERPROFILE%\Documents\	%PROGRAMFILES%\PunkLabs\OneTrick CHONK\
	Presets	%LOCALAPPDATA%\PunkLabs\OneTrick CHONK\data\Presets\	
	Uninstaller	%LOCALAPPDATA%\Programs\PunkLabs\OneTrick CHONK\Install Data\	%PROGRAMFILES%\PunkLabs\OneTrick CHONK\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/	
	Presets	~/Library/Audio/Presets/Punk Labs/OneTrick CHONK/	

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 is one supported layout providing a main stereo output bus with all processing applied.

Playing

There are a number of ways to control the sound of the bass dynamically while playing.

Articulations:

Keyswitches are supported for a number of articulations. Please see the ***Articulation Map*** for details.

Velocity:

Playing a note at 85% velocity or higher will result in a slap articulation.

Aftertouch:

Pressure on a key being held will result in a slight upward pitch bend, useful for vibrato. Aftertouch needs to be supported by your MIDI keyboard and DAW/Host.

Overview



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

The following is a breakdown of each control and how it shapes the sound of the bass.

Mix

The overall volume, panning and saturation.

Gain: Adjusts the volume in decibels.

Saturation: The amount of saturation in percent.

Pan: The left/right panning.

Bass

The characteristics of the bass.

Pickups: Moves the position of the pickup further away from the bridge.

Sustain: Controls the duration of the sound of the string.

Strings: The stiffness/brightness of the string simulation.

Strike: How hard the string is plucked. Low values sound like fingering and higher sound like slap.

Thump: Adjusts the amount of thump a finger produces plucking a string.

Tone: Adjusts the brightness of the bass output, like a typical bass tone knob.

MIDI

Sensitivity, Aftertouch, and pitch wheel controls.

Sensitivity: The amount of velocity sensitivity.

Tune: Fine tunes the instrument in cents.

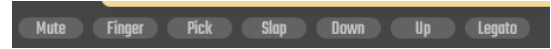
Aftertouch: The range of Aftertouch pitch bend in semitones.

Pitch Wheel: The range of the pitch wheel in semitones.

Articulation Visuals

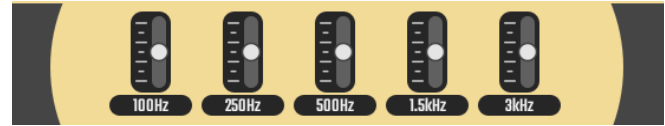
Shows which articulation keys are being held and affecting the note being played. There is from left to right: Mute,

Finger, Pick, Slap, Slide Down, Slide Up, and Legato. Please see the *Articulation Map* for details.



EQ

Graphic EQ applied near the end of the signal chain.



100Hz: Third order low shelf filter.

250Hz: Peak filter with a 0.71 *Q* factor.

500Hz: Peak filter with a 0.71 *Q* factor.

1.5kHz: Peak filter with a 0.71 *Q* factor.

3kHz: Third order high shelf filter.

Preset Browser

Displays a list of the Factory and User presets. Click on a preset to load it, or browse through them with the Arrow keys and press Enter. Selecting a preset will bring up an info pane with details. The controls are listed from left to right.

Save: Displays the *save dialog* to save the current settings as a user preset.

Refresh: Refreshes the list of installed presets. Press this if you've added any presets while the plugin was open.

Open: Opens the preset folder with your system file browser.

Search: Filters the list of presets to match your query. You can search for title, description, author, or tags. If you search for tags you must type the full tag, but other fields use a substring search.



Presets are stored as simple plain-text JSON files with a .preset extension. This makes it easy to edit them in a text editor, or manipulate with a language like python. Install new presets by copying them into the presets folder, or delete existing ones. You can find the presets folder by hitting *open* in the *preset browser*, or by referencing the directories table in the *Getting Started, Installing* section.

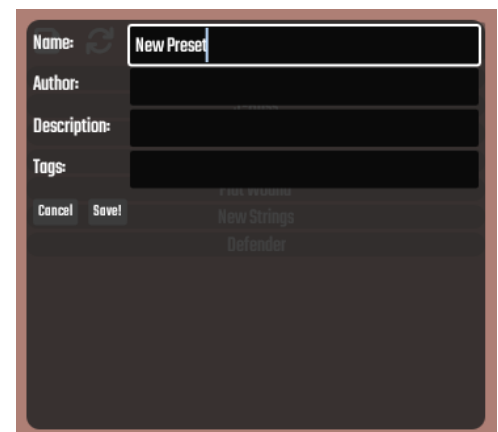
Save Dialog

Name: A title for your preset, this will show up in the list of presets.

Author: Your name, useful if you decide to distribute your presets. This will show up in the info popup when selecting a preset.

Description: A brief description of your preset. This will show up in the info popup when selecting a preset.

Tags: A space-separated list of tags. These are used when searching. This will show up in the info popup when selecting a preset.



Changelog

1.0.0 (November 19, 2024)

- Initial release

Appendix A: MIDI and Articulation Maps

MIDI Map

Effect	Control
Pitch	Pitch Wheel
Dampening	Mod Wheel (CC 1)
Legato	Legato (CC 68)

Articulation Map

Effect	Note
Mute	C2
Slide Down*	C#2
Finger	D2
Slide Up*	D#2
Pick	E2
Slap	F2
Legato	F#2

** Only apply to a single note, and the speed is controlled by velocity.*

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