

*Build for the KVRAudio.com software competition.  
Without the organisers, Choralozoide probably wouldn't exist.  
Many thanks!*

Numerikart.

# CHORALOZOIDE V1.0



## MENU:

1-INSTALLATION

2-OVERVIEW

3-FEATURES

4-HOW IT WORKS?

5-PANEL CONTROL

6-HOW TO START A NEW PATCH?

7-CREDITS

8-LICENSE

## 1- INSTALLATION

Put the VST plugin in your favorite VST plugin folder.  
Open the plugin inside your favorite host sequencer

## 2- OVERVIEW

Choralzoide is an “harmonizer”, a pitch shifter, an autotuner, a voice doubler and an “effectizer”, build for monophonic instruments, especially for voices.  
With Choralzoide, you can obtain realistic choir effects and also completely unusual sounds, crazy effects, from space’s choir, to mickey’s voice.

This plugin is for windows operating systems only.

## 3- FEATURES

- Autotuner
- 3 voices doubler with pitch shifting and a kind of formant preserving.
- Spectral reverb
- Joystick pad control for the special FX filter/formant.
- Fully automatable
- And probably more sooner!

## 4-HOW IT WORKS?

Choralzoide takes a monophonic signal input and convert it into choir effects.

## 5- PANEL CONTROL



1,2 and 3 : input signal is splitting into three voice number.

**Tune On/Off switch:** activates autotune for selected voice number ( see “autotuner” section ( 1\*)).

**Pitch:** Pitch off the current voice (from -12 to +12)

**Color:** kind of formant preserving.

**Depth:** increase the intensity of color effect

**Vibrato:** vibrato!

**Speed:** speed of the vibrato

**Pan, Level and Mute:** as usual!

## AUTOTUNER



By clicking on the piano, you can tell to choralozoid how to tune the voices. For example, if you increase the note C by “+ 1”, and if you activates the *On/Off tune* ( 1\*) switch for voice one, Choralozoid will “retune” voice 1 into C# if you sing a C.

*Note: autotune don't means that you can sing out of tune. For realistic choir effects, you have to be in perfect tune to avoid strange vibrato. However, it can be an interesting effect in others context.*

## JOY PAD CONTROL

Harmonizer



The joy pad control is a sculpting effect that change the sound sending by “Harmonizer” before sending it to the reverb.

It's also a filter manipulator if you activates the FX filter switch (see below (2\*)). In this case, a band pass filter is activates and you can control his cut off freq (X) and his Q ( Y). Be careful at your ears and your speakers if you push Y axe to high!

## SPECTRAL REVERB



The spectral effect is divided into two sections: the “reZonator” and the reverb. The “reZonator” sculpt “Harmonizer” signals before sending it to the reverb.

**Color:** tone of the “reZonator” effect.

**Mod:** modulate “reZonator”

**Damp:** cut high frequency of the late reflection.

**Size:** size of the reverberation.

**Width:** width of the reverb.

**Mix:** mix between “reZonator” (left) and the reverb (right).

## GLOBAL PARAMETERS



**Smooth tune:** smooth the autotuner detection.

Note that the depth knob is always controlling the color/formant detection even if “Smooth Tune” is set to off. If it is set to On, the depth control autotune and formant parameters.

**De-Esser:** Not really a de-esser. Remove some bad noise. It’s a part of the pitch detection engine.

**Hp Filter:** using the reverb section can cause extreme low freq if you use a microphone without headphone (feedback effects).

You can remove them with this, and remove high freq feedback with the damp knob.

**Fx Mix:** Mix between “Harmonizer” (left) and the “Spectral Reverb” (right).

**Fx Filter:** as explain above (2\*)

## 6- HOW TO START A NEW PATCH?

Each time you start a new patch, it's better to listen one voice at a time. Use the Mute's Button for this.

It's also better to turn off effects and just listen the Harmonizer. Use the FX mix knob for this.

Then, you can adjust your settings: color, intensity and vibrato for each voices.

Once you have adjust the control of the tree voices, you can send the result in the ReZonator: turn the FX Mix knob on the right and the spectral Mix knob on the left. Adjust the Color/ Mod knobs and the Joy pad control too.

Mix the result in the reverb, and listen what you get!

Once you have done this, adjust the FX Mix.

Enjoy!

## 7-----CREDITS-----

This plugin contains modules coded by Dave Haupt, Chris Kerry and Ralph Gonzalez.  
Some controls elements created by Vera Kinter. Thanks to them .

Concept, design, development, presets and testing by the Numerikart.

## 8-----LICENSE-----

### Choralozoide LICENSE Agreement

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