

INSTRUCTIONS MANUAL

Vendaval is an audio synthesis algorithm written in Csound with the Cabbage framework, developed by Caio M. Jiacomini.

If you have any questions after reading this, feel free to contact me at caiojmini@gmail.com. You can also access the Github repository for the source code here: <https://github.com/CaioMJ/Vendaval>

Vendaval is made by six components:

GLOBAL:

Controls attributes that govern the whole plugin.

It's important to note that the values for the ADSR envelope must be set before a MIDI note on message triggers the instrument. If you change the decay, sustain, or release value after the instrument is triggered, the new values will not be applied, therefore, **you must set all your envelope values as you want them before triggering a MIDI note on message.**

WOOING:

Produces filtered noise to simulate the wind whistling sound. Pink noise is being filtered with a bandpass filter with its center frequency being modulated to random values at random times.

BACKGROUND:

Works almost identical to the wooing component, except it is limited to a larger bandwidth range and has a more limited frequency range.

GUSTS:

Also works similarly to the wooing and background components, the key difference being that the center frequency of the bandpass filter is also modulated by an LFO, providing a more undulating sound.

RUMBLE:

Produces low-pass filtered noise. Instead of adjusting the center frequency of a bandpass, there's a parameter to adjust the cutoff frequency of the low-pass filter, which is not being randomly modulated like the other filters.

REVERB:

Applies reverb to all other components.

PARAMETERS:

Volume: controls the volume of the individual component

Frequency/Cutoff: sets the center frequency of the bandpass filter or the cutoff frequency of the low pass filter

Range: controls the frequency range that the bandpass filter can be modulated by both above and below the center frequency. Acts as a multiplier to a hard coded number

Rate: controls how fast the bandpass filter is modulated. Act as a multiplier to a hard coded range of time values

Bandwidth: controls the bandwidth of the bandpass filter.

Resonance: controls the filter resonance

Distortion: controls distortion on the Rumble component

Attack, Decay, Sustain, Release: sets the amplitude envelope for all components

Mix: sets the dry/wet reverb mix

Size: sets the size of the reverb effect

PRESETS

Click the “Save” button to change the current configuration as a preset