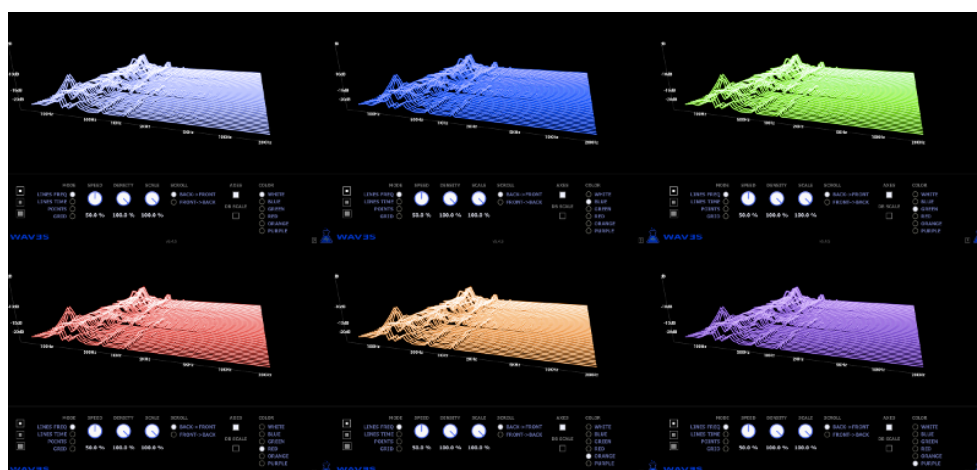
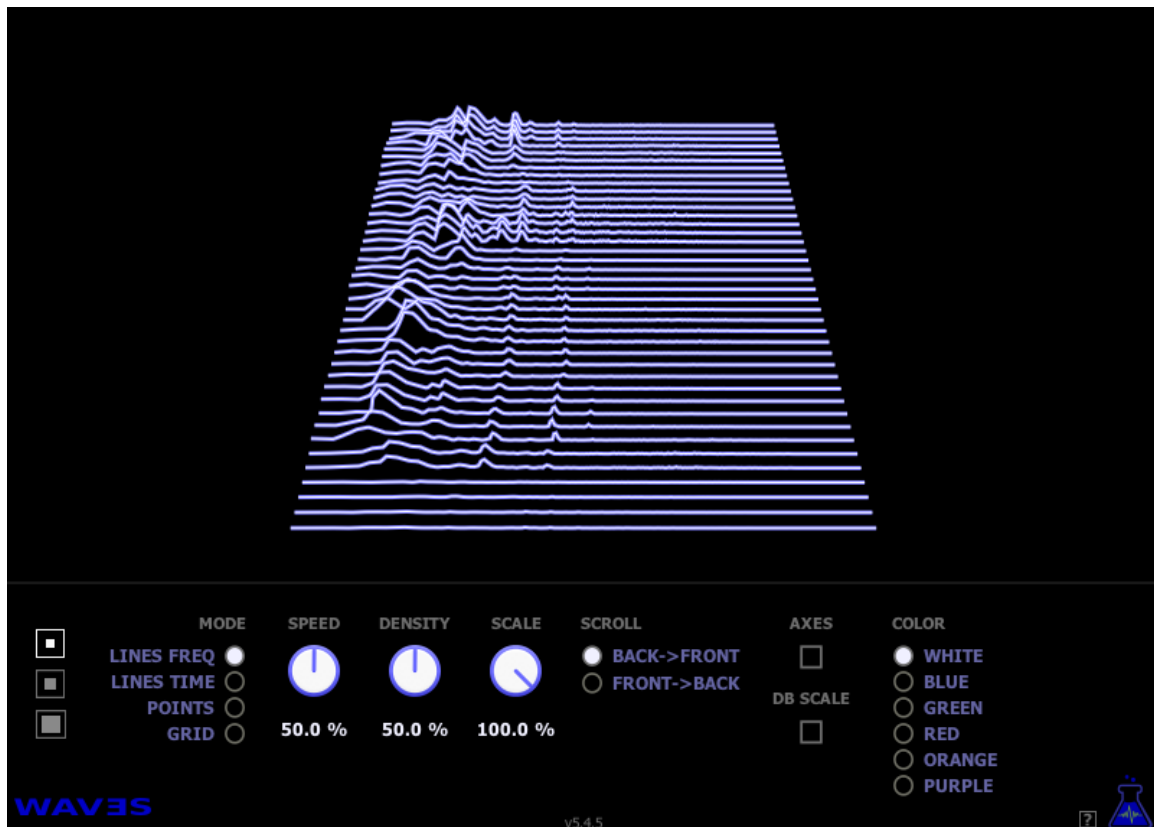


WAVES

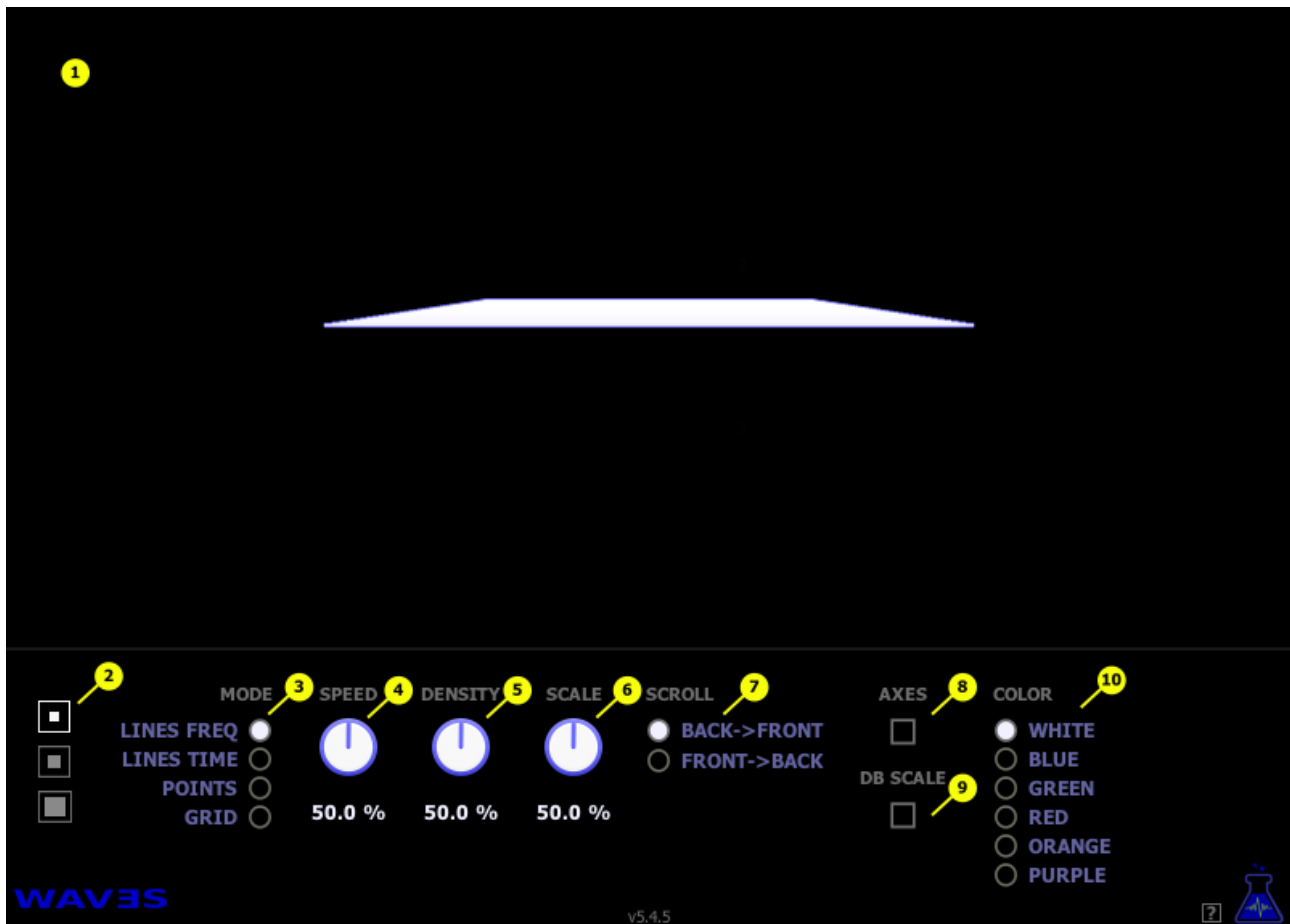


DESCRIPTION

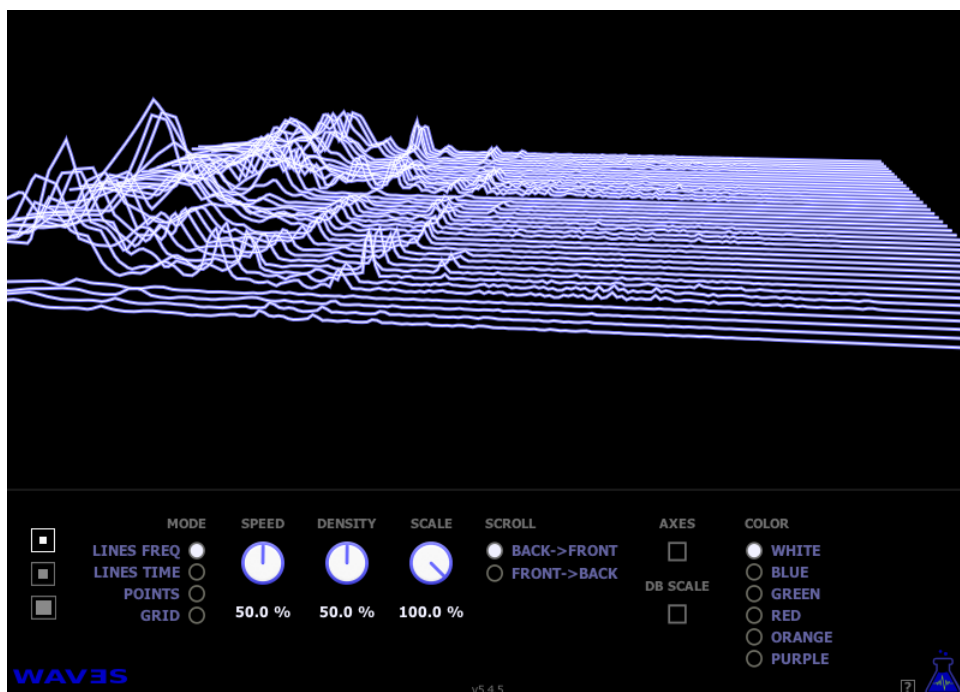
BlueLab **Wav3s** is a plugin that simply displays the sound in 3D. Technically, this kind of view is called a **waterfall plot**. Several display modes are available, as well as parameters to adjust the display. The view can be easily manipulated using the mouse or the trackpad.



USAGE



The **3D VIEW (1)** display the sound in 3D, as lines or points. Press the **left mouse button** and drag the mouse horizontally or vertically to rotate the view (or use the trackpad). To zoom to the view, use **mouse + alt** and drag vertically, or use the **mouse wheel**, or use the trackpad **zoom gesture**. To reset the **3D VIEW (1)**, use mouse or trackpad **double-click**.



The **GUI SIZE (2)** parameter is used to change the size of the plugin window (standard, medium or large).

The **MODE (3)** parameter is used to change the display mode:

- **LINES FREQ:** display lines. Each line corresponds to a time step. The frequencies vary over a given line, with the lowest frequencies on the left.
- **LINES TIME:** display lines. Each line corresponds to a frequency. The time varies over a given line, with newest time step farther.
- **POINTS:** display points. Each point corresponds to a time step, a frequency, and a sound amplitude.
- **GRID:** display a grid. Each grid node corresponds to a time step, a frequency, and a sound amplitude.

The **SPEED (4)** parameter is used to change the scrolling speed (slower or faster). When changing the scrolling speed, the sound analysis is more or less dense. The amount of sound entering in the plugin is still constant however.

The **DENSITY (5)** parameter changes the density of lines or points displayed.

NOTE: The plugin consumes more CPU resource when the **DENSITY (5)** is high.

The **SCALE (6)** parameter changes the scale of the lines or the points. For a given sound level for a frequency and a time step (for example -6dB), the corresponding part of the line or point will be displayed "higher" on the grid if the scale is increased.

The **SCROLL (7)** parameter sets the time scroll direction: from back to front, or from front to back. For front to back for example, the most recent data will be in front.

The **AXES (8)** parameter shows or hide the frequency and amplitude axes. Each value of the frequency axis corresponds to a frequency on the 3D view. Each value of the amplitude axis corresponds to an amplitude (in dB) on the 3D view.

The **DB SCALE (9)** parameter activates dB scaling for the amplitudes. With dB scaling, this will be possible to display and see easily low amplitude parts of the signal, as with a standard spectrum viewer. When **DB SCALE (9)** parameter is disabled, the scaling is linear, and the high amplitudes are displayed more distinctly.

The **COLOR (10)** parameter changes the color used to display the lines and the points.