



## Richard Rosenman – Lattice V1.1

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Lattice is an extremely efficient procedural particle-based structure generator that works with Adobe Photoshop (or compatible host). It's an innovative tool for illustrators, designers, and digital artists to aid in the creation of generative designs. When paired with traditional designs for commercial use, Lattice provides technical sophistication.

Lattice's primary function is to link particles using the use of lines as well as points. Particles are created by using the shape of a 3D cube, sphere, or cylinder, and then modified by you using the help effectors. affectors. If the particles fall within a certain distance from one another and are in close proximity, they become connected. This simpleness of ordered chaos is what makes content generated from Lattice appealing visually.

Lattice offers a wide range of options to keep your structure looking flawless. The sizes of points and lines can be locked to each other, or completely independent. Point and line transparency can change due to depth, while the transparency of lines can affect length. Please specify the particle size and minimum distance needed for a connection, as in addition to the number of connection connections permitted.

The effectors of Lattice, the core of this plugin are able to create all kinds of dynamic effects like noise scales, turbulences or translations, rotations twists, skews waves, bends, waves, and deletes. When you combine several effectors you can create stunning designs with endless variations. Furthermore, each effector comes with a distinct affective space field so that you can only alter particular parts of the array. The falloff control lets you gently feather the effect, while other options like field inversion and field axis enable infinite fine-tuning of the effect.

The effectors for noise and turbulence have the individual seed value which means you can use an unlimited variety of effects that can be generated. Remove allows you to take away particles from specific regions, creating highly customized structures.

Lattice isn't finished there. It comes with a powerful coloring engine, every particle has the ability to inherit its distinct color depending on its axis of rotation or its position. The coloring engine can dictate only one color, a mixture of two colors within any of the dimensions. It can also be used to determine or distribution of the color spectrum in multiple dimensions and even the colors of an image taken from a source image making it easy to integrate into existing images. Line and point colors can be independently overridden to create an individual color. Line intensity can be calculated from the length of a line, which results in stunning shading.

Interconnecting particles have color that is blended in gradients or averaged to produce more graphic effects.

Lattice also offers a simulated depth of field! It is easy to bring particles into the focus or away from it in the viewing plane. You can adjust the lens to provide an increase or decrease in the field of view, as well as an exaggerated perspective.

Lattice also has the ability to import models from OBJ! This means you can build your own customized 3D model in the program of choice, and then transfer it to Lattice. Once inside, you'll be able to transform, rotate, and translate your model. You can also make use of effectors to alter it the same way you would any other built-in Lattice particle array. Utilizing custom 3D models within Lattice offers endless creative possibilities.

Keep in mind that with the effector field, you have the ability to modify any particular part that you have in the OBJ model including feathering for falloff.

Lattice offers a huge simple and easy-to-use interface that includes all the features you'd like to see. Live status bar displays statistics such as the type of object, the active number of lines and points as well as the number of effectors currently active and frames in a second (FPS) for performance metrics. Every item can be saved and removed at the touch of an icon.

Download Lattice today and test the demonstration. Lattice provides a degree of elegance to your work, making it an



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essential plugin to have for any designer and artist.

Lattice is multi-threaded and capable of utilizing an infinite number of cores to achieve the fastest speed.

Lattice can be used with both eight bits per channel and 16 bits per channel color modes to support professional workflows.



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