

## Frequency Distribution

The purely synthetic aspect of ***Hyperupic*** is its frequency distribution. Currently, there are two frequency distribution schemes:

**Harmonic Series  
Scale**

Which both employ the two parameters:

**Frequency Differential**  
**Frequency Offset**

The harmonic series is specified by:

$$\text{Frequency:}n = [\text{Frequency Offset}] + ( [\text{Frequency Differential}] * n )$$

where n is the pixel offset of either the x or y dimension.

The scale distribution is specified by:

**Frequency:0 = [Frequency Offset]**

**Frequency:n = [Frequency:n-1] \* [Frequency Differential]**

To view a prospective frequency distribution, either load an image, or enter coordinate values in the **x: y:** fields on the ***Hyperupic*** window; enter the appropriate frequency differential and offset values; then depress:

## *Display Frequencies*

I tend to prefer the scale distribution. I have less traditional frequency distribution generators in the works. Also, holler if you want the ability to load your own frequency distribution tables. It is a trivial addition to this system.