

## Dimension Mapping

The current implementation of ***Hyperupic*** can transduce images with eight different dimension mapping schemes:

**X : time**

The x-axis of the image is mapped to the time dimension of the resultant

sound. Time is incremented from left to right. Frequency magnitude is mapped from bottom to top.

**Y : time**

The x-axis of the image is mapped to the time dimension of the resultant sound. Time is incremented from top to bottom. Frequency magnitude is mapped from left to right.

**X : time : retro**

The x-axis of the image is mapped to the time dimension of the resultant sound. Time is incremented from right to left. Frequency magnitude is mapped from bottom to top.

**Y : time : retro**

The y-axis of the image is mapped to the time dimension of the resultant

sound. Time is incremented from bottom to top. Frequency magnitude is mapped left to right.

**X : time : inv**

The x-axis of the image is mapped to the time dimension of the resultant sound. Time is incremented from left to right. Frequency magnitude is mapped from top to bottom.

**Y : time : inv**

The y-axis of the image is mapped to the time dimension of the resultant sound. Time is incremented from top to bottom. Frequency magnitude is mapped right to left.

**X : time : inv : retro**

The x-axis of the image is mapped to the time dimension of the resultant

sound. Time is incremented from right to left. Frequency magnitude is mapped from top to bottom.

**Y : time : inv : retro**

The y-axis of the image is mapped to the time dimension of the resultant sound. Time is incremented from bottom to top. Frequency magnitude is mapped right to left.

