

## Welcome to *Hyperupic*!

***Hyperupic*** is a color image to sound transducer. In other words, ***Hyperupic*** transforms a 24-bit rgb **TIFF** image into a 16-bit sound file using a variety of dimensional mapping schemes. Unfortunately, ***Hyperupic*** transduction is a computationally expensive process. You'll need to hold your horses.

Fortunately this process seems to bear gifts; it has unveiled unique, and coherent sounds from many trial images and it shows promise of being a subtle and potent sound exploration tool.

***Hyperupic*** employs oscillator bank resynthesis to synthesize a sound from a user specified frequency distribution and amplitude information derived from the input **TIFF** image. Unfortunately, to answer a predictable question, this oscillator bank is not implemented using the **NeXT**'s resident 56001 DSP. Volunteers?

***Hyperupic*** can even be used as a (relatively) poor-man's **Upic**: the sound representation system conceived by Greek supercomposer *Iannis Xenakis*. Just launch icon, grab a funky brush pattern and draw a wacky image. Save it as a 24-bit alpha-free image, and load it into ***Hyperupic***. Taste-tee!

What separates ***Hyperupic*** from its \$30,000 cousin is that ***Hyperupic*** can transduce images of trees, Bosnia, or even Elvis. ***Hyperupic*** uses color.

By the way, ***Hyperupic*** is free of copy restrictions; I hate them, but I may have to resort to selling software in the future. For the time being you can trade this software like you would a virtual baseball card. You can even pretend you wrote this software yourself! But if you do this, you might catch a rare strain of

leprosy from a pipe-smoking stranger.

Forward all questions and lucrative compositional commissions to:

**Christopher Penrose**  
**Department of Music**  
**Princeton University**  
**Princeton, NJ 08544**

**[penrose@silvertone.princeton.edu](mailto:penrose@silvertone.princeton.edu)**