Subject: Re: advanced image enhancement Posted by Liam E. Gumley on Mon, 14 Oct 2002 16:51:03 GMT View Forum Message <> Reply to Message

David Oesch wrote:

- > Is there any other possibility to enhance the content of an bytarr
- > image? I tried BYTSCL and HIST_EQUAL, but ?m actually lokking for a Root
- > enhancement, also known as a logarithmic transform, which particularly
- > effective with images whose grey level distribution exhibits right
- > skewness. The root enhancement stretches the dynamic range of the low
- > end of the image while compressing its high end. It tends to lend an
- > overall brightening to the resultant image. Has anyone implemented such
- > an enhancement in IDL?

Here's a simple example of a square root enhancement:

```
a = dist(256)
scale = (a - min(a)) / (max(a) - min(a))
tv, byte(255.0 * scale) ; linear enhancement
tv, byte(255.0 * sqrt(scale)) ; square root enhancement
```

For extra credit, turn this into a function that accepts MIN, MAX, BOTTOM, and NCOLORS keywords.

Cheers, Liam. Practical IDL Programming http://www.gumley.com/