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Subject: Re: advanced image enhancement

Posted by [Liam E. Gumley](#) on Mon, 14 Oct 2002 16:55:40 GMT

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"Liam E. Gumley" wrote:

>  
> David Oesch wrote:  
>> Is there any other possibility to enhance the content of an bytarr  
>> image? I tried BYTSCL and HIST\_EQUAL, but I'm actually looking for a Root  
>> enhancement, also known as a logarithmic transform, which is 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.

I should have checked the User Libraries first:

<http://www.astro.washington.edu/deutsch-bin/getpro/library13.html?SQRTSCL>

Cheers,

Liam.

Practical IDL Programming

<http://www.gumley.com/>

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