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Subject: Re: Function BYTSL

Posted by [marc schellens\[1\]](#) on Tue, 10 Apr 2001 10:08:21 GMT

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Steffen Kernchen wrote:

>  
> Hi...  
>  
> I'm just starting with IDL, so here is my first question: ;-)  
>  
> what function(s) can I use instead of BYTSL?  
> I have an array and I want to transform it to get a better contrast.  
> But I should NOT use BYTSL.... :(  
>  
> bye  
>  
> steffen

Of course you can do by hand something similar what bytscl does:

lets say your array is 'a'

```
minA=min(a,MAX=maxA)
a=a-minA
a=byte(float(a)/maxA*255)
```

(2nd line is 'optional')

but why you should not use bytarr?

Only point I can guess is that you have 8bit color and dont want to use all colors?

In that case you have to find the different used colors in a:

```
h=histogram(a)
wN0=where(h ne 0,nW)
```

replace them:

```
for i=0,nW-1 do begin
  wl=where(a eq wN0[i])
  a[wl]=i
endfor
```

and modify the color table to assign the remaining values to colors 0..255:

TVLCT, R, G, B, /GET

```
R[0:nW-1]=byte(float(indgen(nW))/nW*255)
```

```
G[0:nW-1]=byte(float(indgen(nW))/nW*255)
B[0:nW-1]=byte(float(indgen(nW))/nW*255)
```

TVLCT, R, G, B

then you can plot your image.

Cheers,  
marc

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