
Subject: Re: Function BYTSCL

Posted by [davidf](#) on Wed, 11 Apr 2001 19:32:09 GMT

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Steffen Kernchen (steffen.kernchen@student.uni-magdeburg.de) writes:

>
> what function(s) can I use instead of BYTSCL?
> I have an array and I want to transform it to get a better contrast.
> But I should NOT use BYTSCL.... :(

Alright, enough time has passed that Seffen has probably passed or failed the final. Here is my take on what BYTSCL does:

```
FUNCTION Daves_Bytscl, array, Top=maxVal
minVal = 0.
IF N_Elements(maxVal) EQ 0 THEN maxVal = 255. ELSE maxVal = Float(maxVal)
minVec = Min(array, Max=maxVec)
sf = [((minVal * maxVec)-(maxVal * minVec)) / $
      (maxVec - minVec), (maxVal - minVal) / (maxVec - minVec)]
RETURN, Byte(array*sf[1] + sf[0])
END
```

To test it:

```
IDL> array = Dist(150, 150)
IDL> Window, XSize=450, YSize=150
IDL> TV, array, 0
IDL> TV, Daves_BytScl(array), 1
IDL> TV, BytScl(array), 2
```

Cheers,

David

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David Fanning, Ph.D.

Fanning Software Consulting

Phone: 970-221-0438 E-Mail: davidf@dfanning.com

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