
Subject: Function BYTSCL

Posted by [Steffen Kernchen](#) on Tue, 10 Apr 2001 08:29:32 GMT

[View Forum Message](#) <> [Reply to Message](#)

Hi...

I'm just starting with IDL, so here is my first question: ;-)

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.... :(

bye

steffen

Subject: Re: Function BYTSCL

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

[View Forum Message](#) <> [Reply to Message](#)

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 Steffen 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

--

David Fanning, Ph.D.
Fanning Software Consulting
Phone: 970-221-0438 E-Mail: davidf@dfanning.com
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: Function BYTSCL
Posted by [Steffen Kernchen](#) on Thu, 12 Apr 2001 06:12:30 GMT
[View Forum Message](#) <> [Reply to Message](#)

hi david...

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

no, I'm just here. ;-)
I only had no time to answer. sorry.

this problem is solved! thx to you and all the other, who helped me, especially
Marc Schellens!
but I know, there're many problems, I never dreamed of! *g*
but now I have some time to think about it. next exercise is in 3 weeks.
I hope it is enough time!

cheers,
steffen
