
Subject: ENVI: how to avoid stretching in image displays?

Posted by [wl2776](#) on Mon, 09 Aug 2004 19:03:16 GMT

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Hi all.

I have an image in byte binary format with pixel values ranging from 0 to 104.

And I have a color table specifying colors for each of those 105 values.

These colors are situated in the table in places with numbers 0-104.

So, it is supposed, that displayed pixels will have colors, which numbers equal pixel values.

However, when I try to display image it is displayed with stretch (linear or gaussian or else) and pixels are assigned with another colors, which numbers differing from the pixel values.

How to avoid the stretching?

In other words, how to make ENVI to display pixel, having value 0, with color number 0 from the color table, to display pixel, having value 1, with color number 1 from the color table, etc?

Subject: Re: ENVI: how to avoid stretching in image displays?

Posted by [tianyuf](#) on Tue, 10 Aug 2004 08:25:47 GMT

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The answer is in the ENVI help documents.

If you want to display just this image with raw DN, select [Quick Linear 0-255] from <Display Menu> - <Enhance>. Or you can set the default stretch type in <Preferences> - <Display Default> (% Linear equals 0 means no enhancement).

Tian.

wl2776@yandex.ru (wl) wrote in message
news:<1c9e5a19.0408091103.2598f9e5@posting.google.com>...

> Hi all.

> I have an image in byte binary format with pixel values ranging from 0
> to 104.

> And I have a color table specifying colors for each of those 105
> values.

> These colors are situated in the table in places with numbers 0-104.

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-

Subject: Re: ENVI: how to avoid stretching in image displays?

Posted by [wl2776](#) on Tue, 10 Aug 2004 17:42:51 GMT

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Yes, it works!

Thank you very much.

Subject: Re: ENVI: how to avoid stretching in image displays?

Posted by [adam_e_oconnor](#) on Mon, 16 Aug 2004 15:49:38 GMT

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ENVI's default stretch is 2% Linear, which explains the observed behavior. You can view this setting by selecting "File > Preferences" from the main ENVI menu and selecting the "Display Defaults" tab. If you want to permanently turn off ENVI's automatic stretching you actually should select "Linear Range" and enter "0" in the minimum box on the left and "255" in the maximum box on the right. That way byte values ranging from 0 --> 104 are actually displayed as 0 --> 104. Simply changing the "% Linear" setting to "0.0" will eliminate the 2% saturation, but there is still a linear stretch applied such that 0 --> 104 will be displayed as 0 --> 255, which is not what you want in this case. You can confirm that your data values are being accurately displayed by using the "Tools > Cursor Location/Value..." utility from the menu system within any display window. The "Scrn: R: G: B:" values should match the "Data:" value. Keep in mind that after you make changes to the Preferences you must re-display any images that are already open in order for the changes to take effect.
