
Subject: Re: HSB to RGB?

Posted by [sterner](#) on Tue, 12 Mar 1996 08:00:00 GMT

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

lgao@aol.com (LGAO) writes:

> Does anyone know the equation to convert the color in
> HSB(hue,satiration,brightness) model to the color in RGB(red, green blue)
> model? Is the conversion 1 to 1?

Check the help for the IDL function `color_convert`. One of the conversions it can handle is HSV to RGB, not far from what you need. The online help also gives a useful reference.

Ray Sterner sterner@tesla.jhuapl.edu
The Johns Hopkins University North latitude 39.16 degrees.
Applied Physics Laboratory West longitude 76.90 degrees.
Laurel, MD 20723-6099
WWW Home page: <http://fermi.jhuapl.edu/s1r/people/res/res.html>

Subject: Re: HSB to RGB?

Posted by [hahn](#) on Wed, 13 Mar 1996 08:00:00 GMT

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

lgao@aol.com (LGAO) wrote:

> Hi,

> Does anyone know the equation to convert the color in
> HSB(hue,satiration,brightness) model to the color in RGB(red, green blue)
> model?

If you translate HSB into HLS (Hue, Lightness, Saturation) or HSB (Hue, Saturation, Brightness) you can use the IDL procedure `COLOR_CONVERT` to convert to and from RGB.

Is the conversion 1 to 1?

That depends upon the implementation and the color coordinate system used: RGB is a cube, HSB is a cone and HLS is a double cone (if I don't intermix HSB and HLS).

> Thanks.

> Li
Norbert Hahn
