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Subject: Re: RGB values for visible spectrum?

Posted by [kbowman](#) on Mon, 21 Feb 2000 08:00:00 GMT

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In article <88rkt3\$f2r\$1@news.lth.se>, Struan Gray  
<struan.gray@sljus.lu.se> wrote:

> Does anyone have a set of RGB values matched to the colours of the  
> visible spectrum? It doesn't have to be tied to a well-defined colour  
> space, although that would be nice. I want to construct a 'photon  
> energy' object that can convert between different units (cm-1, eV, nm,  
> kJmol) and give the user an RGB triple that is a reasonably close  
> match to the specified wavelength.

As a start you can do something like:

```
n = 200L                               ;Number of colors
h = 240.0*FINDGEN(n)/n                 ;Generate rainbow in hsv space
s = REPLICATE(1.0, n)                 ;Saturation = 1
v = REPLICATE(1.0, n)                 ;Value = 1
COLOR_CONVERT, h, s, v, r, g, b, /HSV_RGB ;Convert to RGB
```

```
TV, REPLICATE(1.0, n) # r, 0, 0, 1    ;Load red 2-D image
TV, REPLICATE(1.0, n) # g, 0, 0, 2    ;Load green 2-D image
TV, REPLICATE(1.0, n) # b, 0, 0, 3    ;Load blue 2-D image
```

Ken

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Subject: Re: RGB values for visible spectrum?

Posted by [Struan Gray](#) on Tue, 22 Feb 2000 08:00:00 GMT

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Kenneth P. Bowman, [kbowman@null.net](mailto:kbowman@null.net) writes:

> I wrote:  
>>  
>> Does anyone have a set of RGB values matched to  
>> the colours of the visible spectrum?  
>  
> As a start you can do something like:  
>  
> [ramp the hue coordinate in a HSL array]

That's where I am at present. My next step will be to scan one of those wallchart spectra, but I was hoping someone would have something more respectable. Thanks for the tip.

