
Subject: Re: Newbie question (w/colorful points)...
Posted by [randystack](#) on Wed, 17 Jan 2001 22:13:21 GMT
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<< As to the fastest way to create the array, I'm
not sure I can decipher how a 8192 vector
relates to a 512x512 array. >>

The 8192-element vector just contains the coordinates that I need to plot.
Basically...

xy(n,0)=x coordinate for point n (values 0-511)
xy(n,1)=y coordinate for point n (values 0-511)
hls(n,0)=hue for point n
hls(n,1)=luminance for point n
hls(n,2)=saturation for point n

Without IDL, I'd normally go something like...

```
declare mat(512,512,3)
loop n from 0 to 8191
  mat(xy(n,0),xy(n,1),0)=hls(n,0)
  mat(xy(n,0),xy(n,1),1)=hls(n,1)
  mat(xy(n,0),xy(n,1),2)=hls(n,2)
end loop
```

...then convert the resulting 512x512 HLS matrix mat() to RGB for display. Was
just looking for a more expedient way to handle this in IDL rather than
looping.

Thanks,
~Randy
