

---

Subject: color by variable interpolate?

Posted by [daisybug1](#) on Tue, 12 Sep 2006 13:02:36 GMT

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

---

Hello all,

I have been trying to wrap my mind around how to make this work, but have not figured it out and hoped that someone could give me a little help.

I'm trying to color some data by temperature...

```
x  y  t
5  8  -2.5
6  6  -1.3
2  4  -5.3
10 6  -3.5
```

I'm using the rainbow color table and want the warmest value -1.3 to correspond to the color 255 (red) and the coldest value -5.3 to correspond to the color 12 (dark purple)

```
varyc=-255./(abs(max(t)-min(t))
plot,x,y,/nodata
```

```
for i=0, n_elements(x)-1 do begin
  plots,x[i],y[i],psym=sym(3),color=T[i]*(varyc)
endfor
```

That's what I have so far, but it doesn't allow me to start the lower values exactly at the number I want for example in this case 12, and skews the data so that the temperatures don't fully encompass the temperature scale. I'm not even sure if this is the best way to do this (a for loop). I tried to pass the temperature array as a color, but I'm really missing the point of starting the lowest value at some low color number and the highest at 255. I have an incling that it may have to do with interpolation. Any help would be greatly appreciated! Thank you everyone!

Jon