
Subject: Am I using FSC_colorbar correctly?

Posted by [rchughes](#) on Thu, 11 Nov 2010 16:12:57 GMT

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Hi,

Could someone be kind enough to double check my code to make sure I'm using David Fanning's fsc_colorbar.pro routine correctly? I've read the article on his website on contiguous colors and I think I've configured it correctly but some results are wonky so I want to rule out plotting error. I've also downloaded a recent copy of David's library because I know he recently changed the colorbar routine name. Thanks in advance,

Ryan.

```
pro plotsnrvttemp, dates, snr, temp
```

```
;first, we handle the parameters
if n_params() lt 3 then $
  message, 'plotsnrvttemp.pro->Need 3 arguments to continue'
;check for same length
if nel(dates) ne nel(snr) then $
  message, 'plotsnrvttemp.pro->Need same array sizes'
if nel(snr) ne nel(temp) then $
  message, 'plotsnrvttemp.pro->Need same array sizes'

;removing measurements where no temperature has been found
dummy = where(temp lt 0, COMPLEMENT=idx, NCOMPLEMENT=cnt)
if cnt gt 0 then begin
  dates_a = dates[idx]
  snr_a = snr[idx]
  temp_a = temp[idx]
endif

;setting up the color scale for temperature
tmax = max(temp_a, min=tmin)
scale = (temp_a-tmin)/(tmax-tmin)

;set up the color table
device, Get_Decomposed=thisDecomposed
device, decomposed=0, retain=2
loadct, 33, ncolors=250, bottom=0, /silent
WHITE = fsc_color("white", !D.Table_Size-2)
BLACK = fsc_color("black", !D.Table_Size-3)

;setting up the plotting details
```

```

plotdetails = create_struct( $
    'position', [ 0.10, 0.10, 0.85, 0.90 ], $
    'nodata', 1, $
    'background', WHITE, $
    'color', BLACK, $
    'xtitle', 'Date', $
    'xtickunits', 'time', $
    'ytitle', 'SNR' $
)
psymdetails = create_struct( $
    'psym', 2, $
    'color', scale*250 $
)
colorbardetails = create_struct( $
    'vertical', 1, $
    'right', 1, $
    'bottom', 0, $
    'ncolors', 250, $
    'color', BLACK, $
    'range', [tmin, tmax] $
)

;plot
plot, dates_a, snr_a, _Extra=plotdetails
plots, dates_a, snr_a, _Extra=psymdetails
fsc_colorbar, _Extra=colorbardetails

;return plot settings to their original values
device, decomposed=thisDecomposed

end

```
