
Subject: create a colorbar for negative and positive values

Posted by [megagne1](#) on Tue, 27 Aug 2013 17:49:18 GMT

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; Run the following procedure

PRO bluewhitered

steps = 128

scaleFactor = FINDGEN(steps) / (steps - 1)

; Do first 128 colors (blue to green) for negative values.

redVector = REPLICATE(0, steps) ; Red vector: 0 -> 0

greenVector = 0 + (255 - 0) * scaleFactor ; Green vector: 0 -> 255

blueVector = 255 + (0 - 255) * scaleFactor ; Blue vector: 255 -> 0

; Do second 128 colors (yellow to red) for positive values.

redVector = [redVector, REPLICATE(255, steps)] ; Red vector: 255 -> 255

greenVector = [greenVector, 255 + (0 - 255) * scaleFactor] ; Green vector: 255 -> 0

blueVector = [blueVector, REPLICATE(0, steps)] ; Blue vector: 0 -> 0

; Put center of colorbar in white for 0 values

redVector(127:128) = 255.

greenVector(127:128) = 255.

blueVector(127:128) = 255.

; Check vectors:

print, blueVector

print, greenVector

print, redVector

; Save the colorbar:

r=redVector

b=blueVector

g=greenVector

save, filename='bluewhitered.sav', r,g,b

END

; For future use, restore the colorbar in your IDL code before opening a window:

restore, 'bluewhitered.sav'

TVCLT, r, g, b

; IF you want to check the colorbar:
xloadct
