

QGIS Application - Feature request #9303

Add a switch to reverse colours and invert palette

2014-01-07 01:22 AM - Paolo Cavallini

Status:	Closed	
Priority:	Normal	
Assignee:		
Category:	Symbology	
Pull Request or Patch supplied:	No	Resolution: fixed/implemented
Easy fix?:	No	Copied to github as #: 17911
Description		
See http://www.bc-consult.com/free/bcccoltbl1.html#i001		

History

#1 - 2014-01-07 05:05 AM - Etienne Tourigny

It is possible to invert the gradient in rasters (before classifying), but not in vectors. It should be easy to add a "invert" checkbox next to the color ramp selector in the Categorized and Graduated modes.

Updating the various gradient dialogs to support inverted colors would be somewhat more involved.

IMHO inverting palette is not feasible with cpt-city gradients.

#2 - 2014-01-09 05:01 AM - Etienne Tourigny

- % Done changed from 0 to 50

Added invert checkbox for vector layer classification (Categorized and Graduated) in 0a8c1ccd090f28efe2706e6f56d8ce2861867496 .

I am not sure that "inverting palette" is so useful (and honestly difficult or impossible for cpt-city gradients), but it could be added to the standard gradient dialog.

Leaving this open for now.

#3 - 2014-01-09 05:14 AM - Etienne Tourigny

Actually, implementing "invert palette" shouldn't be too hard.

The question is, where should this option appear? In the gradient dialog boxes, or in the raster/vector classification UIs (as is done for "invert colors")?

Another question is: is this really necessary?

Here is the relevant code in the 1-band raster colour table plugin (bcccoltbl), in file Palette.py, that does the inversions.

```
# interfaces to export useful objects
def getColPalette(self, bInvert = False, bReverse = False):
    """
    -- return the colour palette array
    """
```

```

if bInvert:
    #invert the colour palette
    for i in range(self.nColo+1):
        self.arColo[i,0] = 255 - self.arColo[i,0]
        self.arColo[i,1] = 255 - self.arColo[i,1]
        self.arColo[i,2] = 255 - self.arColo[i,2]
if bReverse:
    #reverse the colours order
    ar = np.zeros((self.nColo+1,4),int)
    n = self.nColo
    for i in range(self.nColo+1):
        ar[i,0] = self.arColo[n -i,0]
        ar[i,1] = self.arColo[n -i,1]
        ar[i,2] = self.arColo[n -i,2]
    self.arColo = ar
return self.arColo

```

#4 - 2014-01-09 05:17 AM - Etienne Tourigny

Added a few people to this ticket, would appreciate feedback on questions raised in last comment.

#5 - 2014-01-09 05:45 AM - Paolo Cavallini

Not sure it is necessary. I'd put it besides the "invert colour" checkbox.

#6 - 2017-05-01 12:48 AM - Giovanni Manghi

- Easy fix? set to No

#7 - 2018-02-24 02:02 PM - Paolo Cavallini

- Resolution set to fixed/implemented
 - Status changed from Open to Closed

Implemented