QGIS Application - Feature request #14845
Add an option to automatically classify discrete rasters when styling them

2016-05-19 10:35 PM - shenriod -

Status:	Closed		
Priority:	Normal		
Assignee:			
Category:	Symbology		
Pull Request or Patch supplied:	No	**Resolution:**	
Easy fix?:	No	**Copied to github as #:**	22798

Description

Hi

I am currently working with discrete rasters (landuse categories, boolean rasters...) and there seems to be no straight-forward way to style them.

If I have 30 landuse classes (1, 2, 3,... , 30), I need to use "Single-band pseudo-colour" and to add my 30 values manually. Moreover, if I don't want to display values 18,19,20 and remove them from the list, the pixels with those values will still be displayed (with colours interpolated between 17 and 21).

Selection_076

Would be great to have an additional "Render type" for discrete rasters. It should offer the option to automatically "retrieve all unique values" (like ArcGIS does). The renderer should then only display the pixels matching this list of values. Pixels with other values will just be ignored, not interpolated.

See for reference here

Thanks!

Associated revisions

Revision d03844d2 - 2017-04-03 04:08 AM - Nyall Dawson

[FEATURE] Allow classifying paletted renderer using unique values
from a raster layer

Adds an easy way to style discrete rasters such as landuse classes
using the Paletted renderer. Just select the Paletted renderer,
pick a band, then hit the "Add Unique Values" button. The unique
pixel values will be fetched from the layer and a color assigned
to each using the currently selected color ramp.

Fix #14845

Sponsored by

- Stéphane Henriod

- Satelligence (http://satelligence.com/)

- Bird's Eye View (https://www.birdseyeviewgis.com/)

- + other anonymous backers

History

#1 - 2016-05-21 10:38 PM - shenriod -

Related to this (old) request #4321

And to this one: #14449

#2 - 2016-05-22 03:36 AM - Giovanni Manghi

- Category set to Symbology

#3 - 2017-01-06 02:34 AM - shenriod -

I am not familiar with the etiquette of the ticketing system so sorry if I'm not posting at the right place!

I have the feeling that this requested feature (styling boolean or discrete rasters) is quite "basic" for a professional GIS software like QGIS. Any chance this request can get some attention? :-)

Thanks!

#4 - 2017-01-06 03:26 AM - Giovanni Manghi

shenriod - wrote:

> *I am not familiar with the etiquette of the ticketing system so sorry if I'm not posting at the right place!*
>
> *I have the feeling that this requested feature (styling boolean or discrete rasters) is quite "basic" for a professional GIS software like QGIS. Any chance this request can get some attention? :-)*
>
> *Thanks!*

I agree, there is a lot of room for improvements about discrete rasters.

Anyway while QGIS is fundamentally users necessity driven, do not expect someone wake up in the morning and add/fix (for free or just because) what is for you/me an important feature. Raise your concerns in the users/developers mailing lists and see if the request gains momentum and if is possible to put together a group of people willingly to support the request.

#5 - 2017-01-08 09:03 PM - shenriod -

Thanks for the hint, I will do so!

Edit: follow the discussion here:
http://lists.osgeo.org/pipermail/qgis-user/2017-January/038793.html
http://lists.osgeo.org/pipermail/qgis-user/2017-January/038795.html
http://lists.osgeo.org/pipermail/qgis-user/2017-January/038801.html

#6 - 2017-01-09 12:28 PM - Rick Rupp

I agree this is a feature that I very much would like to see/support.

#7 - 2017-01-10 03:04 AM - shenriod -

- File landcover.zip added

Adding a typical (fake) discrete raster if anyone wants to make tests

#8 - 2017-01-11 06:23 PM - Martin Dobias

Just a note - if you do not want colors to be interpolated, just set the interpolation type to "Exact". This will solve the issue that raster value 5 still gets rendered (as mentioned in the screenshot).

Also you do not need to add all the values manually, you can set min value to 1, max value to 30, number of classes to 30 and the list of colors will be populated by entries as wanted. Of course having a button to fetch all distinct values from raster would be useful...

Multi-selection of classes to edit or remove them would be handy.

In the mail to qgis-dev list you mentioned loading/saving of color maps - that's already possible, look for load/save buttons.

#9 - 2017-01-18 08:40 AM - Andy Harfoot

I have posted a workaround in the form of a Processing script as an answer to the GIS SE question on the same topic
http://gis.stackexchange.com/questions/194116/qgis-style-a-discrete-raster

It's rough and ready, but does the trick.

#10 - 2017-04-02 07:53 PM - Nyall Dawson

- Status changed from Open to Closed

Fixed in changeset commit:"d03844d24e96adfa57b608e2f40aebea5a8d317f".

Files

Selection_076.png	176 KB	2016-05-19	shenriod -
landcover.zip	2.1 KB	2017-01-10	shenriod -