QGIS Application - Bug report #6155
SLD Export fails to write out LineSymbolizer Stroke information

2012-08-04 07:33 PM - Jody Garnett

Status:	Closed			
Priority:	Normal			
Assignee:				
Category:	Symbology			
Affected QGIS version:	master	**Regression?:**	No	
Operating System:		**Easy fix?:**	No	
Pull Request or Patch supplied:	No	**Resolution:**	end of life	
Crashes QGIS or corrupts data:	No	**Copied to github as #:**	15479	

Description

To reproduced using master:

1. natural earth quickstart dataset
2. qgis "new symbology" styles from under dark (thanks!)
3. Using the 10m_rivers_lake_centerlines_scale_ranks layer
4. export to SLD

Resulting Rules generate with empty LineSymbolizers:

```
<sld:Rule>
  <sld:Name>0.000 - 0.200</sld:Name>
  <ogc:Filter>
    <ogc:And>
      <ogc:PropertyIsGreaterThan>
        <ogc:PropertyName>StrokeWeig</ogc:PropertyName>
        <ogc:Literal>0</ogc:Literal>
      </ogc:PropertyIsGreaterThan>
      <ogc:PropertyIsLessThanOrEqualTo>
        <ogc:PropertyName>StrokeWeig</ogc:PropertyName>
        <ogc:Literal>0.2</ogc:Literal>
      </ogc:PropertyIsLessThanOrEqualTo>
    </ogc:And>
  </ogc:Filter>
  <sld:LineSymbolizer>
    <sld:Stroke/>
  </sld:LineSymbolizer>
</sld:Rule>
```

History

#1 - 2012-08-04 07:46 PM - Jody Garnett

Looks to be just a interoperability fail, SLD 1.0 version SLD 1.1 etc...

For examples of the different files: http://docs.geotools.org/latest/userguide/library/xml/style.html

Options:

- If saving an style.sld file perhaps include version="1.1.0"

- also have the option of saving **just** the FeatureTypeStyle tag as a distinct "style.se" document.

#2 - 2012-08-05 05:17 AM - Giovanni Manghi

- Operating System deleted (Linux)

#3 - 2012-08-06 02:50 AM - Jody Garnett

Okay I got trapped on the SLD 1.0 vs SE 1.1 divide:

A bit of progress here manually taking things back to an SLD 1.0 file:

- Search and replace "se:" "sld:"

- Switching from "SvgParmeter" to "CssParameter"

Related GeoTools bug report is here: https://jira.codehaus.org/browse/GEOT-4220

#4 - 2012-08-06 03:26 AM - Giuseppe Sucameli

- Status changed from Open to Feedback

QGis export styles to SLD 1.1 only, and the version="1.1.0" attribute is present in the root tag.

I doesn't understand how to reproduce the issue, something is missing in the ticket description: QGis cannot create the sld snippet you've written above because QGis doesn't write tags with SLD namespace as it uses SE namespace.

#5 - 2012-08-06 03:31 AM - Giuseppe Sucameli

Jody Garnett wrote:

> *Related GeoTools bug report is here: https://jira.codehaus.org/browse/GEOT-4220*

Is it a QGis bug or GeoTools one? Or maybe a QGis-GeoTools interoperability issue?

#6 - 2012-08-06 05:00 AM - Jody Garnett

Evening Giuseppe.

Nathan and myself were at a code sprint this weekend trying a bit of SLD interoperability. I am in the process of updating the issue as I find out more information. I concur that the issues is on the parsing side between SLD version 1.1 and 1.0 differences. I was also a bit surprised that you are saving SLD 1.1 files.

SLD is focused on configuring a WMS server (ie many layers).
The SE part (ie feature type style) can be used in isolation and saved out to a file to capture how to style one layer.

This difference is why the specification was split into two documents. I am going to try and think of a good alternative, for example saving an "se" file.

#7 - 2012-08-20 08:11 AM - Giuseppe Sucameli

Jody Garnett wrote:

>

> *I was also a bit surprised that you are saving SLD 1.1 files.*

SLD/SE 1.1 fits more with the new symbology, converting to SLD 1.0 would result in a lot missing features instead.

> *The SE part (ie feature type style) can be used in isolation and saved out to a file to capture how to style one layer.*
>
> *I am going to try and think of a good alternative, for example saving an "se" file.*

I guess it would be good to put it beside the current behavior, i.e. having another Save style option for storing the SE style part into a .se file with the <se:FeatureTypeStyle> as root element.

#8 - 2012-08-26 07:25 AM - Jody Garnett

With a bit of help from Andrea Amie I have switch over to the SLD 1.1 parser (as such the differences between SvgParameter and CssParameter are now handled and I am for the most part getting visual results.

I am still finding a couple glitches as I go through the slid of styles; is it okay to keep this bug report open to go through them or would you like me to start another?

1) 10m_admin_0_boundary_breakaway_dispuded_area.sld
Fine

2) 10m_admin_0_boundary_lines_land.sld
Fine. Minor differences. The SvgParameter "stroke" is not written out on this end as the value "#000000" provided is the SLD default (and thus not needed).

3) 10m_admin_0_boundary_lines_maritime_indicator

Fine. Although the GeoTools rendering engine does not do much with a stroke-dasharray of "1 1". Perhaps we have a different take on the spec?

4) 10m_admin_0_breakaway_disputed_areas
Fine.

5) 10m_admin_0_map_subunits
Untested: I don't have an SLD export of this one.

6) 10m_admin_0_map_units
Invalid: Generates a Rule named "Single symbol" that does not have a list of symbolisers. This is invalid according to the spec; I have inserted some defensive coding so uDig no longer errors out.

7) 10m_admin_0_scale_ranks_with_minor_islands
Nice

8) 10m_admin_1_states_provinces_lines_shp
Check

9) 10m_admin_1_states_provinces_shp
Contains two rules (default) and (highlight) where default performs an equals test against an empty literal. This should probably be an <se:lseFilter/> or a <ogc:PropertyIsNull> depending

I will continue to take notes here http://udig.refractions.net/confluence/display/UDIG/1.3.2 and will report back as needed.

#9 - 2012-12-31 01:23 AM - Paolo Cavallini

- Assignee changed from Giuseppe Sucameli to anonymous -

#10 - 2014-06-28 07:42 AM - Jürgen Fischer

- Target version changed from Version 2.0.0 to Future Release - Lower Priority

#11 - 2014-06-29 10:09 AM - Jürgen Fischer

- Assignee deleted (anonymous -)

#12 - 2014-10-12 01:14 AM - Giovanni Manghi

- Status changed from Feedback to Open

#13 - 2017-05-01 01:09 AM - Giovanni Manghi

- Regression? set to No

- Easy fix? set to No

#14 - 2017-10-14 11:56 AM - Andrea Aime

- Description updated

Hi Jody, do you have a reference to the symbology used in this report?

Do you know if the reported issue is still current, much has changed in both QGIS and GeoTools SE 1.1 support

#15 - 2018-02-24 08:27 PM - Jody Garnett

Andrea Aime wrote:

> *Hi Jody, do you have a reference to the symbology used in this report?*
>
> *Do you know if the reported issue is still current, much has changed in both QGIS and GeoTools SE 1.1 support*

Yes, the natural earth dataset is here: http://www.naturalearthdata.com/downloads/

That page has a download link for "Natural Earth quick start kit", this download includes a QGIS project file. As a test I went through and exported the style for each layer, comparing the visual result between QGIS and GeoServer. I was able to match the LnF by hand, and can share the handbill SLD files with you if you like as a reference point.

We may wish to make a new bug report specifically about this as a good interoperability test, and close this issue on LineSymbolizer stroke information.

#16 - 2019-03-09 04:04 PM - Giovanni Manghi

- Status changed from Open to Closed

- Resolution set to end of life

End of life notice: QGIS 2.18 LTR

Source:

http://blog.qgis.org/2019/03/09/end-of-life-notice-qgis-2-18-ltr/

Files

10m_rivers_lake_centerlines_scale_ranks.sld 6.38 KB 2012-08-04 Jody Garnett