QGIS Application - Bug report #7217
graduated classes are altered when saved to qgs

2013-02-22 08:34 AM - Regis Haubourg

Status:	Closed		
Priority:	Severe/Regression		
Assignee:			
Category:	Symbology		
Affected QGIS version:	master	**Regression?:**	No
Operating System:		**Easy fix?:**	No
Pull Request or Patch supplied:	Yes	**Resolution:**	worksforme
Crashes QGIS or corrupts data:	No	**Copied to github as #:**	16253

Description

confirmed on both 1.8 and master dc074b3.

when classifying continuous numerical data (shp - field type; real ; length 20; precision 5) , classes are generated correctly, but are saved with exponents notation if data exceeds 1000000:
In the following example, the last classe upper value has been converted from 6 034 292 to 6.03429e+06.
real max value is then thrown out of classes because 6.03429e+06 is converted to 6 034 29*0* when project is reloaded.
All the values close to upper and lower bounds are potentially concerned.

This is a blocker since there is no way to save a project correctly, except modifying classes by hand in a text editor.

```
 <renderer-v2 attr="PTBRUTTOT" symbollevels="0" type="graduatedSymbol">
        <ranges>
          <range symbol="0" lower="0" upper="84191.1" label="0 - 84 192"/>
          <range symbol="1" lower="84191.1" upper="329134" label="84 192 - 329 134"/>
          <range symbol="2" lower="329134" upper="797510" label="329 134 - 797 511"/>
          <range symbol="3" lower="797510" upper="1.25838e+06" label="797 511 - 1 258 384"/>
          <range symbol="4" lower="1.25838e+06" upper="6.03429e+06" label="1 258 384 - 6 034 292"/>
        </ranges>
```

Associated revisions

Revision 4538cf15 - 2013-07-06 02:08 AM - Jürgen Fischer

fix #7217

History

#1 - 2013-02-22 08:56 AM - Regis Haubourg

QML and mapinfo tab are also concerned

#2 - 2013-02-22 09:05 AM - Regis Haubourg

It could be simple to solve since same problem occured with WMS bounds and scales:
here are some revisions solving thoses problems: [[https://issues.qgis.org/search/index/quantum-gis?q=exponential]]

#3 - 2013-02-22 01:33 PM - Regis Haubourg

conversion to Double seems to be done here:
[[https://github.com/qgis/Quantum-GIS/blob/master/src/core/symbology-ng/qgsgraduatedsymbolrendererv2.cpp]]
line 888:

```
double lowerValue = rangeElem.attribute( "lower" ).toDouble();
double upperValue = rangeElem.attribute( "upper" ).toDouble();
```

use of .toDouble seems to be done everywhere. Any idea ?

#4 - 2013-03-14 02:58 AM - Alexander Bruy

- Pull Request or Patch supplied changed from No to Yes
- File fix_7217.patch added
- Category changed from Map Legend to 83

Here is patch that should fix such issue. Unfortunately, I can't test it with wide range of datasets, so maybe in some cases it still don't work as expected.

#5 - 2013-03-18 01:40 PM - Regis Haubourg

Hi, a little up to commiters: Can anyone test before merge ? This might be a easy-to-solve blocker ;-)
(I can't compile by myself and can only test ith osge4w).
Régis

#6 - 2013-05-28 03:23 PM - Nathan Woodrow

Can we confirm if this still and issue. I can't reproduce here.

#7 - 2013-05-28 08:46 PM - Mathieu Pellerin - nIRV

I can't reproduce this issue either. So what they say is true, time does heal ;o)

#8 - 2013-05-28 08:48 PM - Nathan Woodrow

- Resolution set to worksforme
- Status changed from Open to Closed

Regis can you test with the latest build and report back if it is still an issue.

#9 - 2013-05-28 11:29 PM - Regis Haubourg

Hi, there is no new build on osgeo4w today, I'll try next week (QGIS training by the end of the week!)

#10 - 2013-06-02 06:46 AM - Regis Haubourg

- File Grauated_classes_test_sample.zip added
- Status changed from Closed to Reopened

Hi,
I must reopen, tested in e2bd04f today, problem is still here, qgs is still saved using scientific notation.
see:

```
  <ranges>
            <range symbol="0" lower="1" upper="3" label="1.0000 - 3.0000"/>
            <range symbol="1" lower="3" upper="56" label="3.0000 - 56.0000"/>
            <range symbol="2" lower="56" upper="1e+09" label="56.0000 - 1000000389.0000"/>
          </ranges>
```

I join a very simple dataset to build unit tests:

#11 - 2013-06-03 04:15 PM - Nathan Woodrow

Ok I see it. Will try and fix.

#12 - 2013-06-27 07:56 PM - Minoru Akagi

QVariant::toString() seems to return better results than QString::number(), doesn't it?

In python:

```
>>> from PyQt4.QtCore import *
>>> val = 6034292.
>>> QString.number(val)
PyQt4.QtCore.QString(u'6.03429e+06')
>>> QVariant(val).toString()
PyQt4.QtCore.QString(u'6034292')

>>> val = 1.000001
>>> QString.number(val)
PyQt4.QtCore.QString(u'1')
>>> QVariant(val).toString()
PyQt4.QtCore.QString(u'1.000001')
```

#13 - 2013-06-27 07:57 PM - Nathan Woodrow

Seems so.

toString is the way to go.

#14 - 2013-07-05 05:10 PM - Jürgen Fischer

- Status changed from Reopened to Closed

Fixed in changeset commit:"4538cf1593a22c1aba998abfc6f3c730b0943a71".

Files

fix_7217.patch	1.71 KB	2013-03-14	Alexander Bruy
Grauated_classes_test_sample.zip	1.47 KB	2013-06-02	Regis Haubourg