

QGIS Application - Bug report #14301

simplification makes geometry-based expression values (such as \$area) vary for symbology and labels

2016-02-15 07:06 PM - Mathieu Pellerin - nIRV

Status:	Closed	
Priority:	Normal	
Assignee:		
Category:	Simplification	
Affected QGIS version:	master	Regression?: No
Operating System:		Easy fix?: No
Pull Request or Patch supplied:		Resolution:
Crashes QGIS or corrupts data:		Copied to github as #: 22292
Description		
<p>When simplification is activated for a given vector layer, geometry-based expression values - such as \$area - will vary within a symbology or label context when the zoom level in changed. I haven't looked at the code, but what I'm assuming happens here is that the expression is run against the simplified geometry, leading to varying values as the geometry is morphed.</p> <p>That's a significant shortcoming that would be worth addressing. I discovered this when a number of polygons were going missing in a project using a density-based expression to make a graduated symbology.</p> <p>I'm attaching a small test project to this issue that shows a polygon disappearing when zooming out (due to simplified polygon having an erroneous \$area value).</p> <p>Steps to reproduce</p> <ol style="list-style-type: none">1. Open the attached project2. Notice the rule-based expression being used: (\$area / 10000) > 1309 AND (\$area / 10000) < 13103. Zoom out onto the canvas a couple of times, you'll see the polygon go missing <p>If you change the symbology to a single symbol, you can zoom in and out and notice the label (which shows the result of the following expression: \$area / 10000) value varies as the simplified polygon returns different \$area values.</p>		

Associated revisions

Revision d4a482b9 - 2016-05-27 04:34 PM - Nyal Dawson

Merge pull request #2900 from ahuarte47/Issue_QPainterSimplification

[Bugfix] QPainter simplification (fixes #14301)

History

#1 - 2016-03-11 03:16 AM - Alvaro Huarte

Hi, I would like to propose this pull <https://github.com/qgis/QGIS/pull/2900> to fix the issue.

Best regards
Alvaro

#2 - 2016-05-27 07:35 AM - Nyal Dawson
- Status changed from Open to Closed

Fixed in changeset commit:"d4a482b982b6748a1812efa0ef075b65bf668ba4".

Files

expression_area_simplification.zip	311 KB	2016-02-15	Mathieu Pellerin - nIRV
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