

QGIS Application - Bug report #6476

data defined ellipse symbols on polygon centroid fill

2012-10-07 12:17 AM - Raymond Nijssen

Status:	Closed	
Priority:	Normal	
Assignee:		
Category:	Symbology	
Affected QGIS version:	master	Regression?: No
Operating System:	linux	Easy fix?: No
Pull Request or Patch supplied:	No	Resolution:
Crashes QGIS or corrupts data:	No	Copied to github as #: 15706
Description		
<p>In the new symbology you can draw ellipses as point symbols. This works fine on both point layers and polygon layers (using centroid fill). There's also an advanced option where you can set the width and height of the ellipses defined by data values. This works on point layers, but not on polygon layers.</p> <p>On polygon layers you can choose the fields for width and height, but ellipses are rendered in the fixed (4*3) size anyway.</p>		

History

#1 - 2012-10-10 01:05 PM - Julien Lamarche

Can you specify what version you are running and steps to reproduce the problem? When you say you are drawing ellipses is that with the "Rectangles ovals digitizing" plugin by Pavol Kapusta?

#2 - 2012-10-10 02:28 PM - Raymond Nijssen

- File 32.png added

Actually I reinstalled my laptop so I'm on ubuntu 12.04 now. QGIS is version 1.8.0-lisboa. But I expect the problem to be inside qgis since the functionality works on a point layer and does not work on a polygon layer.

I do not use any plugin for this.

Step by step:

- open a polygon shapefile as a layer
- open the layer properties
- change the symbology
- add a symbol layer
- set the symbol layer type to "centroid fill"
- change the marker
- set the marker type to "ellipse marker"

now if i apply i see black (4x3 size) ellipse markers on all my polygons, so the rendering works

- in the the data defined properties tab, select fields for width and height (i use integer fields)

now i apply, the ellipses are still drawn in the 4x3 size.

if i repeat these same steps at a point shapefile, the ellipse sizes do change after the last step.

I hope this helps you reproducing the problem. I use the dutch translation so i had to guess the english captions in my description. I also added a screenshot.

Thanks so far,
Raymond

#3 - 2012-10-10 03:06 PM - Julien Lamarche

Yes, I have reproduced the problem using the field "id".

#4 - 2012-10-11 03:01 PM - Julien Lamarche

- Assignee set to Larry Shaffer

Notes to devs:

In release-1_8, line 191 to 202 of src/core/symbology-ng/qgsellipsesymbollayerv2.cpp has:

```
const QgsVectorLayer* vlayer = context.layer();
if ( vlayer )
{
    QgsDebugMsg("Julien: Resolving data defined attribute indices");
    mWidthIndex = vlayer->fieldNameIndex( mWidthField );
    mHeightIndex = vlayer->fieldNameIndex( mHeightField );
    mRotationIndex = vlayer->fieldNameIndex( mRotationField );
    mOutlineWidthIndex = vlayer->fieldNameIndex( mOutlineWidthField );
    mFillColorIndex = vlayer->fieldNameIndex( mFillColorField );
    mOutlineColorIndex = vlayer->fieldNameIndex( mOutlineColorField );
    mSymbolNameIndex = vlayer->fieldNameIndex( mSymbolNameField );
}
```

One thing I noticed is that with a point layer, the code will enter the if condition starting at line 192. On a polygon layer it will not.

So next I have to look at the function of QgsSymbolV2RenderContext.layer and figure out why it is returning a false value in the case of a polygon layer.

#5 - 2012-10-11 03:02 PM - Julien Lamarche

- Assignee deleted (Larry Shaffer)

Undoing bug assign. Sorry Larry.

#6 - 2012-11-12 02:54 PM - Julien Lamarche

Did a bit more research on this.

On line 177-178 of src/core/symbology-ng/qgssymbolv2.h, which is where the class definition of QgsSymbolV2RenderContext is located:

```
void setLayer( const QgsVectorLayer* layer ) { mLayer = layer; }
const QgsVectorLayer* layer() const { return mLayer; }
```

So the function layer returns the value of mLayer, which is evaluated to false in qgsellipsesymbollayerv2.cpp on line 192.

Next steps for this bug resolution would be to:

- 1. Double check that behavior can be reproduced in a latter beta version of qgis
- 2. If so, check with active developpers if this is being addressed in a different bug.
- 3. If not, proceed with bug fix, putting in some debug feedback in setLayer

#7 - 2013-06-13 10:12 AM - Julien Lamarche

Posted email to dev mailing list to see if anyone else was working on simillar bugs:

<http://lists.osgeo.org/pipermail/qgis-developer/2013-June/026686.html>

#8 - 2013-11-21 02:39 AM - Matthias Kuhn

- Status changed from Open to Feedback

Works for me on a recent master build. Is this issue solved or am I testing the wrong thing?

#9 - 2013-11-22 05:55 AM - Raymond Nijssen

- File centroid-fill-databased-color.png added

Works for me too now! And I could even fill the ellipse colour using a text field containing values like #54f7b8.

I'm using todays testing/master version on Ubuntu 13.10.

Can more people test? I hope we can close this!

#10 - 2013-11-24 10:54 PM - Matthias Kuhn

- Status changed from Feedback to Closed

This issue seems to be fixed.

Files			
32.png	142 KB	2012-10-10	Raymond Nijssen
centroid-fill-databased-color.png	28.5 KB	2013-11-22	Raymond Nijssen