

## QGIS Application - Bug report #18384

### Combination of `segments_to_lines($geometry)` and `@geometry_part_num` gives wrong segment numbers

2018-03-08 12:23 PM - Michel Stuyts

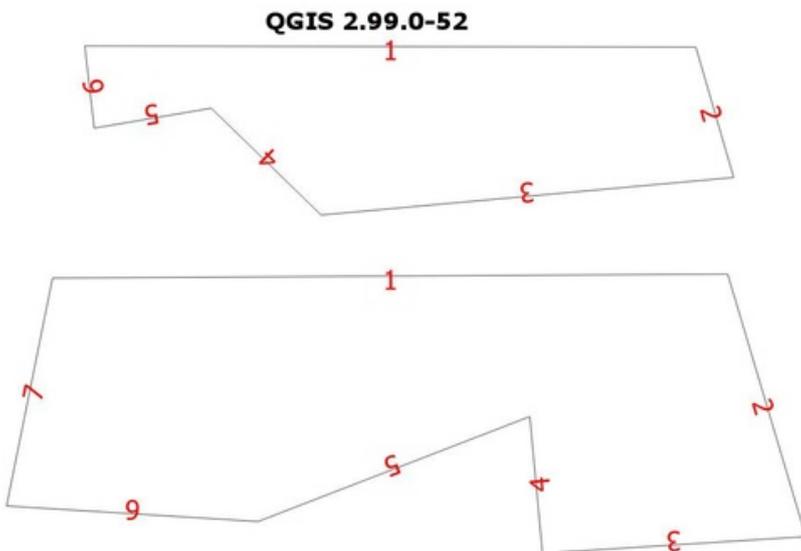
<b>Status:</b> Closed	
<b>Priority:</b> High	
<b>Assignee:</b> Nyall Dawson	
<b>Category:</b> Symbology	
<b>Affected QGIS version:</b> 3.5(master)	<b>Regression?:</b> Yes
<b>Operating System:</b> Windows 10 & Ubuntu Linux 17.10	<b>Easy fix?:</b> No
<b>Pull Request or Patch supplied:</b>	<b>Resolution:</b>
<b>Crashes QGIS or corrupts data:</b>	<b>Copied to github as #:</b> 26274

#### Description

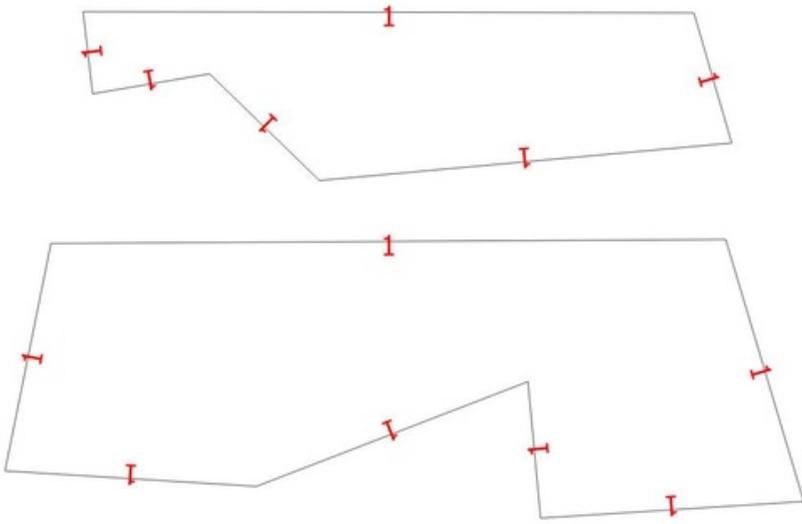
When creating a style (segments.qml) for a polygon layer I noticed a difference between QGIS 2.99 (Windows standalone installer) and QGIS 3.0 (OSGeo4W) when I use `segments_to_lines` & `@geometry_part_num`.

- I created a polygon layer and added some polygons.
- Then I started editing the layer style:
  - I added a Geometry generator as symbol layer to create a Linestring type that contains `segments_to_lines($geometry)`
  - Then I changed the line type of the result to a "Marker line"
  - Then I changed the Symbol layer type of this "Marker line" to "Font marker"
  - Then I changed the "Data defined override" of the content of this font marker to `@geometry_part_num`
  - Then I changed the font size of the font marker

The results are different in QGIS 2.99 and 3.0 (see images below). Is this a bug in 3.0 or is it an intentional change? The result in QGIS 2.18 is the same as in 2.99. The result in QGIS 3.1 is the same as in 3.0. I also tested it in QGIS 3.0 on Ubuntu 17.10 it gives the same result as 3.0 in Windows.



## QGIS 3.0.0-4



### Associated revisions

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#### Revision 9cf2ff31 - 2019-01-22 05:36 PM - Nyal Dawson

Fix evaluation of data defined properties for subsymbols of subsymbols

Fixes #18384

#### Revision 7e25cea7 - 2019-01-24 03:22 AM - Nyal Dawson

Fix evaluation of data defined properties for subsymbols of subsymbols

Fixes #18384

(cherry picked from commit 9cf2ff31d86e6b7671aaca137a60a7b7a975ef62)

### History

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#### #1 - 2018-03-08 01:11 PM - Giovanni Manghi

- Priority changed from Normal to High
- Regression? changed from No to Yes

Seems a bug to me, but I'm not 100% sure. Hopefully a developer will clarify here.

#### #2 - 2018-05-11 04:01 PM - Anita Graser

When this happens, @geometry\_part\_count is always 1. No matter how complex the original feature is.

#### #3 - 2018-05-12 07:00 PM - Anita Graser

I've hunted down the issue: it seems like @geometry\_part\_num values change irrespective of the geometry generator expression.

This short screen cast should explain it better than words:

[https://www.dropbox.com/s/cvyqeecpg0uis1j/QGIS%20Geometry%20Generator%20geometry\\_part\\_num.mp4?dl=0](https://www.dropbox.com/s/cvyqeecpg0uis1j/QGIS%20Geometry%20Generator%20geometry_part_num.mp4?dl=0)

Basically, if you just use @geometry\_part\_num in the font marker text expression, it will always display 1.

If you additionally use @geometry\_part\_num in an expression for a simple line that is part of the same geometry generator tree, the values change to 1...n

#### #4 - 2018-05-13 08:38 PM - Anita Graser

Confirmed by Nyall here:

<http://osgeo-org.1560.x6.nabble.com/Re-Qgis-user-segments-to-lines-geometry-part-num-in-QGIS-2-99-3-0-tp5364193p5364213.html>

#### #5 - 2019-01-22 03:52 AM - Nyall Dawson

- Status changed from Open to In Progress
- Assignee set to Nyall Dawson
- Affected QGIS version changed from 3.0.0 to 3.5(master)

#### #6 - 2019-01-22 05:35 PM - Nyall Dawson

- % Done changed from 0 to 100
- Status changed from In Progress to Closed

Applied in changeset commit:qgis|9cf2ff31d86e6b7671aaca137a60a7b7a975ef62.

#### Files

test_qgis299.jpg	20.3 KB	2018-03-08	Michel Stuyts
test_qgis300.jpg	19.8 KB	2018-03-08	Michel Stuyts
segments.qml	11 KB	2018-03-08	Michel Stuyts