

QGIS Application - Bug report #19756

the line_interpolate_point function does not work with EPSG 4326

2018-09-03 02:46 PM - salvatore fiandaca

Status:	Closed	
Priority:	Normal	
Assignee:		
Category:	Expressions	
Affected QGIS version:	3.3(master)	Regression?: No
Operating System:	win 10 64b OSGeo4W	Easy fix?: No
Pull Request or Patch supplied:	No	Resolution: invalid
Crashes QGIS or corrupts data:	No	Copied to github as #: 27581
Description		
<p>I attach a shapefile linestring in EPSG 4326 and I ask you to do the following test:</p> <p>add a text field - long 80 - and populate it with the following expression:</p> <pre>geom_to_wkt (line_interpolate_point (\$ geometry, \$ length / 2))</pre> <p>then exported to csv to verify the points.</p> <p>result: point on the first vertex expected result: central point along the line</p> <p>In QGIS 2.18.23 LTR the field is filled out but the coordinates are of the first one vertex and not the expected one of the centroid along the line; In QGIS 3.2.2 the field is filled out but the coordinates are of the first one vertex and not the expected one of the centroid along the line; In QGIS 3.3 dev the field is NOT compiled, or rather the value is NULL</p> <p>in all three versions the expression works well if used for thematize with geometry generator</p>		

History

#1 - 2018-09-03 04:00 PM - Giovanni Manghi

- Category changed from Field calculator to Expressions

#2 - 2018-09-03 10:53 PM - Nyal Dawson

- Status changed from Open to Feedback

Try

```
line_interpolate_point ($ geometry, length($geometry) / 2)
```

\$length converts to the project length setting, which is likely metres.

#3 - 2018-09-04 09:02 AM - salvatore fiandaca

Nyall Dawson wrote:

Try

```
line_interpolate_point ($ geometry, length($geometry) / 2)
```

\$length converts to the project length setting, which is likely metres.

I did a test and your expression works.

PS: in QGIS 2.18.23 changing units of measure (project properties -> degree map unit) \$ length respects the change; QGIS 3.2.2 and DEV do not respect the change of units and the length is always in meters

#4 - 2018-09-04 09:35 AM - salvatore fiandaca

salvatore fiandaca wrote:

Nyall Dawson wrote:

Try

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line_interpolate_point ($ geometry, length($geometry) / 2)
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errata corrige: it is necessary to change both ellipsoid settings in 'none / planimetric' and units of distance measurement in 'degrees'

thank you

PS: in QGIS 2.18.23 changing units of measure (project properties -> degree map unit) \$ length respects the change; QGIS 3.2.2 and DEV do not respect the change of units and the length is always in meters

#5 - 2018-09-04 10:49 AM - Giovanni Manghi

PS: in QGIS 2.18.23 changing units of measure (project properties -> degree map unit) \$ length respects the change; QGIS 3.2.2 and DEV do not respect the change of units and the length is always in meters

filing a different ticket?

#6 - 2018-09-04 10:50 AM - Giovanni Manghi

errata corrige: it is necessary to change both ellipsoid settings in 'none / planimetric' and units of distance measurement in 'degrees'
thank you

so... means this ticket can be closed?

#7 - 2018-09-04 12:46 PM - salvatore fiandaca

Giovanni Manghi wrote:

errata corrige: it is necessary to change both ellipsoid settings in 'none / planimetric' and units of distance measurement in 'degrees'

thank you

so... means this ticket can be closed?

yes, it can be closed

thank you

#8 - 2018-09-04 12:49 PM - Nyal Dawson

- Resolution set to invalid
- Status changed from Feedback to Closed

Files

bug_line_interpolate_point_4326.7z	1.07 KB	2018-09-03	salvatore fiandaca
QGIS_DEV.png	27.4 KB	2018-09-03	salvatore fiandaca
QGIS_322.png	38.3 KB	2018-09-03	salvatore fiandaca
QGIS_2-18-23.png	42.6 KB	2018-09-03	salvatore fiandaca