

## QGIS Application - Bug report #19756

### the line\_interpolate\_point function does not work with EPSG 4326

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

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b>	
<b>Category:</b> Expressions	
<b>Affected QGIS version:</b> 3.3(master)	<b>Regression?:</b> No
<b>Operating System:</b> win 10 64b OSGEO4W	<b>Easy fix?:</b> No
<b>Pull Request or Patch supplied:</b> No	<b>Resolution:</b> invalid
<b>Crashes QGIS or corrupts data:</b> No	<b>Copied to github as #:</b> 27581

#### Description

I attach a shapefile linestring in EPSG 4326 and I ask you to do the following test:

add a text field - long 80 - and populate it with the following expression:

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

then exported to csv to verify the points.

result: point on the first vertex

expected result: central point along the line

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

in all three versions the expression works well if used for thematize with geometry generator

#### 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

```
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.*

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**

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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