

QGIS Application - Bug report #17650

segments_to_line function not respecting line orientation

2017-12-06 07:09 PM - Zoran Čučković

Status: Closed	
Priority: Normal	
Assignee: Nyall Dawson	
Category: Expressions	
Affected QGIS version: 2.18.4	Regression?: No
Operating System: Windows	Easy fix?: No
Pull Request or Patch supplied: No	Resolution: invalid
Crashes QGIS or corrupts data: No	Copied to github as #: 25547

Description

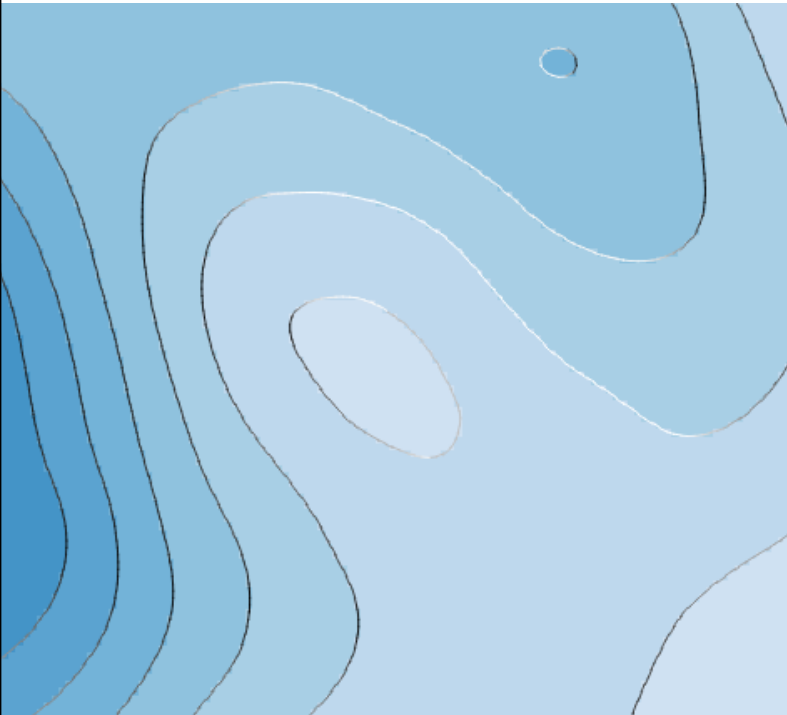
I'm having inconsistent rendering when using **segments_to_lines** function. The idea is to produce shaded contour lines. The procedure is as follows:

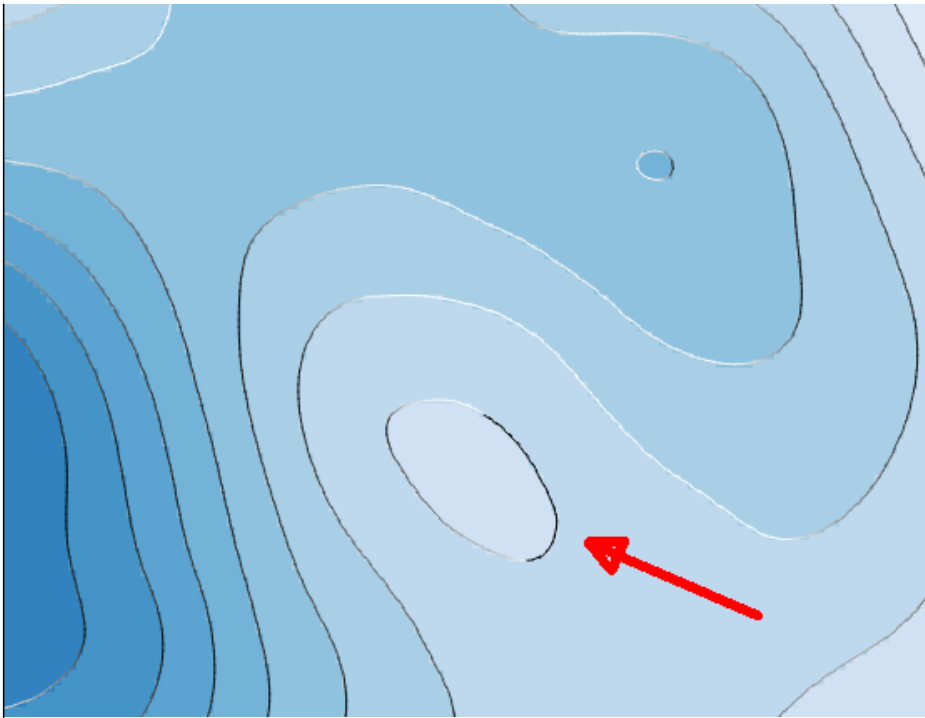
1. 1) explode lines "on-the-fly" using `segments_to_lines($geometry)`

2. 2) calculate azimuth for each line

```
azimuth(  
  end_point(geometry_n($geometry,@geometry_part_num)),  
  start_point(geometry_n($geometry,@geometry_part_num)))
```

This is what happens when the result is translated to line colours:





These two screen-shots were made while panning and zooming in/out. The contour lines were made with GDAL, which is expressly tuned to respect line orientation (" *Starting from version 1.7 the contour line-strings will be oriented consistently* "). It seems that the routine does not respect line orientation. Or, perhaps, the azimuth value is out of range (?)

The full code of my function:

```

Expression string builder
Expression Function Editor
= + - / * ^ || ( ) '\n'
color_hsl( 0,0,
  scale_linear(
    abs(
      azimuth(
        end_point(geometry_n($geometry,@geometry_part_num)),
        start_point(geometry_n($geometry,@geometry_part_num))
      ),
      -3.141 ),
    0,3.141 ,0,200))
  
```

History

#1 - 2017-12-06 08:34 PM - Zoran Čučković

- Status changed from Open to Closed

The problem was in colour ranges that I assigned to the result (in the scale_linear function).

All works fine, sorry about this !

#2 - 2017-12-07 11:14 AM - Giovanni Manghi

- Resolution set to invalid

Files

function.png	22.3 KB	2017-12-06	Zoran Čučković
view1.png	32 KB	2017-12-06	Zoran Čučković
view2.png	40.2 KB	2017-12-06	Zoran Čučković