

QGIS Application - Bug report #21092

Marker line with custom dash

2019-01-25 07:46 AM - Sergey Chernyshov

Status:	Open	
Priority:	Normal	
Assignee:		
Category:	Symbology	
Affected QGIS version:	3.4.4	Regression?: No
Operating System:	Win 10	Easy fix?: No
Pull Request or Patch supplied:	No	Resolution:
Crashes QGIS or corrupts data:	No	Copied to github as #: 28910
Description Rendering of comlex line symbol (marker line with custom dash line) show different incorrect results on different scales. See examples on the pictures. "Scale 1:500" shows correct rendering. Position of marker match the gap of dashed line. "Scale 1:250" - line cross the symbol. "Scale 1:10000" - wrong symbol size. Size of symbol is set in map units. With this scale it must be one pixel only or invisible. I see this problem in both QGIS 2.18 and 3.4 versions.		

History

#1 - 2019-01-25 01:39 PM - Sergey Chernyshov

BTW check/uncheck flag "clip features to canvas extent" in Advanced doesn't solve it

#2 - 2019-01-25 02:08 PM - Giovanni Manghi

- Easy fix? changed from Yes to No
- Status changed from Open to In Progress
- Regression? changed from Yes to No

Please try the latest version available, 3.4.4

#3 - 2019-01-28 06:46 AM - Sergey Chernyshov

Giovanni Manghi wrote:

| Please try the latest version available, 3.4.4

In ver 3.4.4 result is the same.

#4 - 2019-01-28 09:00 AM - Sergey Chernyshov

I see the problem is because rendering uses different algorithmes for draw Marker line and Simple line with Custom dash pattern.

For Marker line I set Marker placement parameter = "with interval" and Units for this interval are "Map units". Rendering algorithme calculates position of each markers from the beginning of line.

I expected the the same algorithme for dashed line. But it differs!

Pen object uses Custom Dash Pattern (qgslinesymbollayerv2.cpp):

```
mPen.setStyle( Qt::CustomDashLine );
```

```
...
mPen.setDashPattern( scaledVector );
```

Then beninning of dashes / spaces depends on current visible frame, visible part of feature, etc.

- #5 - 2019-01-28 10:52 AM - Giovanni Manghi**
- Status changed from In Progress to Open
 - Affected QGIS version changed from 3.4.2 to 3.4.4

#6 - 2019-01-28 05:00 PM - Alexis Roy-L

Did some tests, on my end, only font marker seem to behave this way. Typical symbols and SVGs are ok and maintain their scale when zoomed out.

#7 - 2019-01-29 01:16 PM - Sergey Chernyshov

Alexis Roy-L wrote:

Did some tests, on my end, only font marker seem to behave this way. Typical symbols and SVGs are ok and maintain their scale when zoomed out.

The problem is with custom dashes and spaces (in map units!). In my tests all types of symbol were rendered correct.

Files			
500.png	15 KB	2019-01-25	Sergey Chernyshov
250.png	22.5 KB	2019-01-25	Sergey Chernyshov
Font.png	33.4 KB	2019-01-25	Sergey Chernyshov
10000.png	172 KB	2019-01-25	Sergey Chernyshov
Line.png	26.2 KB	2019-01-25	Sergey Chernyshov
Symbol.png	17.2 KB	2019-01-25	Sergey Chernyshov