QGIS Application - Bug report #15421
QgsSnapper return only one result on multiple items

2016-08-11 02:26 AM - Casper Børgesen

Status:	Closed		
Priority:	Normal		
Assignee:			
Category:	PyQGIS Console		
Affected QGIS version:	master_2	**Regression?:**	No
Operating System:	windows	**Easy fix?:**	No
Pull Request or Patch supplied:	No	**Resolution:**	end of life
Crashes QGIS or corrupts data:	No	**Copied to github as #:**	23348

Description

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I am trying to programmatically to snap to the nearest segment or segments. I have a layer with two lines (the corresponding SHAPE layer is attached):

1. (0,0) -> (3,3)
2. (1,1) -> (2,2)

These two lines has a common overlap corresponding to the second line.

Code:

I have set up the snapper as follows:

Setup the snap layer.
```
>>> sl = QgsSnapper.SnapLayer()
>>> sl.mLayer = iface.mapCanvas().currentLayer()
>>> sl.mTolerance = 25
>>> sl.mSnapTo = QgsSnapper.SnapToSegment
>>> sl.mUnitType = QgsTolerance.Pixels
```

Setup the snapper.
```
>>> sn = QgsSnapper(iface.mapCanvas().mapSettings())
>>> sn.setSnapLayers([sl])
```

I want more than one result if available.
```
>>> sn.setSnapMode = QgsSnapper.SnapWithResultsWithinTolerances
```

Snap using the center point of the common overlap - that should ensure both lines are detected.
```
>>> (retval, result) = sn.snapMapPoint(QgsPoint(1.5, 1.5))
```

The result, where I expect two items, but the following only gives me one.
```
>>> len(result)
 1
```

According to https://github.com/qgis/QGIS/blob/master/src/core/qgssnapper.cpp#L108 using either
QgsSnapper.SnapWithResultsForSamePosition or QgsSnapper.SnapWithResultsWithinTolerances should allow for more results.

What is going wrong for me here?

To reproduce:

1. Open QGIS.
2. Load the attached layer.
3. Paste the above code into the Python console.

History

#1 - 2017-05-01 01:03 AM - Giovanni Manghi

- Easy fix? set to No

- Regression? set to No

#2 - 2019-03-09 03:51 PM - Giovanni Manghi

- Resolution set to end of life

- Status changed from Open to Closed

End of life notice: QGIS 2.18 LTR

Source:

http://blog.qgis.org/2019/03/09/end-of-life-notice-qgis-2-18-ltr/

Files

line_layer.shp	276 Bytes	2016-08-11	Casper Børgesen
line_layer.dbf	87 Bytes	2016-08-11	Casper Børgesen
line_layer.shx	116 Bytes	2016-08-11	Casper Børgesen