QGIS Application - Bug report #5577 "Densify geomteries" crashes QGIS

2012-05-11 11:01 AM - Giovanni Manghi

Status: Closed

Priority: Severe/Regression
Assignee: Alexander Bruy
Category: Processing/QGIS

Affected QGIS version:master Regression?:

Operating System: Easy fix?:

Pull Request or Patch shapplied: Resolution: fixed

Crashes QGIS or corruptesdata: Copied to github as #: 15157

Description

On Ubuntu 64bit

gio@sibirica:~\$ qgis

Warning: loading of qgis translation failed [/usr/share/qgis/i18n//qgis_en_US] Warning: loading of qt translation failed [/usr/share/qt4/translations/qt_en_US]

Debug: OpenlayersLayer draw

Debug: page file: file:////home/gio/.qgis/python/plugins/openlayers/html/google_satellite.html

Debug: undefined⁰: TypeError: 'null' is not an object

Debug: extent: -798709.4330660001141950,4709909.2752386806532741:

-797664.5537049998529255,4710634.0523063195869327

Debug: center: -798186.993386, 4710271.663773

Debug: size: 1149, 797
Debug: logicalDpiX: 96
Debug: outputDpi: 96.000000
Debug: mapUnitsPerPixel: 0

Debug: olSize: 1149, 797

Debug: adjust viewport: 0.909382 -> 0.597164: 1749.735190 x 1213.697952

Debug: updating OpenLayers extent

Debug: undefined^o: TypeError: 'null' is not an object Debug: scale image: 1749 x 1213 → 1149 x 797

Debug: OpenlayersLayer draw

Debug: extent: -798709.4330656065139920,4709909.2752385335043073:

-797664.5537053393200040,4710634.0523056639358401

Debug: center: -798186.993385, 4710271.663772

Debug: size: 1149, 797
Debug: logicalDpiX: 96
Debug: outputDpi: 96.000000
Debug: mapUnitsPerPixel: 0
Debug: olSize: 1149, 797

Debug: adjust viewport: 0.909382 -> 0.597164: 1749.735189 x 1213.697951

Debug: updating OpenLayers extent

Debug: scale image: 1749 x 1213 -> 1149 x 797

Warning: QObject::setParent: Cannot set parent, new parent is in a different thread

Warning: QPixmap: It is not safe to use pixmaps outside the GUI thread Warning: QPixmap: It is not safe to use pixmaps outside the GUI thread

Warning: X Error: BadIDChoice (invalid resource ID chosen for this connection) 14

Major opcode: 1 (X CreateWindow)

Resource id: 0x260028d

Warning: X Error: BadIDChoice (invalid resource ID chosen for this connection) 14

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Extension: 150 (RENDER)

Minor opcode: 4 (RenderCreatePicture)

Resource id: 0x260028e

qgis.bin: Fatal IO error 11 (Resource temporarily unavailable) on X server :0.0.

on windows it just gives a python error (see attached image and sample)

History

#1 - 2012-05-12 12:31 AM - Alexander Bruy

This is because attached layer contains MultiLineString geometry. It is odd that wkbType() for this layer returns 2 (WKBLineString) instead of 5 (WKBMultiLineString). So IMHO here we have two problems:

- 1. wkbType() reports wrong layer geometry type
- 2. densify geometries don't work with multi-geometries

I'll try to fix second ASAP

#2 - 2012-05-12 01:32 AM - Salvatore Larosa

I don't think that the problem is the MultiGeometries:

\$ ogrinfo /home/sam/Scaricati/caminhos_shp/caminhos.shp INFO: Open of `/home/sam/Scaricati/caminhos_shp/caminhos.shp' using driver `ESRI Shapefile' successful.

1: caminhos (Line String)

indeed it is not a MultiLinestring!

#3 - 2012-05-12 01:34 AM - Giovanni Manghi

Alexander Bruy wrote:

This is because attached layer contains MultiLineString geometry. It is odd that wkbType() for this layer returns 2 (WKBLineString) instead of 5 (WKBMultiLineString). So IMHO here we have two problems: 1. wkbType() reports wrong layer geometry type

2. densify geometries don't work with multi-geometries

I'll try to fix second ASAP

Hi Alex,

this line shape was obtain in QGIS by digitizing a few features and doing a couple of "merge selected features" operations, so really nothing uncommon.

#4 - 2012-05-12 01:45 AM - Alexander Bruy

Salvatore Larosa wrote:

I don't think that the problem is the MultiGeometries:

[...]

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Well, take a look at geometry with FID = 1. This one is MultiGeometry and you can easy check this in Python console

```
>>> layer = qgis.utils.iface.mapCanvas().currentLayer()
>>> ft = QgsFeature()
>>> layer.featureAtId(1, ft)
True
>>> ft.geometry().wkbType()
```

Giovanni Manghi wrote:

this line shape was obtain in QGIS by digitizing a few features and doing a couple of "merge selected features" operations, so really nothing uncommon.

Ah, so root of the problem is that "merge selected features" sometimes creates MultiGeometries (e.g. when there is a small distance between two features. Maybe when snapping is not used during digitizing, or something like this)

#5 - 2012-05-12 01:49 AM - Alexander Bruy

Anyway I add MultiLineString support in commit:033d58d454, and now attached file processed correctly. Now working on MultiPolygon support

#6 - 2012-05-12 03:32 AM - Salvatore Larosa

- File LinestringQGIS.png added

Alexander Bruy wrote:

```
Well, take a look at geometry with FID = 1. This one is MultiGeometry and you can easy check this in Python console [...]
```

Right, thanks!

Anyway I noticed that imports shp in PostGIS, densify tool works succesfully this because the geometries are MultiLinestring!

I don't know why in QGIS (see image) and ogrinfo, it is consider like a LineString geometry type!!!

#7 - 2012-05-12 04:07 AM - Salvatore Larosa

Well,

FID 0,2,3 wkbType() returns 2 and isMultipart() returns False;

FID 1 wkbType() returns 5 and isMultipart() returns True.

Is it conceptually correct?

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Now I begin to understand the issues #5547, #5328! Could help Jürgen's fix(#5109)?

#8 - 2012-05-12 04:19 AM - Alexander Bruy

- Status changed from Open to Closed
- Resolution set to fixed

As I understand, shapefile can contain in LineString layer also MultiLineString geometries, and in MultiLineString layer simple LineString geometries (same for points and polygons). "Merge selected features" tool sometimes (when input features have some distance between them) produces multi-geometry. Modifying shapefile didn't change it type, so it continues to report old LineString type.

Multipolygon support added in commit:2607535b3f, so I close this ticket. Please reopen if necessary

#9 - 2012-05-13 01:54 AM - Giovanni Manghi

Alexander Bruy wrote:

As I understand, shapefile can contain in LineString layer also MultiLineString geometries, and in MultiLineString layer simple LineString geometries (same for points and polygons). "Merge selected features" tool sometimes (when input features have some distance between them) produces multi-geometry. Modifying shapefile didn't change it type, so it continues to report old LineString type.

Multipolygon support added in commit:2607535b3f, so I close this ticket. Please reopen if necessary

Hi Alex, thanks for this! I will give it a try asap!

#10 - 2017-05-01 01:22 AM - Giovanni Manghi

The "ftools" category is being removed from the tracker, changing the category of this ticket to "Processing/QGIS" to not leave the category orphaned.

Files

55.png	21.9 KB	2012-05-11	Giovanni Manghi
caminhos_shp.zip	3.07 KB	2012-05-11	Giovanni Manghi
LinestringQGIS.png	131 KB	2012-05-12	Salvatore Larosa

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