

QGIS Application - Feature request #278

2.5D/3D geometry support

2006-09-20 05:16 AM - holl-gdf-hannover-de -

Status: Closed	
Priority: Low	
Assignee: Marco Hugentobler	
Category:	
Pull Request or Patch supplied:	Resolution: fixed
Easy fix?: No	Copied to github as #: 10337
Description	
<p>Hi developers,</p> <p>currently I am writing a plugin for Oracle-access (similar to the postgres) through OGR. Loading a vector using <code>[[Qgisiface]]::addVectorLayer()</code> works partly, the attribute-table gets populated with the correct attributes, but the geometry is unknown to QGIS.</p> <p>The shell displays the following warning:</p> <pre>[...] UNKNOWN WKBTYPED ENCOUNTED [...] UNKNOWN WKBTYPED ENCOUNTED Debug: qgsogrprovider.cpp: 581: (getNextFeature) Feature is null Debug: qgsvectorlayer.cpp: 948: (draw) Total features processed is 458 Debug: qgsmaprender.cpp: 285: (render) [[QgsMapRender]]::render: Done [...]</pre> <p>Indeed, when I use ogrinfo to query my layers in Oracle it recognizes it at Geometry: Unknown (any).</p> <p>I discussed this with Marco Off-list and he pointed out that QGIS cannot handle 3d geometry currently. But OGR supports the following geometries so it could be included in QGIS as well:</p> <pre>typedef enum { wkbUnknown = 0, /* non-standard */ wkbPoint = 1, /* rest are standard WKB type codes */ wkbLineString = 2, wkbPolygon = 3, wkbMultiPoint = 4, wkbMultiLineString = 5, wkbMultiPolygon = 6, wkbGeometryCollection = 7, wkbNone = 100, /* non-standard, for pure attribute records */ wkbLinearRing = 101, /* non-standard, just for createGeometry() */ wkbPoint25D = 0x80000001, /* 2.5D extensions as per 99-402 */ wkbLineString25D = 0x80000002, wkbPolygon25D = 0x80000003, wkbMultiPoint25D = 0x80000004, wkbMultiLineString25D = 0x80000005,</pre>	

```
wkbMultiPolygon25D = 0x80000006,  
wkbGeometryCollection25D = 0x80000007  
} OGRwkbGeometryType;
```

In future Versions it would be nice to have this included in QGIS, so that at least 25d layers could be loaded.

Best regards

Stephan

History

#1 - 2006-09-21 06:40 AM - holl-gdf-hannover-de -

Hi devs,

some additional hints, I have asked at the gdal-dev-list1.

<Frank Warmerdam>

I am not aware of a dependable way of determining the geometry type of an oracle geometry column. So the driver just returns wkbUnknown which means any geometry type may appear.

This is not uncommon with different kinds of drivers, so if QGIS can't handle it, I think QGIS should be improved.

</Frank Warmerdam>

So this means QGIS should be extended in that way, that a provider/plugin can pass a geometry-type to `[[QgisIface]]::addVectorLayer` if possible?

Stephan

r1 <http://lists.maptools.org/pipermail/gdal-dev/2006-September/010130.html>

#2 - 2006-09-28 12:41 AM - Martin Dobias

Initial support for 2.5D geometries has been added in order to fix #308. This support is now just basic to allow layers to be displayed. Z values are completely ignored.

#3 - 2006-12-03 03:48 AM - Marco Hugentobler

- Resolution set to fixed

- Status changed from Open to Closed

#4 - 2009-08-22 12:45 AM - Anonymous

Milestone Version 0.9 deleted