

## QGIS Application - Bug report #8232

### QgsVectorDataProvider.uniqueValues() crash if there is a NULL value in selected index field

2013-07-07 08:11 AM - Daniel Vaz

|                                                                                                                                                                                                                                                                          |         |                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------|
| <b>Status:</b>                                                                                                                                                                                                                                                           | Closed  |                                     |
| <b>Priority:</b>                                                                                                                                                                                                                                                         | High    |                                     |
| <b>Assignee:</b>                                                                                                                                                                                                                                                         |         |                                     |
| <b>Category:</b>                                                                                                                                                                                                                                                         | Vectors |                                     |
| <b>Affected QGIS version:</b>                                                                                                                                                                                                                                            | master  | <b>Regression?:</b> No              |
| <b>Operating System:</b>                                                                                                                                                                                                                                                 | Linux   | <b>Easy fix?:</b> No                |
| <b>Pull Request or Patch supplied:</b>                                                                                                                                                                                                                                   | No      | <b>Resolution:</b> up-/downstream   |
| <b>Crashes QGIS or corrupts data:</b>                                                                                                                                                                                                                                    | Yes     | <b>Copied to github as #:</b> 17044 |
| <b>Description</b>                                                                                                                                                                                                                                                       |         |                                     |
| <p>If there are NULL values in field of a shapefile, the python Qgis API method <code>QgsVectorDataProvider.uniqueValues</code> raises a segmentation fault.</p> <p>There is sample dataset attached and a python standalone minimal application that shows the bug.</p> |         |                                     |

#### Associated revisions

**Revision bf1d1b04 - 2013-07-08 10:34 PM - Jürgen Fischer**

ogr provider: avoid GDAL #4509 (fixes #8232)

#### History

**#1 - 2013-07-07 08:14 AM - Daniel Vaz**

This bug was found while attempt to solve the bug #8219.

**#2 - 2013-07-07 03:02 PM - Daniel Vaz**

- File *bug8232.cpp* added

The main cause is underlying c++ code. The following code attached shows the bug in c++

**#3 - 2013-07-07 03:30 PM - Jürgen Fischer**

- Resolution set to up-/downstream

apparently a GDAL/OGR problem:

```
$ ogrinfo -sql 'SELECT DISTINCT "name" FROM "polygons" ORDER BY name ASC' .
```

```
INFO: Open of `.
```

```
using driver `ESRI Shapefile' successful.
```

```
Layer name: polygons
```

```
Geometry: Polygon
```

```
Segmentation fault (core dumped)
```

**#4 - 2013-07-07 03:37 PM - Jürgen Fischer**

- Subject changed from Python API QgsVectorDataProvider.uniqueValues() crash if there is a NULL value in selected index field to QgsVectorDataProvider.uniqueValues() crash if there is a NULL value in selected index field

**#5 - 2013-07-07 03:37 PM - Jürgen Fischer**

- Category changed from Python plugins to Vectors

**#6 - 2013-07-07 04:23 PM - Jürgen Fischer**

Reproducible with GDAL 1.9, but not 1.10.

**#7 - 2013-07-08 12:46 PM - Daniel Vaz**

I think that bug was fixed in [GDAL I#4509](#)

**#8 - 2013-07-08 01:35 PM - Jürgen Fischer**

- Status changed from Open to Closed

Fixed in changeset commit:"bf1d1b0453ba5bc274cc3a960a2cb6de4e061ee4".

| Files                         |           |            |            |
|-------------------------------|-----------|------------|------------|
| polygons.zip                  | 1.91 KB   | 2013-07-07 | Daniel Vaz |
| test_qgsvectordataproducer.py | 488 Bytes | 2013-07-07 | Daniel Vaz |
| bug8232.cpp                   | 807 Bytes | 2013-07-07 | Daniel Vaz |