QGIS Application - Bug report #9543
VRT vector file don't recognize relative path

2014-02-12 01:34 AM - Regis Haubourg

Status:	Closed		
Priority:	Normal		
Assignee:			
Category:	Data Provider/OGR		
Affected QGIS version:	2.0.1	**Regression?:**	No
Operating System:		**Easy fix?:**	No
Pull Request or Patch supplied:	No	**Resolution:**	up/downstream
Crashes QGIS or corrupts data:	No	**Copied to github as #:**	18130

Description

Hi, I build here a vrt on a simple csv file, and QGIS opens it correctly only if I put a absolute file in datasource. Ogrinfo works correctly when using relative paths.. So it is probably related to QGIS method to call GDAL vrt.

```
<OGRVRTDataSource>
  <OGRVRTLayer name="cotieres">

    <SrcDataSource>V:\\temp_user\\cwbody.csv</SrcDataSource> -- OK
    <SrcDataSource>cwbody.csv</SrcDataSource> -- NOT WORKING

    <SrcSQL>select "EU_CD", CAST("LAT" as numeric(8,5)) AS "LAT", CAST("LON" as numeric(8,5)) AS "LON" from cwbody
</SrcSQL>
    <GeometryType>wkbPoint</GeometryType>
    <LayerSRS>EPSG:4326</LayerSRS>
    <GeometryField encoding="PointFromColumns" x="LON" y="LAT"/>
  </OGRVRTLayer>
</OGRVRTDataSource>
```

History

#1 - 2014-02-12 07:44 AM - Etienne Tourigny

I assume the .csv and .vrt file are in the same directory?

Perhaps you are missing the relativeToVRT tag in SrcDataSource?

[1] lists it as optional, but it might be necessary in this case to work in qgis?

[1] http://www.gdal.org/ogr/drv_vrt.html

#2 - 2014-02-12 07:54 AM - Etienne Tourigny

- Status changed from Open to Feedback

Works for me using both relative and absolute path in linux using 2.0.1 and (mostly) recent master, with this .csv file

```
LAT,LON
0.1,0.2
```

0.4,0.8

what is the content of your csv file?

#3 - 2014-02-12 08:22 AM - Etienne Tourigny

- Operating System set to windows

- Status changed from Feedback to Open

I confirm the issue on windows with qgis-dev, using osgeo4w 32 bit installer. ogrinfo can read both datasets, but qgis does not identify the vrt file with relative path

#4 - 2014-02-13 12:57 AM - Regis Haubourg

Hi, explicitly setting datasource tag to <SrcDataSource relativeToVRT="1">cwbody.csv</SrcDataSource> does the trick.
Strange behaviour from a user point of view. If behaviour differs between linux and windows, this could be due to bad handling of UNC path in Windows? Cheers.

#5 - 2014-02-13 04:01 AM - Etienne Tourigny

Perhaps the difference is that the current directory is not set to that of the .vrt file in windows, whereas it is in linux.

Sorry I cannot help implementing a fix, someone why works with windows builds should do that.

Anyway, there is a simple workaround.

#6 - 2014-02-13 04:17 AM - Etienne Tourigny

- Operating System deleted (windows)

actually, I was wrong, issue also exists in Linux. I was running qgis from the directory where the .vrt and .csv files reside. If you open from other dir or application launcher, the problem manifests.

On a side note, when you use gdal_translate to create a vrt file, relativeToVRT is set to "1" so I guess the same should be applied to ogr vrt files.

So I'm not sure this should be fixed, but rather relativeToVRT should be set in your file.

#7 - 2014-06-21 03:18 AM - Jürgen Fischer

- Category set to Data Provider/OGR

- Resolution set to up/downstream

#8 - 2014-06-23 07:10 AM - Regis Haubourg

- Status changed from Open to Closed

Workaround is sufficient.