

QGIS Application - Bug report #20104

GDAL data provider cache is not cleared after triggerRepaint

2018-10-14 03:34 PM - Radek Pasiok

Status: Closed	
Priority: Normal	
Assignee: Even Rouault	
Category: Data Provider	
Affected QGIS version: 3.3(master)	Regression?: No
Operating System: Observed on Windows 7 and Ubuntu 18	Easy fix?: No
Pull Request or Patch supplied: No	Resolution:
Crashes QGIS or corrupts data: No	Copied to github as #: 27926
Description	
<p>While porting Serval plugin [1] to QGIS 3.2 I have discovered that after a raster datasource is modified and triggerRepaint() is called [2] the provider cache is not cleared properly. As a consequence, map canvas will display old and new raster cells values at different zoom levels.</p> <p>When the provider cache is not used, i.e. when QgsGdalProvider::getCachedGdalHandles would be set to only return false, then canvas properly display new cell values at all zoom levels.</p> <p>Steps to reproduce:</p> <ol style="list-style-type: none">1. Add a raster to QGIS project, for example band1_byte_ct_epsg4326.tif from QGIS test data.2. In the Python console run:<pre>rlyr = iface.activeLayer() rdp = rlyr.dataProvider() dtype = rdp.dataType(1) rdp.setEditable(True) rblock = QgsRasterBlock(dtype, 1, 1) rblock.setValue(0, 0, 255) rdp.writeBlock(rblock, 1, 0, 0) rdp.setEditable(False) rlyr.triggerRepaint()</pre>3. Zoom in and out a bit to left upper raster corner to see different values of the first cell at different zoom levels. <p>[1] https://github.com/erpas/serval/tree/QGIS_3_port</p> <p>[2] https://github.com/erpas/serval/blob/a7ebbf7653715ebdcaf7b59ee9d069ce895a91b/serval.py#L366</p>	

Associated revisions

Revision e7d15b64 - 2018-10-14 05:50 PM - Even Rouault

[GDAL provider] Make sure that setEditable(true) invalides cached GDAL handles to get proper refresh (fixes #20104)

Revision d5e57d31 - 2018-10-15 11:10 AM - Even Rouault

Merge pull request #8186 from rouault/fix_20104

[GDAL provider] Make sure that setEditable(true) invalides cached GDAL handles to get proper refresh (fixes #20104)

History

#1 - 2018-10-14 05:51 PM - Even Rouault

- *Status changed from Open to In Progress*

<https://github.com/qgis/QGIS/pull/8186/>

#2 - 2018-10-15 11:09 AM - Even Rouault

- *% Done changed from 0 to 100*

- *Status changed from In Progress to Closed*

Applied in changeset commit:qgis|e7d15b64951da2d7efba0d32e40cb294aefcd9db.