

## QGIS Application - Bug report #20104

### GDAL data provider cache is not cleared after triggerRepaint

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

<b>Status:</b>	Closed	
<b>Priority:</b>	Normal	
<b>Assignee:</b>	Even Rouault	
<b>Category:</b>	Data Provider	
<b>Affected QGIS version:</b>	3.3(master)	<b>Regression?:</b> No
<b>Operating System:</b>	Observed on Windows 7 and Ubuntu 18	<b>Easy fix?:</b> No
<b>Pull Request or Patch supplied:</b>	No	<b>Resolution:</b>
<b>Crashes QGIS or corrupts data:</b>	No	<b>Copied to github as #:</b> 27926

#### Description

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.

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.

Steps to reproduce:

1. Add a raster to QGIS project, for example band1\_byte\_ct\_epsg4326.tif from QGIS test data.
2. In the Python console run:

```
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()
```

3. Zoom in and out a bit to left upper raster corner to see different values of the first cell at different zoom levels.

[1] [https://github.com/erpas/serval/tree/QGIS\\_3\\_port](https://github.com/erpas/serval/tree/QGIS_3_port)

[2] <https://github.com/erpas/serval/blob/a7ebba7653715ebdca7b59ee9d069ce895a91b/serval.py#L366>

#### 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

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### #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.