

QGIS Application - Bug report #21978

GDALTools - Processing dialog: Generates file names not enclosed, wrong options, and lacks free option support

2019-05-02 05:18 PM - Sfkeller -

Status:	Closed	
Priority:	Normal	
Assignee:		
Category:	GDAL Tools	
Affected QGIS version:	3.6.2	Regression?: No
Operating System:		Easy fix?: No
Pull Request or Patch supplied:		Resolution: invalid
Crashes QGIS or corrupts data:		Copied to github as #: 29793
Description		
<p>Bug and feature request related to processing tool "GDAL Grid (Nearest Neighbor)" and possibly any other Grid processing tool.</p> <p>Test case and goal is to call e.g. "gdal_grid" as follows:</p> <pre>gdal_grid -a nearest:radius1=1:radius2=1:nodata=-99 \ -txe 50 350 -tye 650 450 -outsize 3 2 -zfield z \ "grid in.gpkg" "grid out.tif"</pre> <p>1. (Bug) In file and out file names should be enclosed by parantheses, since they can contain white spaces (at least under Windows).</p> <p>GDAL (e.g. gdal_grid) options like "-txe 50 350 -tye 650 450 -outsize 3 2" are unreachable in GUI.</p> <p>2. (Bug) Using GUI section "Additional generation options [optional]" it currently generates wrong options like this "-co txe -co 50 -co 350 -co tye -co 650 -co 450 -co outsize -co 3 -co 2".</p> <p>3. (Feature Request) It should be possible for the user to enter options as plain text. Think e.g. about the GDAL/OGR -sql parameter.</p>		

History

- #1 - 2019-05-02 05:20 PM - Sfkeller -
- Subject changed from GDALTools - Grid: Options generate to GDALTools - Processing dialog: Generates file names not enclosed, wrong options, and lacks free option support
- #2 - 2019-05-02 06:16 PM - Giovanni Manghi
- Operating System deleted (all)
 - Status changed from Open to Feedback

Sfkeller - wrote:

Bug and feature request related to processing tool "GDAL Grid (Nearest Neighbor)" and possibly any other Grid processing tool.

hi, please 1 bug/feature request per ticket, thanks.

1. (Bug) In file and out file names should be enclosed by parantheses, since they can contain white spaces (at least under Windows).

I just tried on Windows, and cannot replicate. The generated command in my case was:

```
gdal_grid -l "test test" -zfield id -a invdistnn:power=2.0:smoothing=0.0:radius=1000.0:max_points=12:min_points=0:nodata=0.0 -ot Float32 -of GTiff  
"C:\\Users\\qgis\\Desktop\\test test.gpkg"  
C:/Users/qgis/AppData/Local/Temp/processing_57ac2b3dd6ce480db5e95e97965183b7/a4ee8a84c7a04b1a9b5b2c9149c079ee/OUTPUT.tif
```

and worked as expected (as you see the input path is correctly quoted so to handle spaces).

| GDAL (e.g. `gdal_grid`) options like `"-txe 50 350 -tye 650 450 -outsize 3 2"` are unreachable in GUI.

feature request.

| 2. (Bug) Using GUI section "Additional generation options [optional]" it currently generates wrong options like this `"-co txe -co 50 -co 350 -co tye -co 650 -co 450 -co outsize -co 3 -co 2"`.

how? the "Additional generation options [optional]" option has a few pre-defined lco (layer creation options), none of them looks like the ones you say. The user can manually add LCOs (they are related to the output format, not the gdal tool being used) and there is even a button the validate them before running the tool.

| 3. (Feature Request) It should be possible for the user to enter options as plain text. Think e.g. about the GDAL/OGR `-sql` parameter.

there is already a similar feature request.

#3 - 2019-05-02 08:38 PM - Sfkeller -

Thanks for taking care of this issue.

Sfkeller (I) - wrote:

| Bug and feature request related to processing tool "GDAL Grid (Nearest Neighbor)" and possibly any other Grid processing tool.

| Test case and goal is to call e.g. `"gdal_grid"` as follows:

```
gdal_grid -a nearest:radius1=1:radius2=1:nodata=-99 \  
-txe 50 350 -tye 650 450 -outsize 3 2 -zfield z \  
"grid in.gpkg" "grid out.tif"
```

| 1. (Bug) In file and out file names should be enclosed by parantheses, since they can contain white spaces (at least under Windows).

This is an example what QGIS generated in my case (the input file was a .CSV file:

```
gdal_grid -l None -a nearest:radius1=0.0:radius2=0.0:angle=0.0:nodata=0.0 -ot UInt16 -of GTiff -co txe=50 -co 350  
file:///C:/Daten/daten_eigene2/_Hektarraster/in%20file.csv?type=csv&delimiter=;&detectTypes=yes&xField=X&yField=Y&crs=EPSG:2056&spatialIndex=no&s  
lIndex=no&subsetIndex=no&watchFile=no  
C:/Users/sfkeller/AppData/Local/Temp/processing_8287a5d5d1714b048a483cbc87d6a053/785331c3e32e41ecb5c3807a7087257e/OUTPUT.tif  
if
```

As one can see `"file:///C:/Daten..."` is not quoted and leads to an error when executed.

GDAL (e.g. `gdal_grid`) options like `"-txe 50 350 -tye 650 450 -outsize 3 2"` are unreachable in GUI.

2. (Bug) Using GUI section "Additional generation options [optional]" it currently generates wrong options like this `"-co txe -co 50 -co 350 -co tye -co 650 -co 450 -co outsize -co 3 -co 2"`.

See example above where I entered (on purpose) "txe" as key option and "50 350" as value.
That is is probably covered by the feature request below.

3. (Feature Request) It should be possible for the user to enter options as plain text. Think e.g. about the GDAL/OGR `-sql` parameter.

Can't find a similar feature request. Have to double check again.

#4 - 2019-05-02 09:02 PM - Giovanni Manghi

```
gdal_grid -l None -a nearest:radius1=0.0:radius2=0.0:angle=0.0:nodata=0.0 -ot UInt16 -of GTiff -co txe=50 -co 350
file:///C:/Daten/daten_eigene2/_Hektarraster/in%20file.csv?type=csv&delimiter=;&detectTypes=yes&xField=X&yField=Y&crs=EPSG:2056&spatialIndex=no&
dex=no&subsetIndex=no&watchFile=no
C:/Users/sfkeller/AppData/Local/Temp/processing_8287a5d5d1714b048a483cbc87d6a053/785331c3e32e41ecb5c3807a7087257e/OUTPUT.tif
```

GDAL does not know anything (I guess) about what is a QGIS delimited text layer, so my bet is that this won't work anyway.

GDAL (e.g. `gdal_grid`) options like `"-txe 50 350 -tye 650 450 -outsize 3 2"` are unreachable in GUI.

2. (Bug) Using GUI section "Additional generation options [optional]" it currently generates wrong options like this `"-co txe -co 50 -co 350 -co tye -co 650 -co 450 -co outsize -co 3 -co 2"`.

See example above where I entered (on purpose) "txe" as key option and "50 350" as value.
That is is probably covered by the feature request below.

the "txe" parameter (for example) is a `gdal_grid` parameter, not a `lco` (layer creation option): LCOs are specific of the output format that is being used. For example if you are outputting to geotiff https://www.gdal.org/frmt_gtiff.html (see "creation options").

The parameters you are asking can be added anyway to the module GUI, please file a feature request.

3. (Feature Request) It should be possible for the user to enter options as plain text. Think e.g. about the GDAL/OGR `-sql` parameter.

Can't find a similar feature request. Have to double check again.

#11323

edit interactively the GDAL commands was possible in the now obsolete "GDAL tools" core plugin. In Processing this was never implemented as I think its not obvious.

#5 - 2019-05-03 11:40 AM - Sfkeller -

Thx. I've added a comment at #11323. You can close this ticket.

#6 - 2019-05-03 07:59 PM - Giovanni Manghi

- *Status changed from Feedback to Closed*

- *Resolution set to invalid*

Sfkeller - wrote:

| *Thx. I've added a comment at #11323. You can close this ticket.*

you need to open a feature request asking to add the parameters txe, tye, etc for the gdal_grid tools.