

QGIS Application - Feature request #13110

Georeferencer: Ability to produce compressed output

2015-07-11 10:01 AM - Bernd Vogelgesang

Status:	Open	Resolution: Copied to github as #: 21175
Priority:	Normal	
Assignee:		
Category:	C++ plugins/Georeferencer	
Pull Request or Patch supplied:		
Easy fix?:	No	
Description		
<p>I'm currently using the Georeferencer heavily to import scanned fieldmaps from A3 paper maps. As it is import to see every little detail, I scan those maps with 600dpi, saved as jpg.</p> <p>The only output option for the resulting raster is GeoTiff so far, which ends up in file sizes above 1 Gb, so I have to manually translate them with the raster tools to jpg to get 80 Mb files, which perform so much better in my cloud-synced work environment than the original monsters, which I than have to delete to save space.</p> <p>It would be very nice to be freed from these extra steps by getting the option to save to other formats than those huge GeoTiffs directly from within the Georeferencer.</p>		

History

#1 - 2015-07-16 03:13 PM - Jukka Rahkonen

As a workaround you can create a GDAL script and edit it before running it from command shell.

#2 - 2015-09-10 06:15 AM - Bernd Vogelgesang

Well, I'm not asking for workarounds, but for user-friendly compression methods by default. Normal users will not know how to use the shell, and it's really hard to find reliable informations which settings to use for best results.

Just tested again the output of the current georeferencer:  
Input is a 3.4 MB JPG 300dpi scan of a A3 fieldmap based on a topographic map (quite a common use case for the georeferencer I think)

I tested now the available "compressions":  
none: 52.2 MB  
deflate: 58.4 MB  
packbits: 60.0 MB  
LZW: 71.7 MB

So, rediculously, no compression has the best result, but still 15 times bigger than the original input.

I would propose some presets like:

- no compression for best quality as tif, so no harm is done
- preset for aerial images: sth like `gdal_translate -co COMPRESS=JPEG -co PHOTOMETRIC=YCBCR -co TILED=YES` -> this results in a 3.3 MB tif with no visible difference on the screen.
- aerial images with internal overviews: plus `gdaladdo --config COMPRESS_OVERVIEW JPEG --config PHOTOMETRIC_OVERVIEW YCBCR --config INTERLEAVE_OVERVIEW PIXEL -r average $tif 2 4 8 16` -> here 9.1 MB
- preset for topgraphic map ... (no idea)
- (put here your other experts ideas)

For me it seems that compression methods are highly disputable by the experts, and therefore, before offering sth "wrong", nothing is offered at all to the average user ...

But for everyday use, having the ability to compress the georeferenced input in one step would be very great and would relief us from "unnecessary" data and troublesome extra work!

**#3 - 2017-05-01 12:47 AM - Giovanni Manghi**

- *Easy fix? set to No*