

**NAME**

rgbgfx — Game Boy graphics converter

**SYNOPSIS**

```
rgbgfx [-DfFhPTv] [-o outfile] [-d depth] [-p palfile] [-t mapfile] [-x tiles]
file
```

**DESCRIPTION**

The **rgbgfx** program converts PNG images into the Nintendo Game Boy's planar tile format. The arguments are as follows:

- D     Debug features are enabled.
- f     Fix the input PNG file to be a correctly indexed image.
- F     Same as -f, but additionally, the input PNG file is fixed to have its parameters match the command line's parameters.
- d *depth*  
      The bitdepth of the output image (either 1 or 2). By default, the bitdepth is 2 (two bits per pixel).
- h     Lay out tiles horizontally rather than vertically.
- o *outfile*  
      The name of the output file.
- p *palfile*  
      Raw bytes (8 bytes for two bits per pixel, 4 bytes for one bit per pixel) containing the RGB15 values in the little-endian byte order and then ordered from lightest to darkest.
- P     Same as -p, but the palette file output name is made by taking the input filename, removing the file extension, and appending *.pal*.
- t *mapfile*  
      If any tiles are the same, don't place the repeat tiles in the output file, and make a tilemap file.
- T     Same as -t, but the tilemap file output name is made by taking the input filename, removing the file extension, and appending *.tilemap*.
- u     Truncate repeated tiles. Useful with tilemaps.
- v     Verbose. Print errors when the command line parameters and the parameters in the PNG file don't match.
- x *tiles*  
      Trim the end of the output file by this many tiles.

**EXAMPLES**

The following will take a PNG file with a bitdepth of 1, 2, or 8, and output planar 2bpp data:

```
$ rgbgfx -o out.2bpp in.png
```

The following creates a planar 2bpp file with only unique tiles, and its tilemap *out.tilemap*:

```
$ rgbgfx -T -u -o out.2bpp in.png
```

The following will do nothing:

```
$ rgbgfx in.png
```

**SEE ALSO**

*rgbds(7)*, *rgbasm(1)*, *rgblink(1)*, *rgbfix(1)*, *gbz80(7)*

**HISTORY**

**rgbgfx** was created by stag019 to be included in RGBDS. It is now maintained by a number of contributors at <https://github.com/rednex/rgbds>.