

Basic Raster Styling and Analysis

QGIS Tutorials and Tips



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□ □□□□□ Columbia University□ [Gridded Population of the World \(GPW\) v3](#) □□□□□ □□□ □□□□. □□, 1990□□ 2000□ □□□ ASCII □□□ □ □□□ □□□□ □□□ □□□□ □□□□□. □□□□ □□ □□□□ □□□ □□ □□□□□□□ □□□□□.

1. Go to the [Population Density Grid, v3 download page](#). Select the Data Attributes as .ascii format, 1° resolution and 1990 year. Click Download. At this point, you may create a free account and login, or use the Guest Download button at the bottom to immediately download the data. Repeat the process for 2000 year data.

Downloads

Recommended Citation:

Center for International Earth Science Information Network - CIESIN - Columbia University, and Centro Internacional de Agricultura Tropical - CIAT. 2005. Gridded Population of the World, Version 3 (GPWv3): Population Density Grid. NY: NASA Socioeconomic Data and Applications Center (SEDAC). <http://sedac.ciesin.columbia.edu/data/set/gpw-density>. Accessed DAY MONTH YEAR.

Download this Citation:

Please check the Research Note field for issues pertaining to importing authors that are organizations.

ENW

Use this format for EndNote and RefWorks software.

RIS

Use this format for ProCite, Reference Manager and Zotero software.

Data:

Geography:

Region
Global

Data Set:

Population Density Grid

Data Attributes:

.ascii
1°
1990

Download

 [feedback and support](#)

2000 000000 000000 00000.

For convenience, you may directly download a copy of the datasets from the links below:

[gl_gpww3_pdens_90_ascii_one.zip](#)

[gl_gpww3_pdens_00_ascii_one.zip](#)

0000 00 [GPW3]

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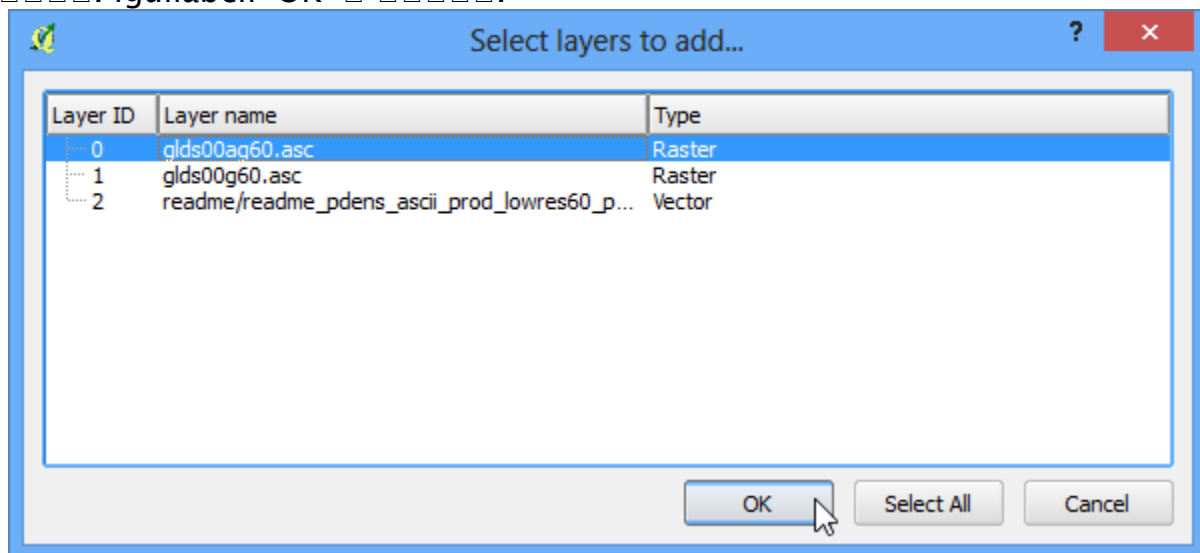
2. QGIS 000000 00 000 --> 000 000 00 :menuselection: `Layer --> Add Raster Layer..` 00000.



3. 00000 00000 0000. 0000 :kbd:`Ctrl` 0 0000 000 000000 00000. 0 0000 0
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4. a` UN glds00ag60.asc`
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5. CRS EPSG:4326`



6. 〇〇〇 〇〇〇〇 〇〇〇〇〇 〇〇 〇〇〇〇〇 〇〇 〇〇 〇〇〇. 〇〇 〇〇〇
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7. □□ □□ CRS□ `EPSG:4326`□ □□□□□.



8. QGIS를 사용하여 지도를 생성하고, 지도를 저장하고, 지도를 인쇄하는 방법을 설명하십시오. QGIS를 사용하여 지도를 생성하고, 지도를 저장하고, 지도를 인쇄하는 방법을 설명하십시오.



9. QGIS를 사용하여 지도를 생성하고, 지도를 저장하고, 지도를 인쇄하는 방법을 설명하십시오. QGIS를 사용하여 지도를 생성하고, 지도를 저장하고, 지도를 인쇄하는 방법을 설명하십시오. QGIS를 사용하여 지도를 생성하고, 지도를 저장하고, 지도를 인쇄하는 방법을 설명하십시오.



12. QGIS 0000 000 000. 0000 000 00 000 00 0 0 0000. 00 000 00 0000 00 00000.



14. In the Raster bands section, you can select the layer by double-clicking on them. The bands are named after the raster name followed by @ and band number. Since each of our rasters have only 1 band, you will see only 1 entry per raster. The raster calculator can apply mathematical operations on the raster pixels. In this case we want to enter a simple formula to subtract the 1990 population density from 2000. Enter *glds00ag60@1 - glds90ag60@1* as the formula. Name your output layer as *pop_density_change_2000_1990.tif* and check the box next to Add result to project. Click OK.



20. `guiabel: `Identify`` 工具按钮，用于识别地图上的点、线、面要素。
 该工具在 QGIS 的“工具箱”中，通常用于获取地图要素的属性信息。



21. `menuselection: Raster --> Raster calculator``



22. Enter the expression as shown below What this expression will do is set the value of the pixel to 1 if it matches the expression and 0 if it doesn't. So we will get a raster with pixel value of 1 where there was negative change and 0 where there wasn't. Name the output layer as *negative_pop_change_2000_1990* and check the box next to Add result to project. Click OK.

```
pop_density_change_2000_1990@1 < -10
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23. □□ □□ □□□□ □□□□□□. □□□ □□□ □□ □□ □□ :guilabel: `Properties` □ □□□□□. □□□ :guilabel: `Transparency` □□□ □□□□ no data value :guilabel: `Additional no data value` □ 0□ □□□□□. □□□ □□□ 0□ □□ □□ □□ □□□□ □□□□. :guilabel: `OK` □ □□□□□.



24. □□ □□□□□ □□□ □□□ □ □ □□□□.

