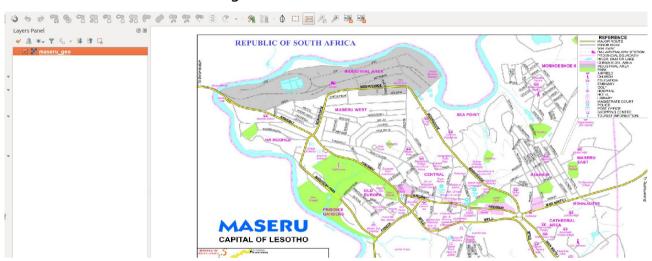


Module:Georeferencing

Georeferencing in Context

"Georeferencing is the process of assigning real world coordinates to a map so that it draws in its actual geographic position"

In this module we will learn how to georeference old scanned maps in QGIS. The maps are usually old topographic sheets or maps which are scanned to be used in a GIS or any other raster layer that have no geographic information. You cannot overlay other layers with a raster that has not been georeferenced.



You try:



Goal: To learn how to georeference a scanned map. This will enable overlay with other existing layers in the same CRS or different CRS

- * Add vector layer from natural earth data. Add a roads/building layers to use as reference. Lesotho is a country surrounded by South Africa
- * Enable on the fly projection
- * Activate georeference from plugins
- * Open the raster and specify the CRS for the
- * Digitize the raster and choose adequate
- control points and ensure the residuals are as low as possible

Check your results:

Once you have finished georeferencing

export the raster and it should overlay the layers loaded in QGIS

Name	Value
CRS	4326
Reference Layer	Vector from natural earth
Raster Operation	Georeferencing
Operation	On the fly projection
Raster	Lesotho.jpg

More about

It is important to understand that when you georeference a map you should use the CRS of the original map (if you know it). Georeferencing when done correctly will enable layers with different projections to be overlain together when on the fly projection is activated.



Check your knowledge:

- 1. Georeferencing allows us to:
- a) Assign real world coordinates to a map
- b) Enable map layers to be overlaid together once a raster image has been georeferenced.
- c) Only raster layers can be georeferenced.



Further reading:

https://docs.qgis.org/2.14/en/docs/training_manual/forestry/map_georeferencing.html https://www.ordnancesurvey.co.uk/support/understanding-gis/georeferencing.html http://www.ggistutorials.com/en/docs/advanced_georeferencing.html