QGIS_task1

1. Read data

- ***Add Delimited Text Layer***:“punktid.csv”
- ***Add Vector Layer*** “soomaa.shp”
- ***Add Raster Layer*** “korgusraster.tif*

2. Check Data and metadata of layers

- Check layer ***Properties*** (CRS)
- Check ***Attribute Table*** (Columns, values)

3. Reproject layers

- Set all layers to the same CRS (EPSG: 3301), use ***Reproject***, ***Warp***
- Save reprojected layers

4. Change symbology

Change the symbology of the layers:

- Points should represent the Esri_label
- Use a proper color ramp for the elevation raster

5. Use *Join Attributes by Location* to find which Points are inside the soomaa vector

6. Use *Extract by Attribute* to filter the points with "Crops" in the column "Esri_label"

7. Using the selected "Crops" points, create a *Buffer* of 10km around them

8. Use *Intersection* to see if any of the created Buffers intersects with the Soommaa layer. How large is the area? (*Field Calculator*)

9. Crop/*Mask* the elevation raster with the soomma vector layer

10. Raster

- Use ***Raster layer statistics*** to get a basic summary of the clipped Raster
- Use ***Reclassify by Table*** to create a new elevation (eesti.korgu)raster. Values <20 should be change to 0, values >= 20 should change to 20

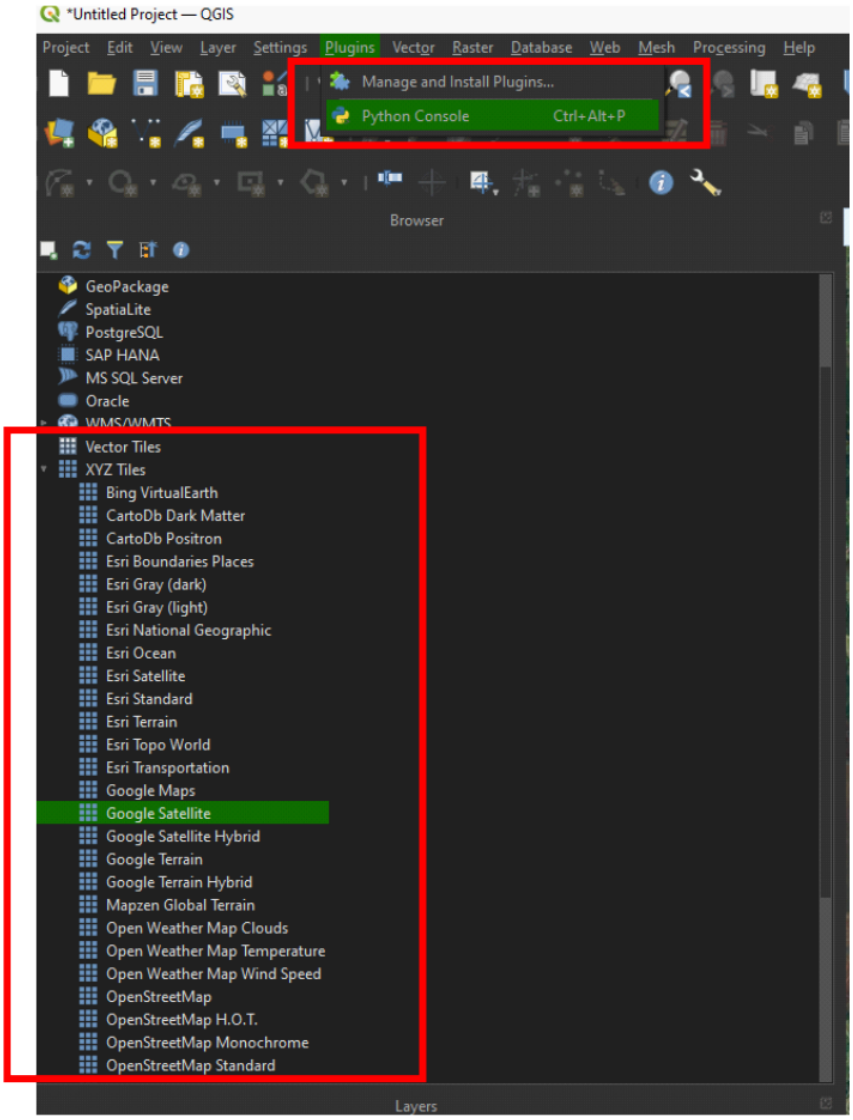
  OR

- Change the symbology of the elevation raster (eesti.korgu) so values >20 are in one color and values >= have another color

11. Map design

- Recreate the map #3 and map #5 of the R task (m3, m5)
- For map #3 change the symbology of the points so they represent the Corine_label
- A proper map for a cartographer should include a Title, North Arrow, a Scale Bar, and informative legends of what is represented.
- You can add a nice background layer. You can use the next steps for it (thanks to "Klas Karlsson":

  a) Open the link and copy the script from GitHub `link`
  b) In QGIS open the ***Python Console*** on the toolbar. Paste the script on the console and click Enter
  c) Close the python console
  d) On the Browser Panel, on the XYZ tiles section you should see now a set of layers. You can use this as Base maps (Figure 1)
  e) An alternative is to use a WMS from the "Estonian Land Board"


*Untitled Project — QGIS
Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh Processing Help
Manage and Install Plugins...
Python Console Ctrl+Alt+P
Browser
GeoPackage
SpatiaLite
PostgreSQL
SAP HANA
MS SQL Server
Oracle
WMS/WMTS
Vector Tiles
XYZ Tiles
Bing VirtualEarth
CartoDb Dark Matter
CartoDb Positron
Esri Boundaries Places
Esri Gray (dark)
Esri Gray (light)
Esri National Geographic
Esri Ocean
Esri Satellite
Esri Standard
Esri Terrain
Esri Topo World
Esri Transportation
Google Maps
Google Satellite
Google Satellite Hybrid
Google Terrain
Google Terrain Hybrid
Mapzen Global Terrain
Open Weather Map Clouds
Open Weather Map Temperature
Open Weather Map Wind Speed
OpenStreetMap
OpenStreetMap H.O.T.
OpenStreetMap Monochrome
OpenStreetMap Standard
Layers