

## Assignment 3

This assignment is mandatory to submit but the grades are U or G. Download the data at maps.slu or <https://www.lansstyrelsen.se/dalarna/om-oss/vara-tjanster/oppna-data.html> You may also use the provide data. Create a symbology using the downloaded data where you visually display either choropleth or isarithm karta. To create new fields, it is recommended to use QGIS. There is a short tutorial to this tool on Canvas. If you aim to create new fields and populate them with new data, turn to this tutorial. Show some thematical representation within the map, e.g. the sorted counties according to the size of the Area, number of cars per family in European countries or in Sweden. Use your ideas. If no such data is available, use SCB to collect the information and add the values to the data by yourself.

there should be capabilities such as:

- The chose of the layer is not static, but based on the name of the layer
- Spatial relationship is clearly defined, such as a theme within some boundary.
- Test if the layer is of some particular geometry and if it is, apply an appropriate style. This test can be done using Describe (se previous labs. )  

```
desc = arcpy.Describe('C:/shapefile.shp')  
geometryType = desc.shapeType  
if geometryType == 'polygon':  
    ...  
    ...
```
- The choice of colors should be motivated using the lecture notes and the purpose of the map.

Add code and print screens of the resulting map.