

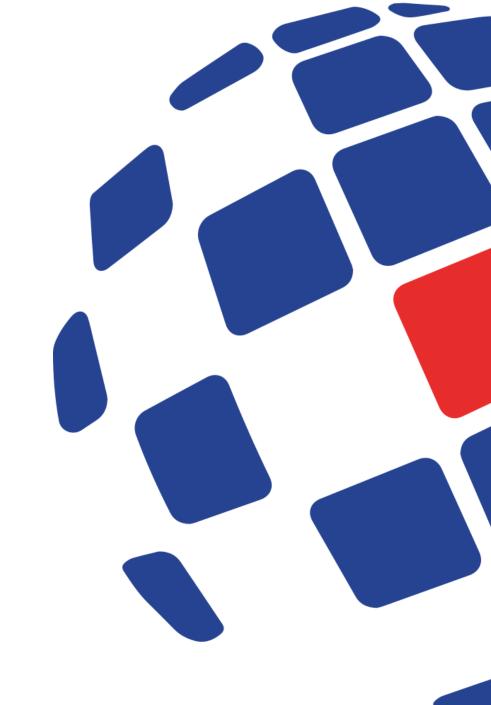


October 2023 - Barbados

GIS Data: Vectors

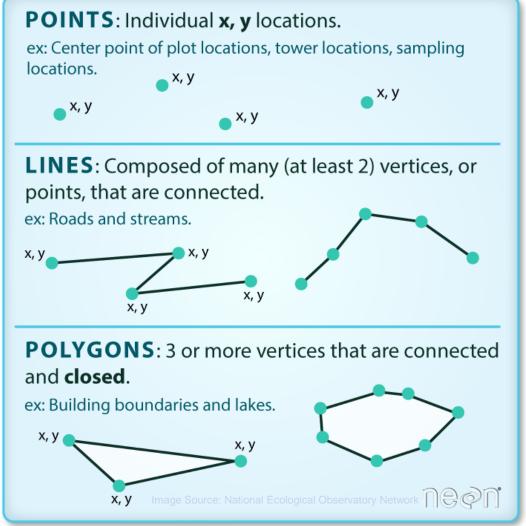






Vector Data - Structure





Vector data (point, line or polygon) are all made up of series of points or vertices

Each individual point, line or polygon has separate line in the attribute table where information about the object is stored

The most popular data format for vector data is the Shapefile (Shp)

https://datacarpentry.org/organization-geospatial/02-intro-vector-data/

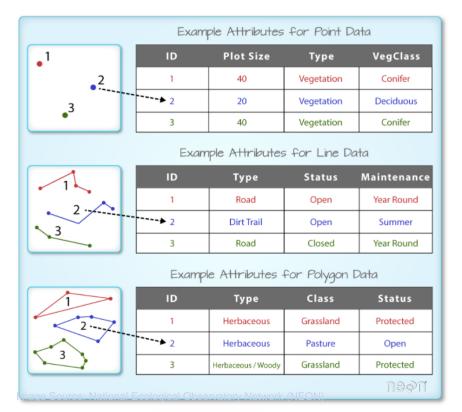


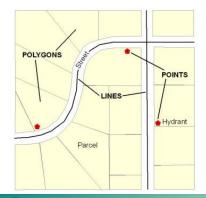




Vector Data

- Features represented by series of coordinates
- Features have attribute information in tables
- Generic term is vector data













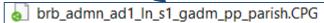


GIS Mapping Data Formats



VECTOR DATA

- GPX GPS standard format
- KML/KMZ Google Earth/Map
- ShapeFile SHP ESRI widely used multiple files
- QGIS Geopackage ESRI Geodatabase
- Excel.xlsx, CSV, DBF



- brb_admn_ad1_ln_s1_gadm_pp_parish.dbf
- 🔰 brb_admn_ad1_ln_s1_gadm_pp_parish.prj
- brb_admn_ad1_ln_s1_gadm_pp_parish.sbn
- brb_admn_ad1_ln_s1_gadm_pp_parish.sbx
- brb_admn_ad1_ln_s1_gadm_pp_parish.shp
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- brb_admn_ad1_ln_s1_gadm_pp_parish.shx





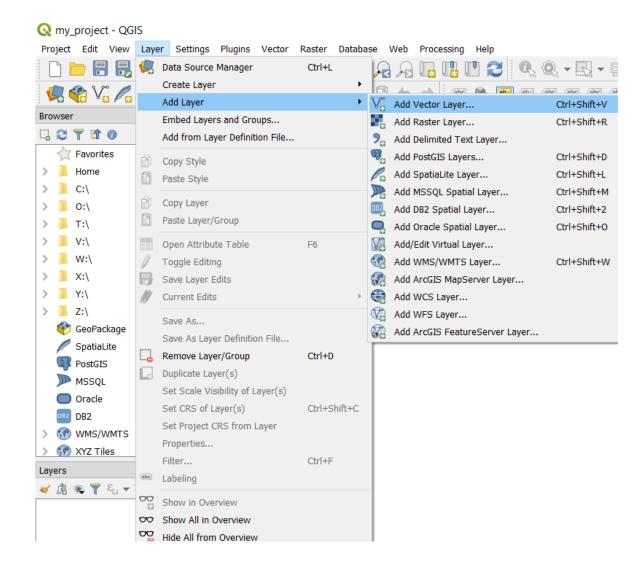


Adding Vector Data



Adding SHAPE file

- Add Layer
- Add Vector Layer









Add Data

Directory Database Protocol: HTTP(S), cloud, etc. Raster Encoding Automatic Mesh Source

Q Data Source Manager | Vector

Source Type

Vector Dataset(s)





• Source Type: File

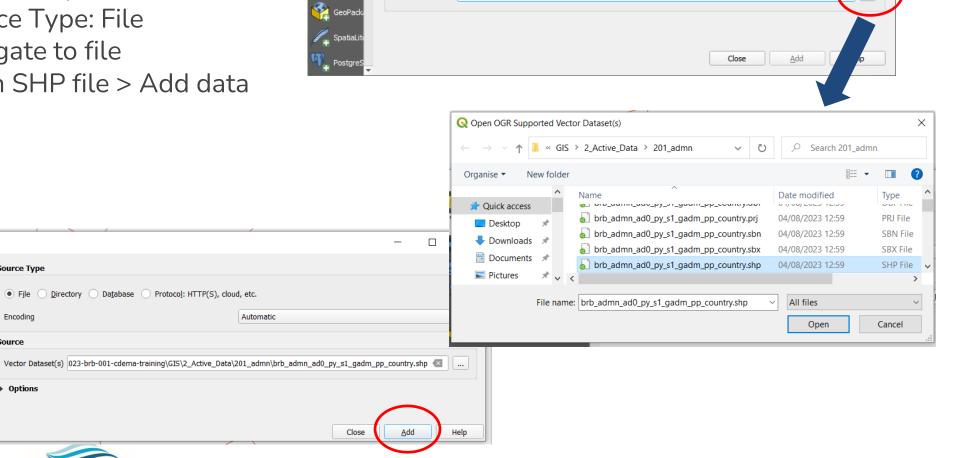
Source Type

Encoding

▶ Options

Source

- Navigate to file
- Open SHP file > Add data





Q Data Source Manager | Vector

Browser

Point Cloud

🤗 GeoPackage

GPS

Delimited Text

V☐ Vector



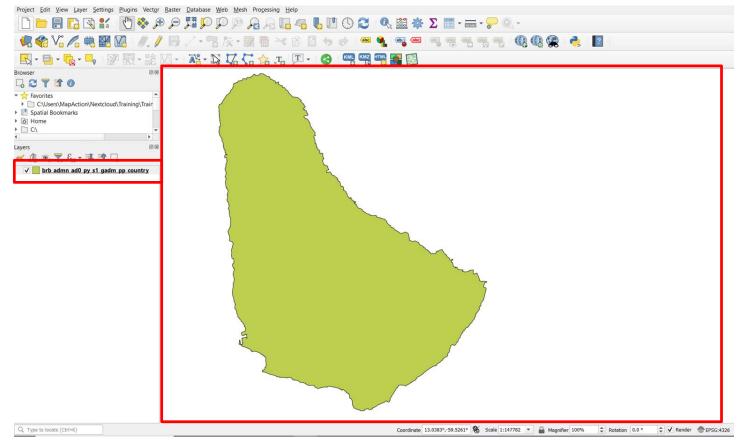
Directory



Add Data



- The layer had been added to the map window
- The name is also shown in the layer list panel







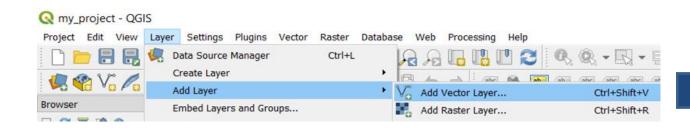


Conclusion

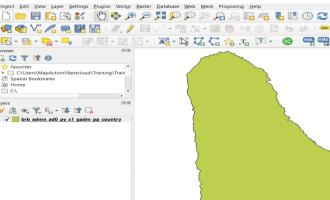


We have now looked at the following features:

- Vector data
- How to add a vector shape file to the project













This programme is gratefully supported by







mapaction.org