

GEOG0113: GEOGRAPHY IN THE FIELD

INTRODUCTION TO GIS & MAPPING

TYPES OF SPATIAL DATA & LOADING THEM TO ARCGIS

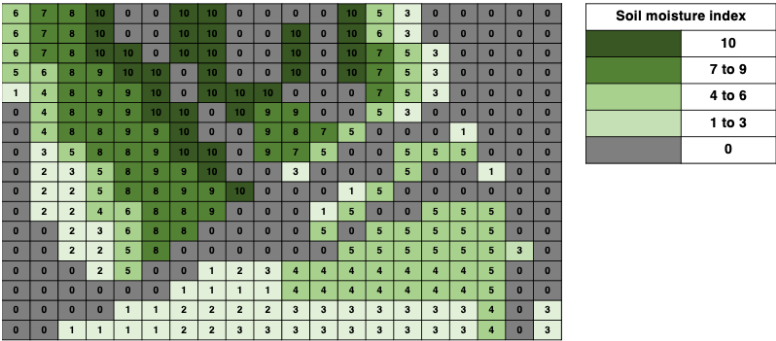
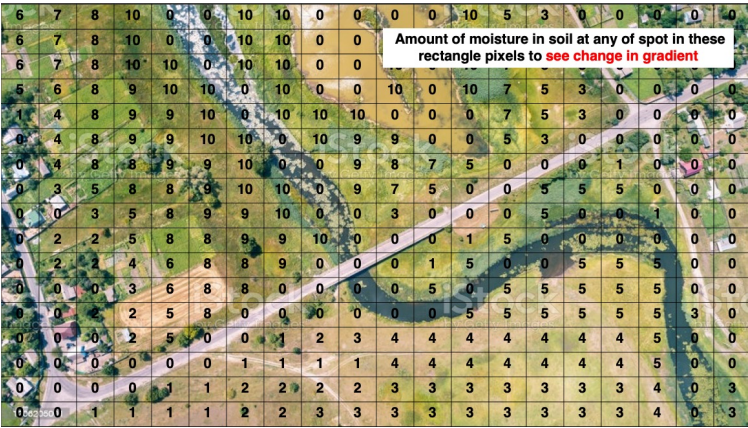
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Types of Spatial Data

Type of Vector		Examples
Points	●	e.g., Sites, Locations etc.
Line segments	—	e.g., Rivers, roads, rail tracks, Strava route etc.
Polygons	□	e.g., Postcode, District, Country etc.

Vector

Vectors represent single or discrete features in geographical space



Raster

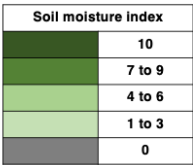
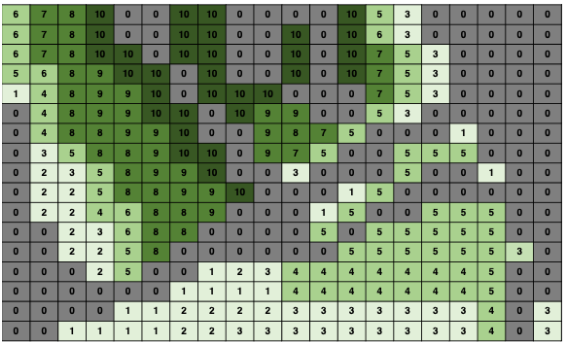
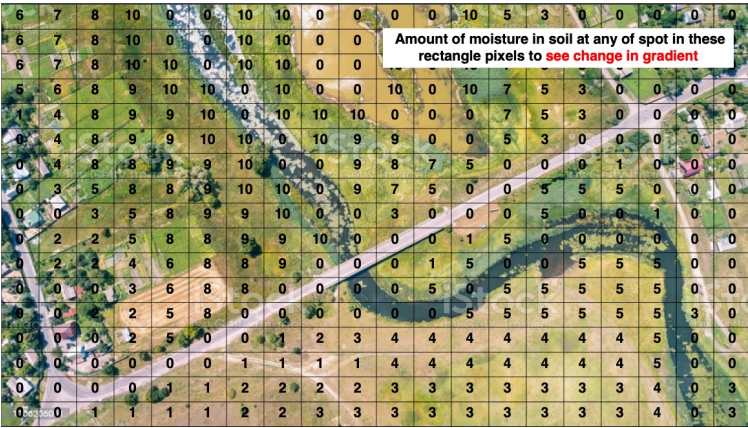
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Notes:

Vector data are stored usually as a **shape file** or **GPS Exchange Format file**

- Shapefile is has an extension of **.shp** but it comes with 3-5 other files which must be kept to together or you cannot open it (i.e., **.shx, .dbf, .cpg, .prj**)
- The GPS Exchange Format file has an extension of **.gpx**. You usually get this format if spatial data is exported out of some application.

Any questions?

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