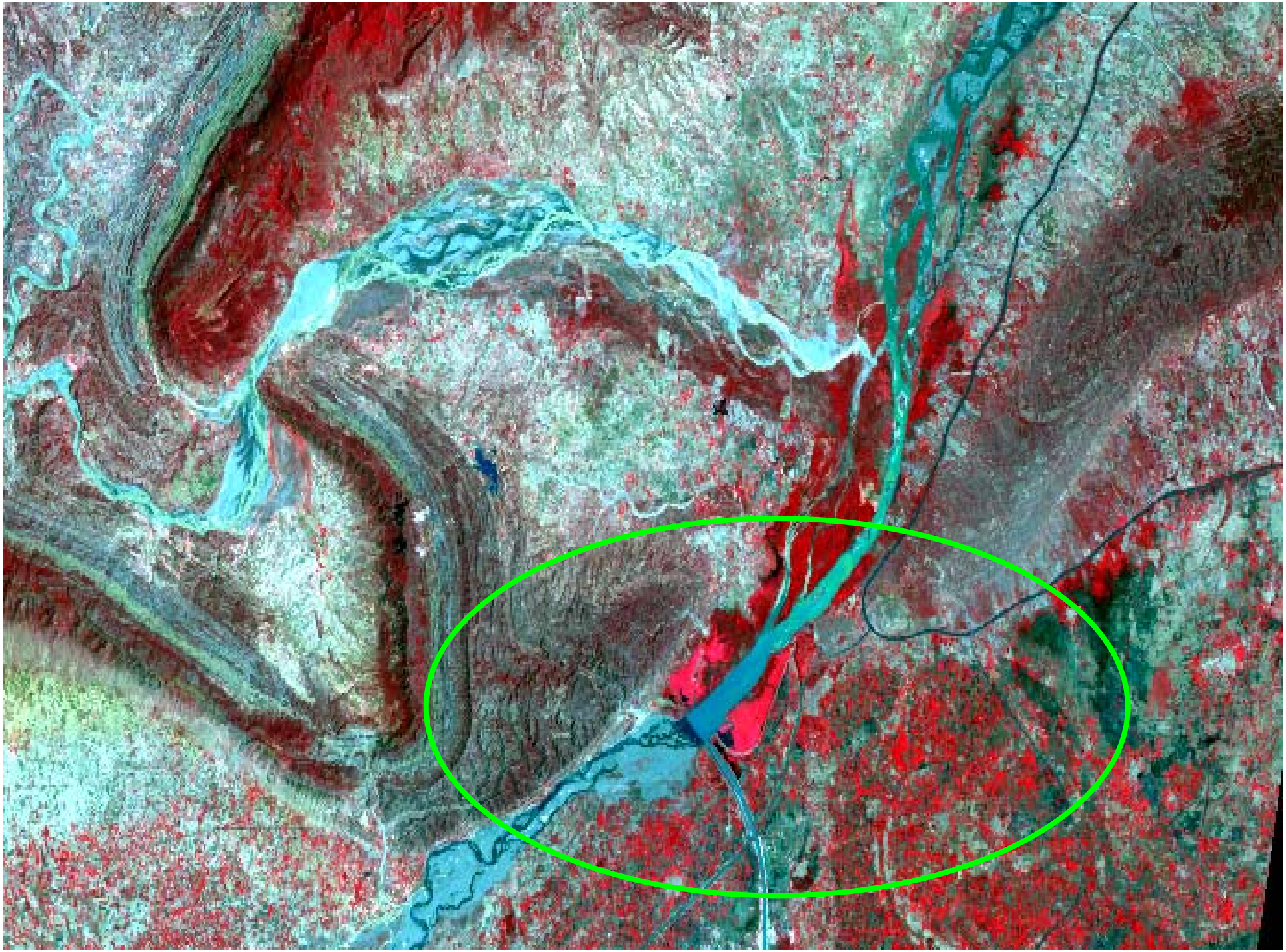
REPRESENTATION OF GEOGRAPHIC DATA

Vector Graphics:

- Images are built-up from points, lines(segments) and areas (Polygons).
- Each defined by pair of X-Y co-ordinates.
- Preparing a map by digitization is converted into vector data in computer.

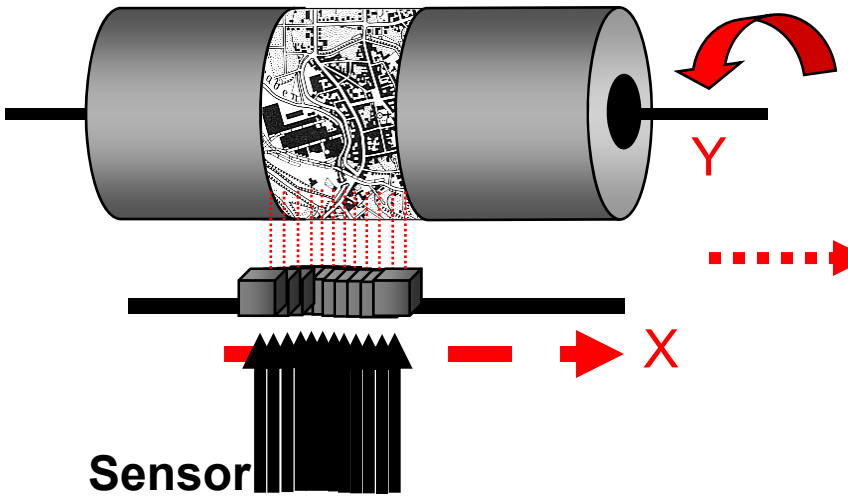
Raster Graphics:

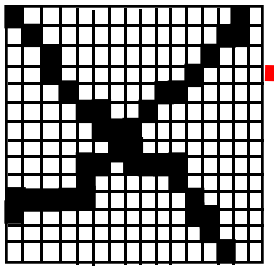
- Images are built-up from cells which is called as Pixels.
- In raster graphics, the smaller the area of land that each cell represents, the higher the resolution of the data and higher the spatial accuracy, ultimately the larger the files needed to store the data.



SPATIAL DATA INPUT

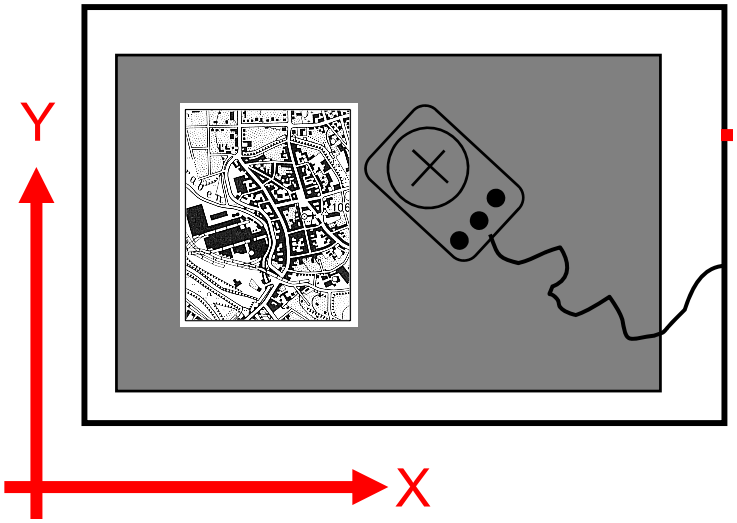
Scanning (automatic digitizing)

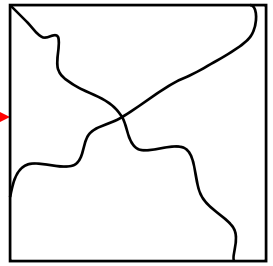




Raster model

Manual digitizing



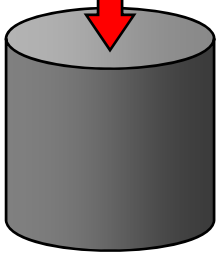


Vector model

Editing

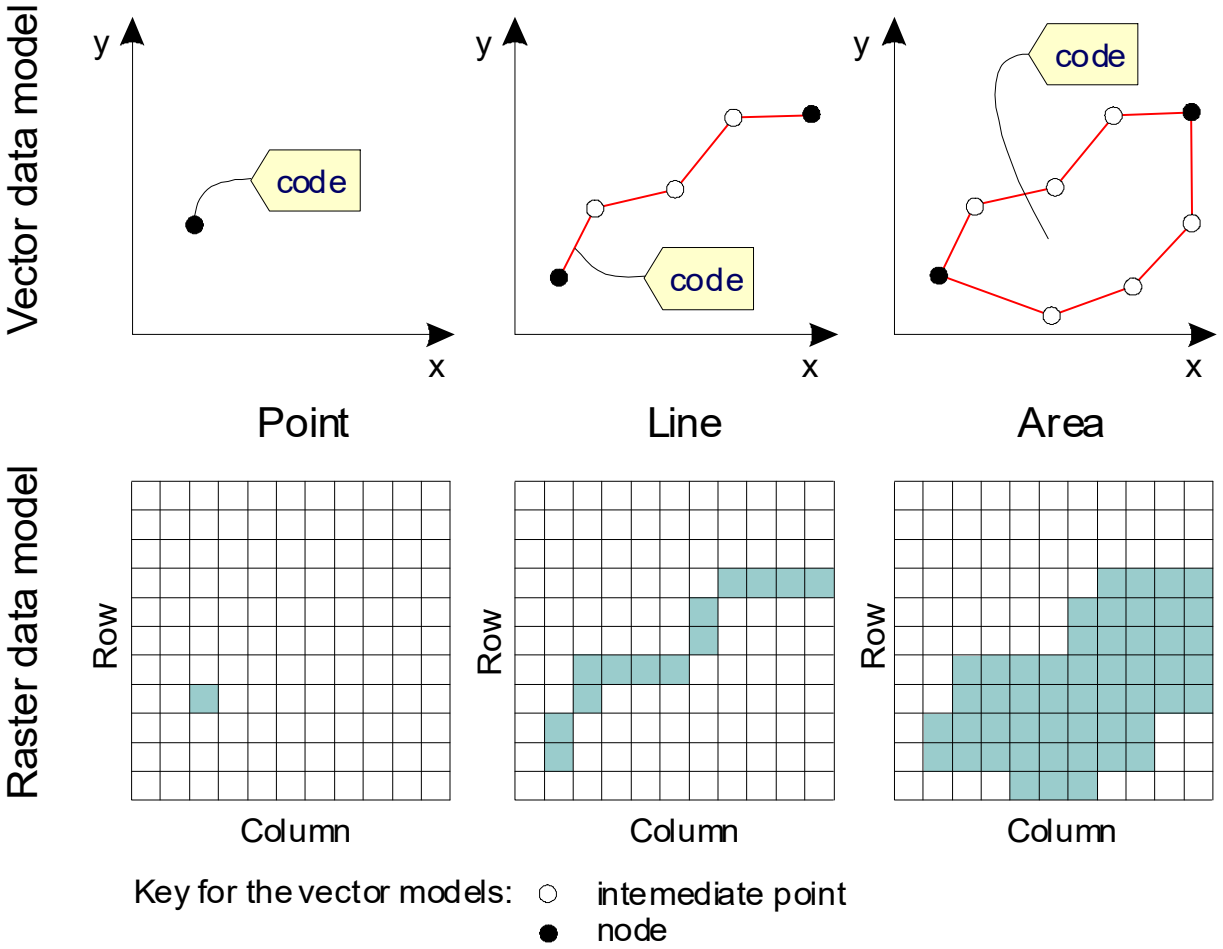
- Improving
- Vectorizing
- Apply attributes

- Improving
- Apply attributes

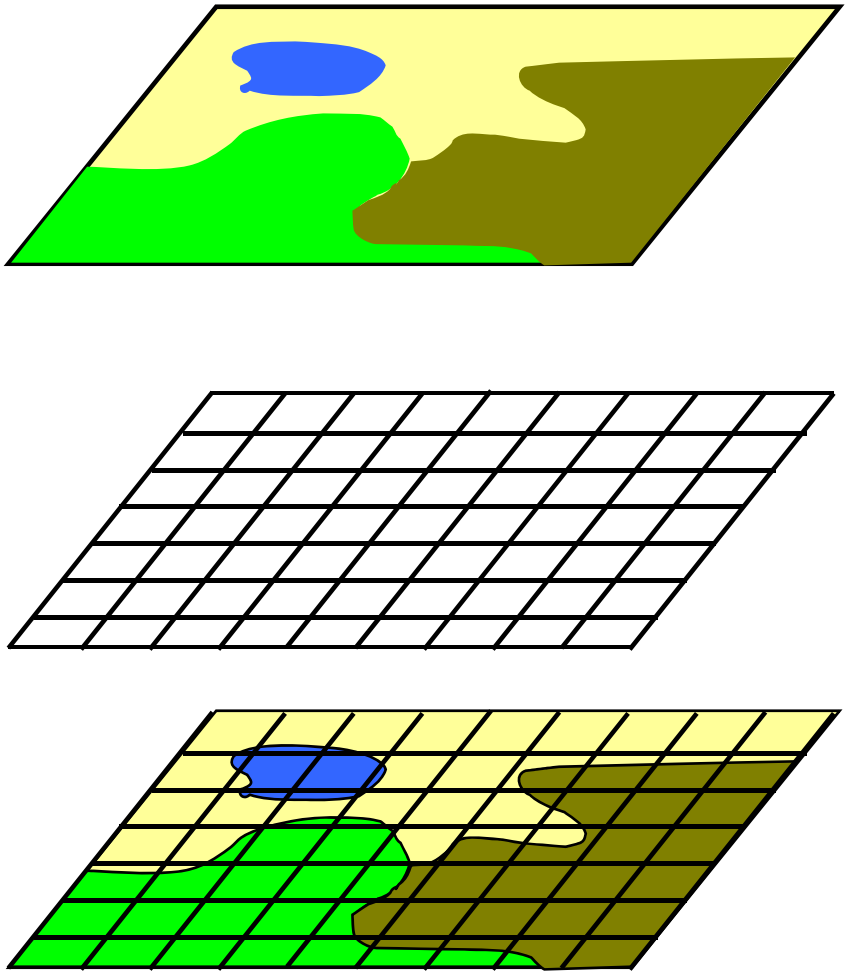
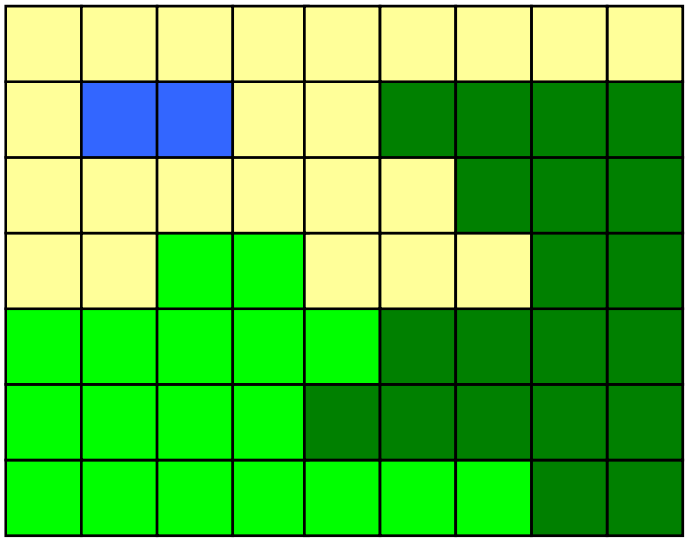


Digital Landscape Model

Vector and Raster representations of points, lines and areas



Features



Raster model)