

Modern Geographic tools

Geospatial technology

GPS

- Uses radio waves

GPS measurement

- Position
- Elevation

Decimal degrees

- Hemisphere

GPS error

- Noise

Differential correction

- Base station

Used for

Remote Sensing

Why is a leaf green?

Electromagnetic Spectrum

Multi-Spectral Responses

Benefits of RS

Landsat

LIDAR

GIS

- Geographic
- Information System

2 data models

- 1) Vector
- 2) Raster

## GIS analysis

### Internet Mapping Services

- <http://seamless.usgs.gov/>
- Google Earth