

Geo-tagging.

Geo-tagging is the process of adding geo. info. into photos, videos or social media posts.

Multimedia → Text, image, audio, video, animation.

↳ Latitude / Longitude coordinate system.

(Done through GPS).

↳ Embedded in many devices.
(Phone, tab etc).

Usage:- 1) News / Web sites.

2) Social media platforms.

3) Smart tourism.

Security issues:- 1) Cyber criminals.

2) burglars / stalkers.

Features:- 1) Portable:- ~~Can~~ written using Java and works on most common OS.

2) GUI :-

3) Intelligent matching:- Geo-tag using algos enable automatically matching the GPS data to photos.

4) Allocate names to photos:- Attach the name of nearest place with to the photo.

5) Supports various file format.

6) Open source:- Issued under GPL.

7) Easily translatable.

Q. * Geotagging in Multimedia:-

Geo-tagged photos includes assigning at least one latitude and longitude to the image

- (1) Capture GPS info during capturing
- (2) Attaching coordinates after the pic is taken. (How?)

Automatic
using
Built-in
GPS.

- 1) Synchronizing with external GPS.
→ using GPS logger.
- 2) Manual Geo-tagging.

* For audio and video files:-

- 1) Metadata.
- 2) Overlay.
- 3) Companion files that found in .KML or .GPX file format.

→ Metadata records geo spatial data in Audio/Video.

→ Exif metadata.

→ Overlay, overlaying GPS data as text on the rec. video.

→ Companion files, separate data file corresponding to media file