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Learning scenario: mastering geo-tracking

school subject: citizenship education

related digital skill: protecting personal data and privacy and Online services

I know where your cat lives

I know where your cat lives is a website created by a professor to raise awareness of the fact that we are constantly disclosing our personal data without realising it.

Invite the students to visit the website to introduce the idea of tracking !

Check the information

“Where was this photo taken ?”
“Hummm… Let me think..
New-York?”

Invite the students to look for the EXIF data of the picture, using a simple tool.

Communicate to the learners the link to the picture and the tool to look for the EXIF data.

Verify the EXIF data

Basic Image Information

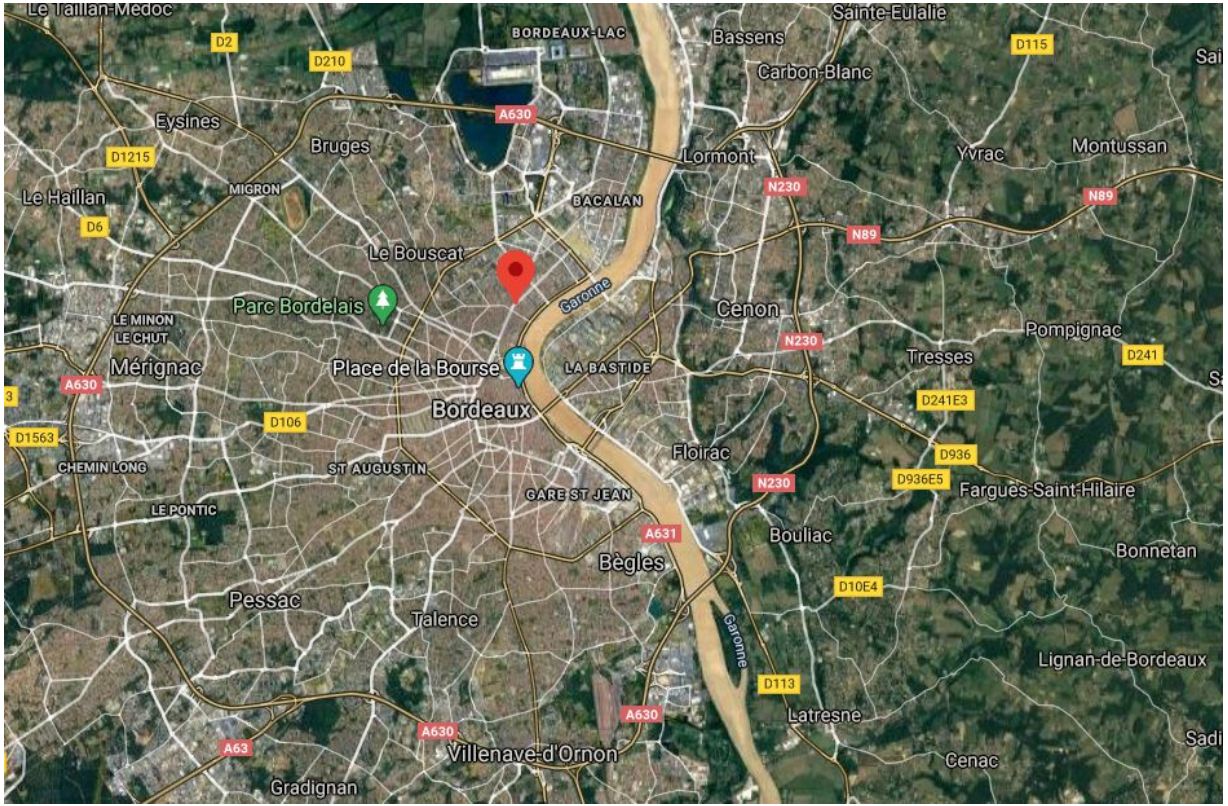
Target file: liberty.jpg

Camera:	Samsung GT-I9195
Lens:	3.7 mm Digital Zoom: 3× (Max aperture f/2.6) (shot wide open)
Exposure:	Auto exposure, Aperture-priority AE, 1 sec, f/2.6, ISO 50
Flash:	none
User Comment:	User comments
Location:	Latitude/longitude: **44**° 51' 19.3" North, **0**° 34' 17" West (44.855370, -0.571376) Map via embedded coordinates at: Google, Yahoo, WikiMapia, OpenStreetMap, Bing (also see the Google Maps pane below) Altitude: 58 meters (190 feet) Timezone guess from earthtools.org: 1 hour ahead of GMT
File:	**198** × **300** JPEG 16,845 bytes (16 kilobytes)
Color Encoding:	**WARNING:** Color space tagged as sRGB, without an embedded color profile. **Windows and Mac browsers and apps treat the colors randomly**. Images for the web are most widely viewable when in the sRGB color space and with an embedded color profile. See my Introduction to Digital-Image Color Spaces for more information.

Students can visit :
http://exif.regex.info/exif.cgi

and upload the picture to see where it was taken !

Verify the EXIF data



In reality, the picture was taken in Bordeaux (France) ! There is a liberty statue there.

Always check the information on the internet.

Looking into metadata can help find the origin of the picture.

Be vigilant with the information on the web

What about this picture ?

https://drive.google.com/file/d/1mlGJd13tIst1ymO3FTW47eO4_CCYMonJ/view?usp=sharing

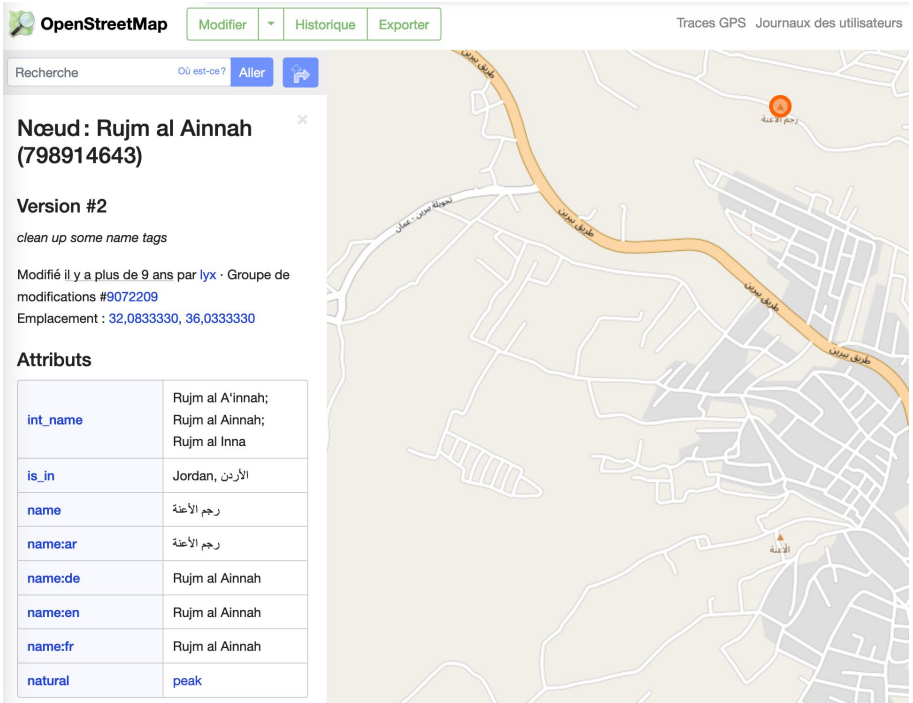
Be vigilant with the information on the web

There is no bridge in Greenland

Metadata can be modified with some tools.

GPS tracking

https://www.openstreetmap.org/node/798914643



OpenStreetMap is a free, editable map of the whole world that is being built by volunteers largely from scratch and released with an open-content license.

It can be used with students, by adding objects near their location

Related Pix digital skill:

protecting personal data and privacy

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