

pix



United Nations
Educational, Scientific and
Cultural Organization



European Union

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

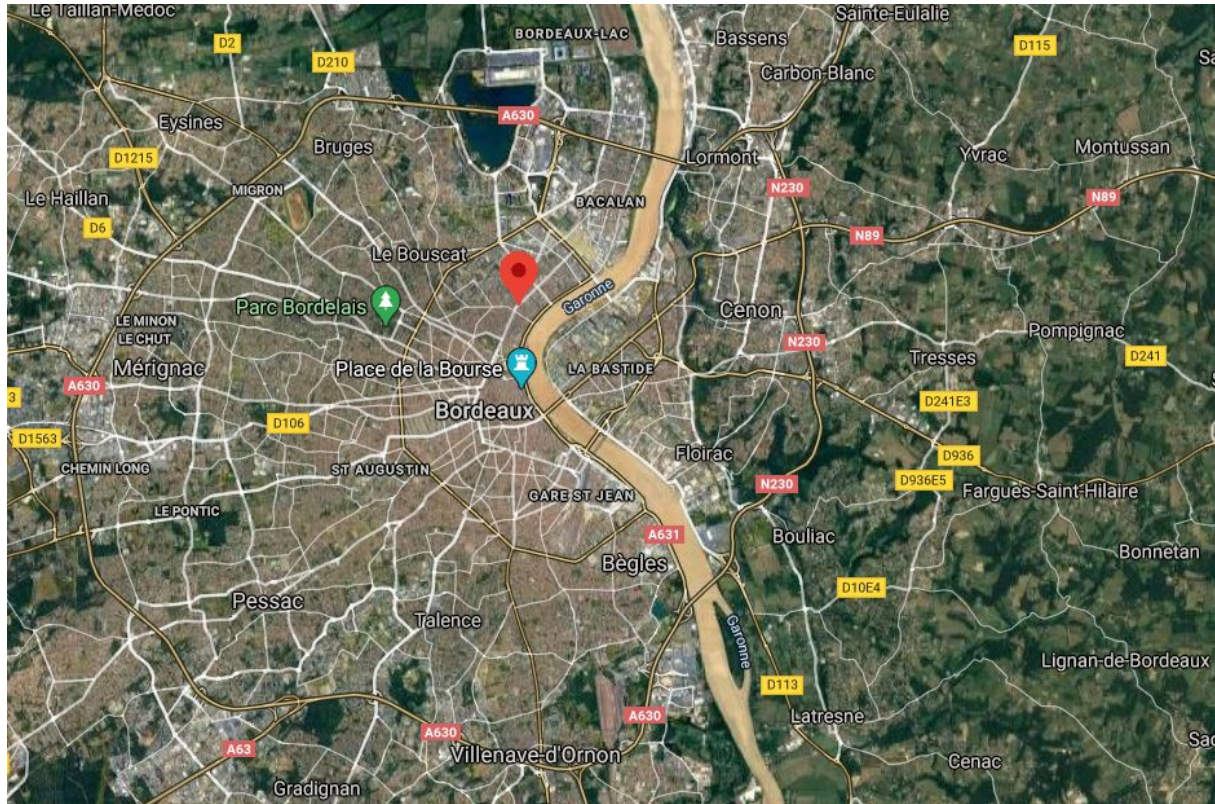
Camera:	Samsung GT-I9195
Lens:	3.7 mm Digital Zoom: 3× (Max aperture f/2.6) (shot wide open)
Exposure:	Auto exposure, Aperture-priority AE, 1 sec, f/2.6, ISO 50
Flash:	none
User Comment:	User comments
Location:	Latitude/longitude: 44° 51' 19.3" North, 0° 34' 17" West (44.855370, -0.571376) Map via embedded 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/1mlGld13tIst1ymO3FTW47eO4_CCYMonI/view?usp=sharing

Be vigilant with the information on the web

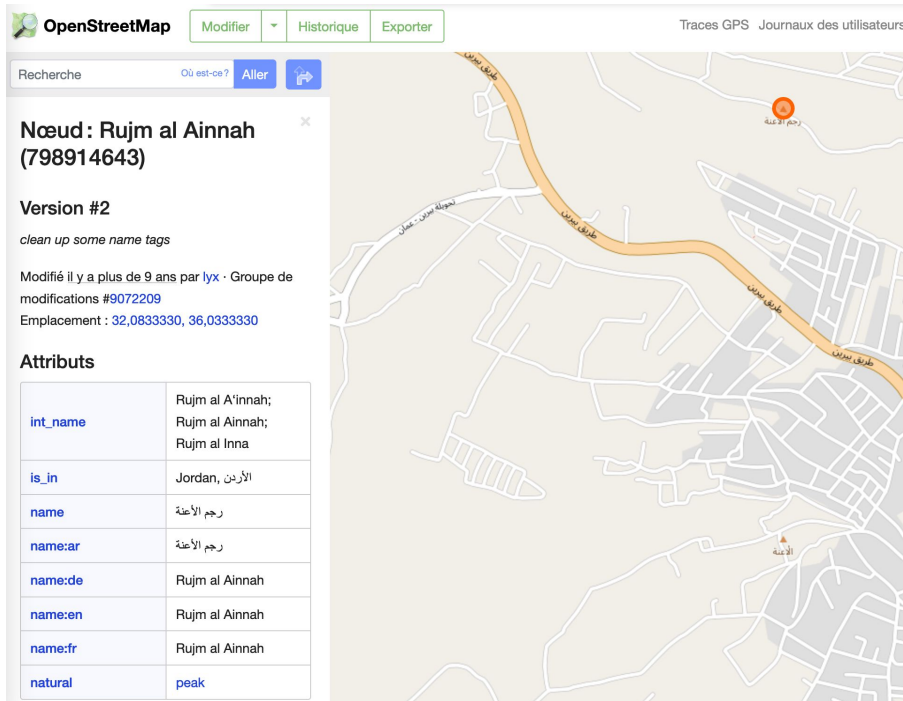


There is no bridge in Greenland

Metadata can be modified with some tools.

GPS tracking

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



The screenshot shows the OpenStreetMap interface. At the top, there are navigation buttons: 'Modifier', 'Historique', and 'Exporter'. Below the search bar, the selected node is identified as 'Nœud : Rujm al Ainnah (798914643)'. The interface displays the node's version (#2), a note to 'clean up some name tags', and information about its last modification by user 'lyx' on 2019-07-09. The location is given as coordinates 32,0833330, 36,0333330. A table of attributes is shown below, listing various names and the natural feature type.

Attribute	Value
int_name	Rujm al A'innah; Rujm al Ainnah; Rujm al Inna
is_in	Jordan, الأردن
name	رجم الأينة
name:ar	رجم الأينة
name:de	Rujm al Ainnah
name:en	Rujm al Ainnah
name:fr	Rujm al Ainnah
natural	peak

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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