



# Sharing Maps: The GIS Cloud

Summer School on Digital Humanities

Course material available at

[https://github.com/AugustoCiuffoletti/DHSS\\_2025](https://github.com/AugustoCiuffoletti/DHSS_2025)

Augusto Ciuffoletti

8 giugno 2025

# Sharing Maps: The GIS Cloud

- OpenStreetMap (OSM) does not support adding custom layers
  - It lacks infrastructure for proprietary data storage
- Desktop GIS applications (e.g., QGIS) allow users to overlay OSM data with their own layers
- Alternative services provide infrastructure for collaborative map sharing
- In these services, the server acts as an intermediary between users and data storage
- Unlike OSM, access and sharing restrictions can be enforced



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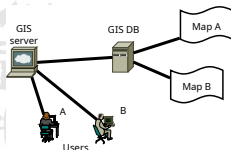
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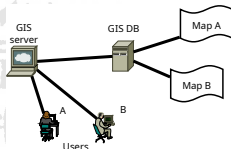
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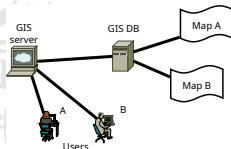
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# The uMap Service

- A stable project (launched in 2014)
- Open-source (can be installed on a private server)
- Uses OpenStreetMap as a base raster layer
- Users can
- Support
- Maps can be shared and collaboratively edited by a restricted user group



# The uMap Service

- A stable project (launched in 2014)
- Open-source (can be installed on a private server)
- Uses OpenStreetMap as a base raster layer
- Users can:
  - Create new maps
  - Edit existing maps
- Supports permissions management
- Maps can be shared and collaboratively edited by a restricted user group



# The uMap Service

- A stable project (launched in 2014)
- Open-source (can be installed on a private server)
- Uses OpenStreetMap as a base raster layer
- Users can
  - Import and export vector layers in standard formats
  - Configure the visibility of the layers
- Supports collaborative editing
- Maps can be shared and collaboratively edited by a restricted user group

# The uMap Service

- A stable project (launched in 2014)
- Open-source (can be installed on a private server)
- Uses OpenStreetMap as a base raster layer
- Users can:
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  - Connect to external data feeds
  - Create new layers stored within the uMap infrastructure
- Supports user control of map visibility
- Maps can be shared and collaboratively edited by a restricted user group

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- Supports popup annotations with:
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  - Images
  - HTML
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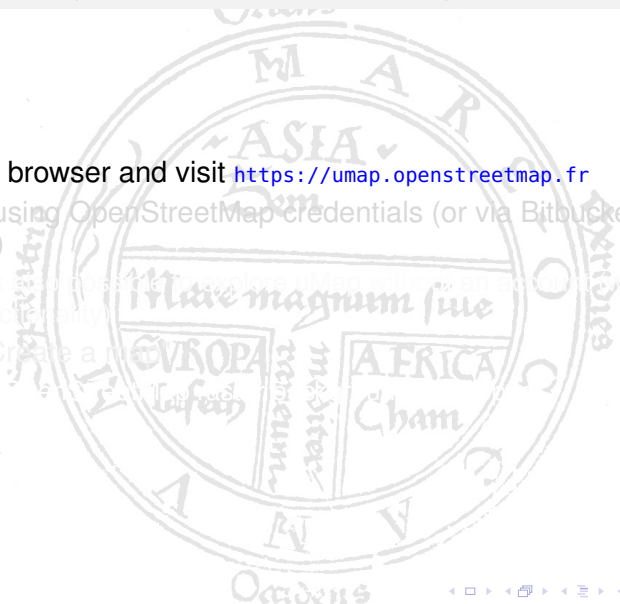
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# A uMap Tour (Sect. 5 in the Booklet)

- Open a browser and visit <https://umap.openstreetmap.fr>
- Log in using OpenStreetMap credentials (or via Bitbucket, or GitHub)
  - It is also possible to explore uMap without an account with limited functionality
- Click "Create a map"



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  - An OpenStreetMap raster background will appear

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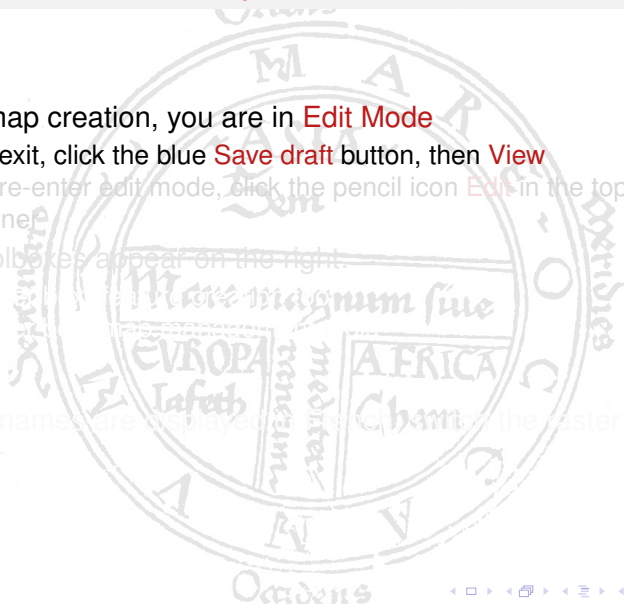
## Editing Your Shared Map

- Upon map creation, you are in **Edit Mode**
  - To exit, click the blue **Save draft** button, then **View**
  - To re-enter edit mode, click the pencil icon **Edit** in the top-right corner
- Two toolboxes appear on the right.
- If town names are displayed, such as on the raster layer:



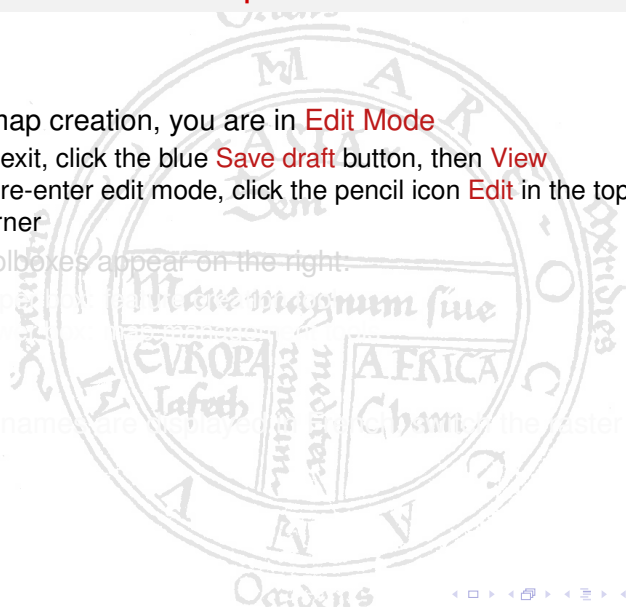
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- Two toolboxes appear on the right.
- If town names are displayed in red, click the raster layer:



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  - To exit, click the blue **Save draft** button, then **View**
  - To re-enter edit mode, click the pencil icon **Edit** in the top-right corner
- Two toolboxes appear on the right:
  - Upper box: **Map**
  - Lower box: **Layers**
- If town names are displayed, check the raster layer:



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- Two toolboxes appear on the right:
  - Upper box: feature creation tool
  - Lower box: map management tools
- If town names are displayed, make sure to uncheck the raster layer:


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  - To exit, click the blue **Save draft** button, then **View**
  - To re-enter edit mode, click the pencil icon **Edit** in the top-right corner
- Two toolboxes appear on the right:
  - Upper box: feature creation tool
  - Lower box: map management tools
- If town names are displayed in French, switch the raster layer:


# Editing Your Shared Map

- Upon map creation, you are in **Edit Mode**
  - To exit, click the blue **Save draft** button, then **View**
  - To re-enter edit mode, click the pencil icon **Edit** in the top-right corner
- Two toolboxes appear on the right:
  - Upper box: feature creation tool
  - Lower box: map management tools
- If town names are displayed in French, switch the raster layer:



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- Upon map creation, you are in **Edit Mode**
  - To exit, click the blue **Save draft** button, then **View**
  - To re-enter edit mode, click the pencil icon **Edit** in the top-right corner
- Two toolboxes appear on the right:
  - Upper box: feature creation tool
  - Lower box: map management tools
  - On the left panel, click  to search for a town (e.g., "Pisa")
- If town names are displayed in French, switch the raster layer:

# Editing Your Shared Map

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- If town names are displayed in French, switch the raster layer:

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- Two toolboxes appear on the right:
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  - On the left panel, click  to search for a town (e.g., "Pisa")
- If town names are displayed in French, switch the raster layer:
  - Click  and select "OpenStreetMap"



# Adding a Feature

- Choose a feature type from the right-hand menu:



- Click on the desired feature type, then interact with the map:
- Once the feature is created, it appears:
- To edit an existing feature, click and select the pencil icon

# Adding a Feature

- Choose a feature type from the right-hand menu:

-  Point



- Click on the desired feature type, then interact with the map:

- Once the feature is created, it appears:

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# Adding a Feature

- Choose a feature type from the right-hand menu:
  -  Point
  -  Line
- Click on the desired feature type, then interact with the map:
- Once the feature is created, it appears.
- To edit an existing feature, click and select the pencil icon



# Adding a Feature

- Choose a feature type from the right-hand menu:

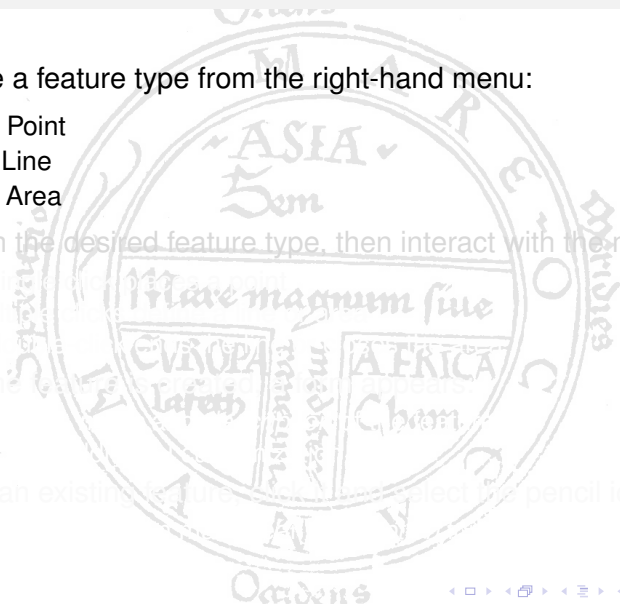
-  Point
-  Line
-  Area

- Click on the desired feature type, then interact with the map:




- A single click places a point
- Multiple clicks place a line
- Multiple clicks place an area

- Once the feature is created, it appears:




- To edit an existing feature, click and select the pencil icon






# Adding a Feature

- Choose a feature type from the right-hand menu:
  -  Point
  -  Line
  -  Area
- Click on the desired feature type, then interact with the map:
  - A single click places a point
  - Multiple clicks define a line or area
  - A double-click on the line or closes the area
- Once the feature is created, it appears.
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  - A double-click ends the line or closes the area
- Once the feature is created, a form appears.
- To edit an existing feature, click on it and select the pencil icon

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- Once the feature is created, a form appears:
  - Enter the name of the described feature
  - Explore additional customization options
- To edit an existing feature, click and select the pencil icon






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  - A double-click ends the line or closes the area
- Once the feature is created, a form appears:
  - Enter the *name* and *description* of the feature
  - Explore additional customization options
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- To edit an existing feature, click it and select the pencil icon
  - Click the question mark near Description for formatting tips

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# Special Content in the **Description** Field

The *Description* field can contain interactive elements:

(Note: these appear only after **Save** and **Disable Editing**)

- Add an image by inserting its link within double braces:

```
{{http://gardenersnet.com/flower/pics/daffodil04.jpg}}
```

- Add a hyperlink using double brackets:

```
[[http://www.google.com/]]
```

- Embed a video (e.g. YouTube) using triple braces:

```
{{{https://player.vimeo.com/video/5016854}}}
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# Creating a Slideshow

- A slideshow cycles through the map features sequentially
  - Features are displayed in the order they were added
- To enable the slideshow



- Familiar playback controls (play, stop, previous, next, first, last) appear in the bottom right corner of the map
- If auto-play is enabled, the slideshow starts automatically upon loading the map
- Reordering features is not possible, but you can export them to QGIS, reorder, and reimport them into the map


# Creating a Slideshow

- A slideshow cycles through the map features sequentially
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- To enable the slideshow:




- Click the gear icon and select Slideshow
- Enable the slideshow mode
- Click the play button icon to start the slideshow
- Familiar playback controls (stop, previous, next, first, last) appear in the bottom right corner of the map
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- To enable the slideshow:
  - Click the  gear icon and select *Slideshow*
  - Enable *Slideshow mode*
  - Set the time interval between slides
  - Optimize the slideshow to auto-play on map load
  - Click *Save*
- Familiar playback controls (play, stop, previous, next, first, last) appear in the bottom right corner of the map
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# How to Share, Embed, and Export

To share your map with specific users or the public

To embed your map in a webpage

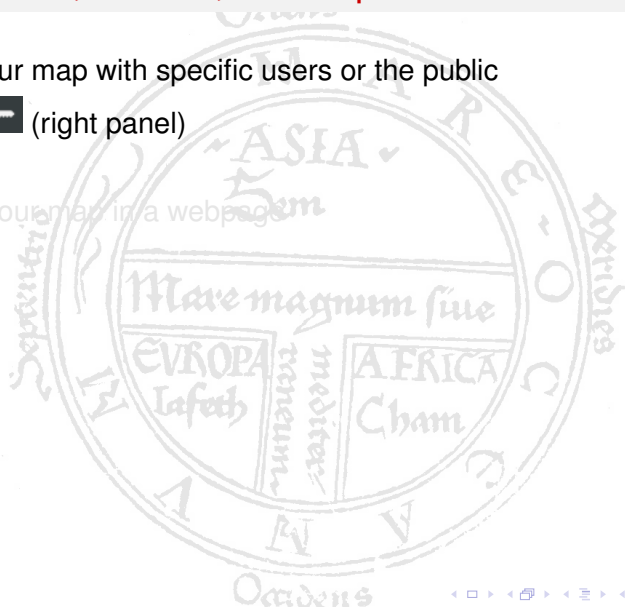


# How to Share, Embed, and Export

To share your map with specific users or the public


- Click  (right panel)

To embed your map in a webpage

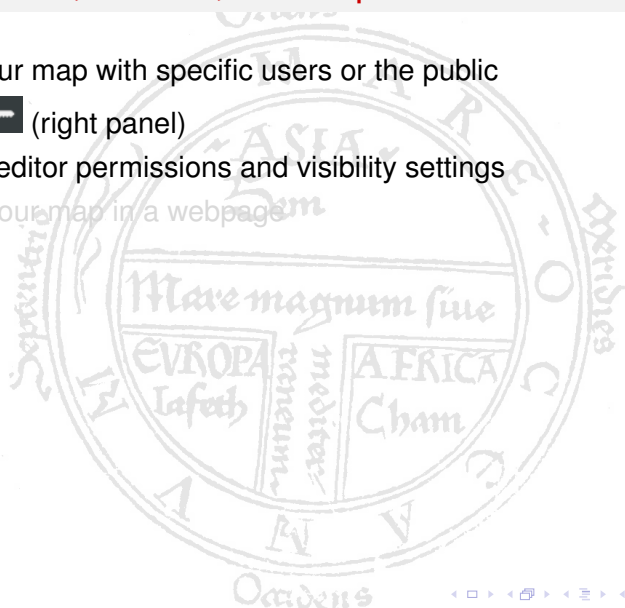


# How to Share, Embed, and Export

To share your map with specific users or the public


- Click  (right panel)
- Adjust editor permissions and visibility settings

To embed your map in a webpage

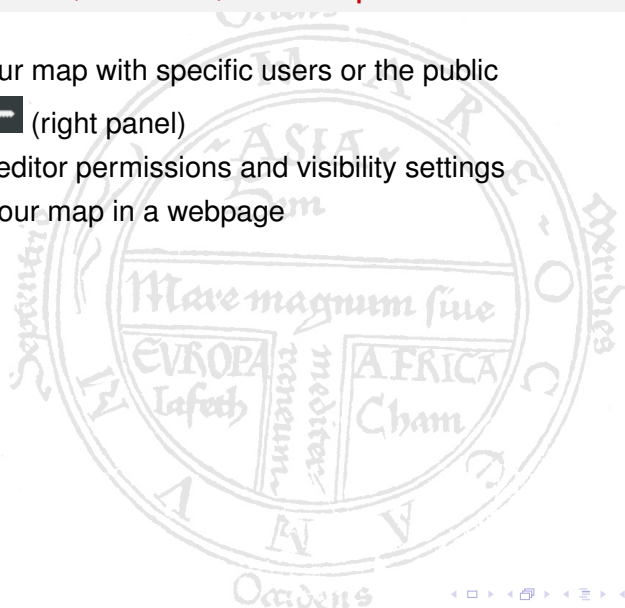


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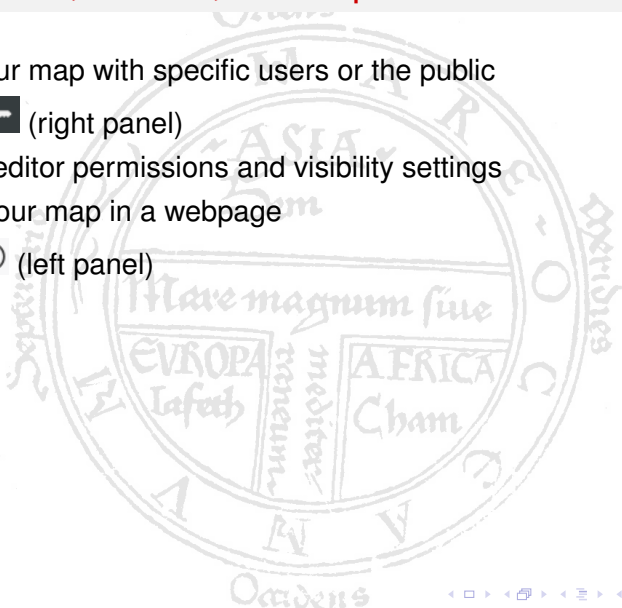
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- Click  (left panel)
- Generate a short URL (useful for mobile access)

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To share your map with specific users or the public


- Click  (right panel)
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To embed your map in a webpage


- Click  (left panel)
- Generate a short URL (useful for mobile access)
- Export features in various formats

# How to Share, Embed, and Export

To share your map with specific users or the public


- Click  (right panel)
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To embed your map in a webpage


- Click  (left panel)
- Generate a short URL (useful for mobile access)
- Export features in various formats
  - GeoJSON – JavaScript-compatible format

# How to Share, Embed, and Export

To share your map with specific users or the public


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To embed your map in a webpage


- Click  (left panel)
- Generate a short URL (useful for mobile access)
- Export features in various formats
  - GeoJSON – JavaScript-compatible format
  - KMZ – Google Maps format

# How to Share, Embed, and Export

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To embed your map in a webpage


- Click  (left panel)
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- Export features in various formats
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  - KMZ – Google Maps format
  - GPX – GPS-compatible format

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To share your map with specific users or the public


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To embed your map in a webpage


- Click  (left panel)
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- Export features in various formats
  - GeoJSON – JavaScript-compatible format
  - KMZ – Google Maps format
  - GPX – GPS-compatible format
- Copy the embed code ("iframe" tag) for use in web pages

# How to Share, Embed, and Export

To share your map with specific users or the public

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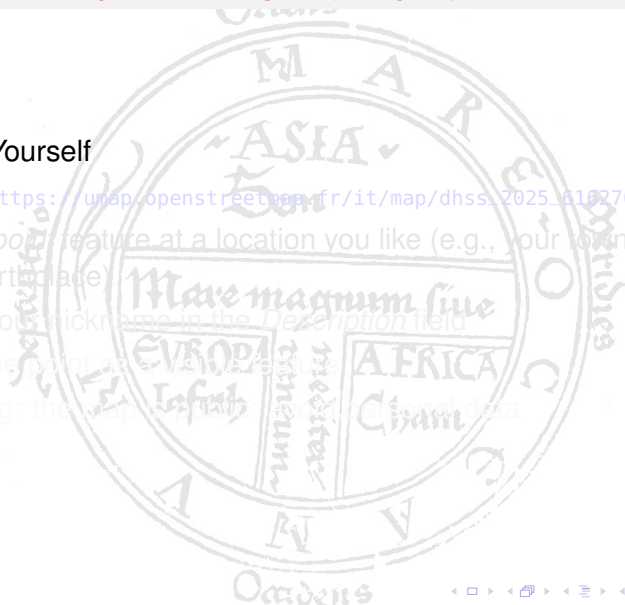
To embed your map in a webpage

- Click  (left panel)
- Generate a short URL (useful for mobile access)
- Export features in various formats
  - GeoJSON – JavaScript-compatible format
  - KMZ – Google Maps format
  - GPX – GPS-compatible format
- Copy the embed code ("iframe" tag) for use in web pages
- Configure a custom URL with query

# Time for a uMap *Challenge!* (Step 1)

## Geolocate Yourself

- Open [https://umap.openstreetmap.fr/it/map/dhss\\_2025\\_610270](https://umap.openstreetmap.fr/it/map/dhss_2025_610270)
- Add a *point* feature at a location you like (e.g., your town, favorite hike, birthplace)
- Enter your nickname in the *Description* field
- Save the point as a *visible* feature
- **Warning:** the map is public: *avoid* personal data





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# Time for a uMap *Challenge* (Step 2)

## The Map to the Tower

- Help a friend visiting Pisa for the first time:
  - Add points of interest (Leaning tower, train station, wherever...)



# Time for a uMap *Challenge* (Step 2)

## The Map to the Tower

- Help a friend visiting Pisa for the first time:
  - Add points of interest (Leaning tower, train station, whatever...)
  - Add "description" fields as you like (try with an image of the tower, a link to the tower's page, etc.)
- Create a map showing a route from the train station to the Leaning Tower

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## The Map to the Tower

- Help a friend visiting Pisa for the first time:
  - Add points of interest (leaning tower, train station, whatever...)
  - Fill "Description" fields as you like (try with an image of the tower, `[[https://images.app.goo.gl/SWAQCqGn6pevnh29]]`)
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  - Create a map showing a route from the train station to the Leaning Tower
    - Draw a path from the station to an imaginary bus stop, then the bus route, and finally the walk to the tower
    - At the bus stop, enter details: bus number, direction, stop name, and estimated travel time

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