

### **Course summary**

Day 2

Collaborative mapping tools

Humanitarian mapping (Examples)

OpenStreetMap data usage

Mobile applications for mapping (Examples)





### OpenStreetMap & Friends

The OSM environment, its dynamics and its community-based idea inspired the development of many tools and platform in different fields, such as:

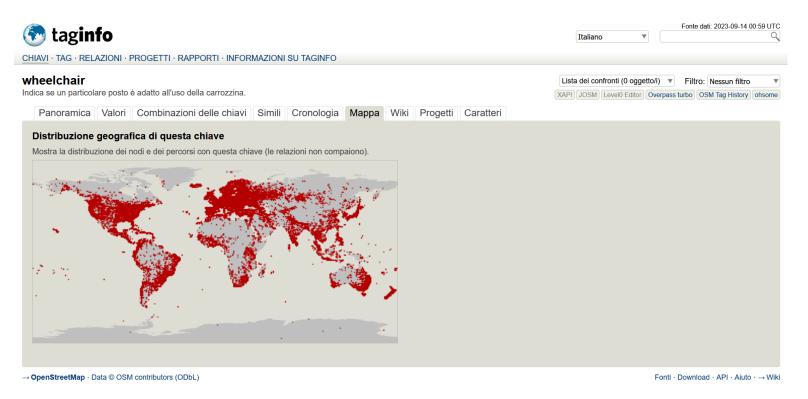
- Data quality assurance
- Contribution tracking
  - Indoor mapping
- Environmental monitoring
- Game & Fantasy mapping
  - Historical mapping





# Data quality assurance taginfo

Dashboard for accessing stats about how specific tags are used and which are the most common tag combinations.



https://taginfo.openstreetmap.org/

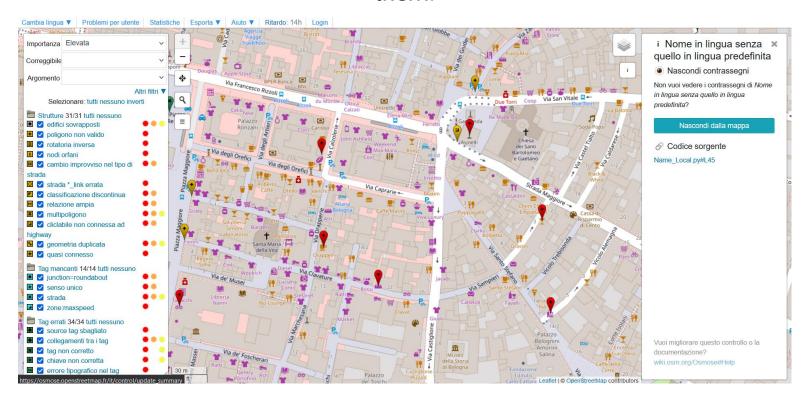




### **Data quality assurance**

#### osmose

Tools for automatically detect issues in OSM data in a specific areas with some suggestions on how to fix them.



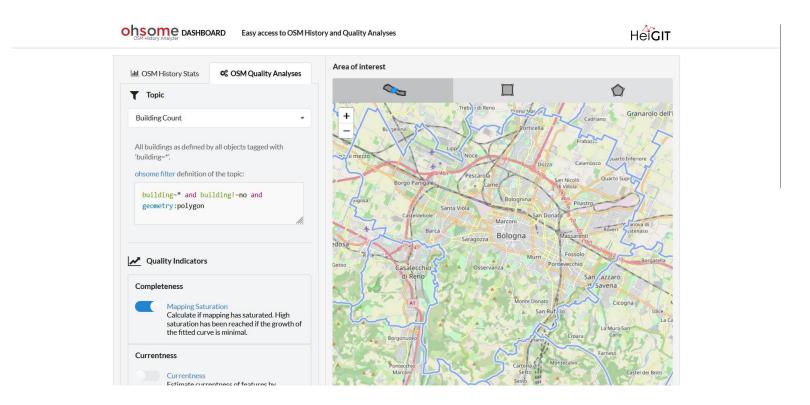
https://osmose.openstreetmap.fr/it/map/#zoom=18&lat=44.493658&lon=11.346082&item=xxxx&level=1&issue\_uuid=539bbfc8-9593-45ec-efdd-efaba48eacf0





## Data quality assurance ohsome

Interactive dashboard for checking data quality and history of features in OSM.



https://dashboard.ohsome.org/

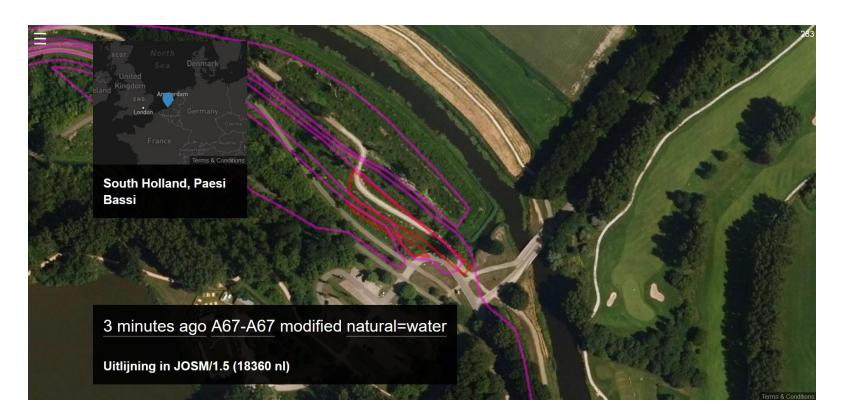




### **Contributions tracking**

### Show me the way

Open-source tool that shows in real time edits and changesets successfully completed around the world.



https://osmlab.github.io/show-me-the-way/

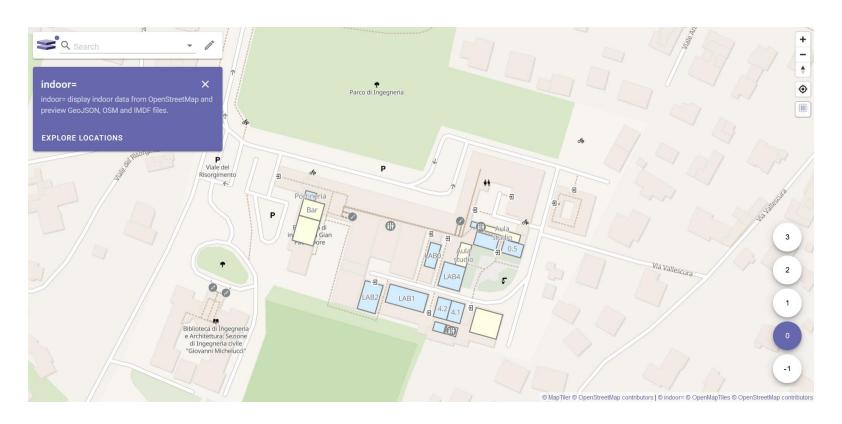




## **Indoor mapping**

### Indoor=

Web map for exploring indoor mapped objects on OpenStreetMap



https://indoorequal.org/#map=15.75/44.488652/11.331091

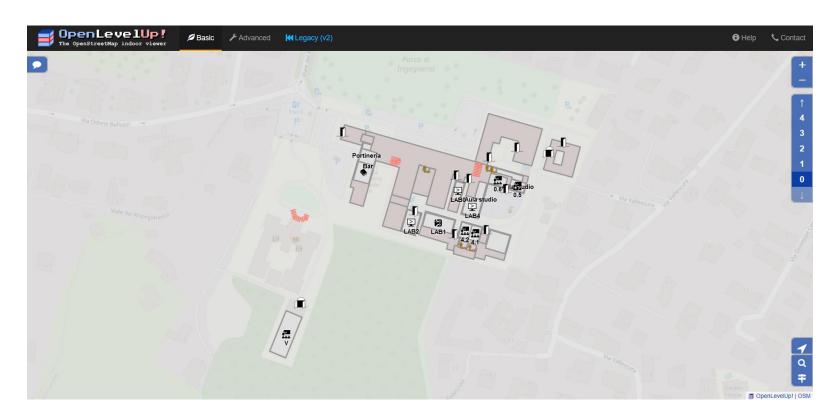




## **Indoor mapping**

### **OpenLevelUp**

Web map for exploring indoor mapped objects on OpenStreetMap



https://openlevelup.net/?l=0#18/44.48733/11.32945

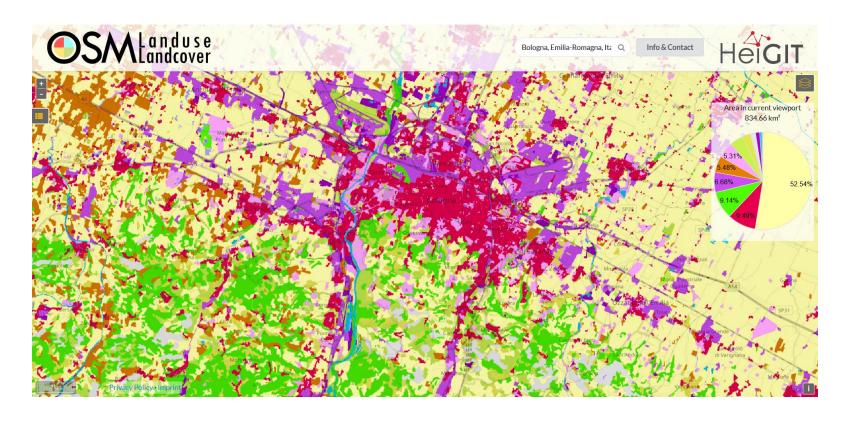




### **Environmental monitoring**

### **OSM Landuse Landcover**

Interactive dashboard computing stats on land cover and use around the world as mapped on OSM.



https://osmlanduse.org/#12/11.33161/44.4886/0/

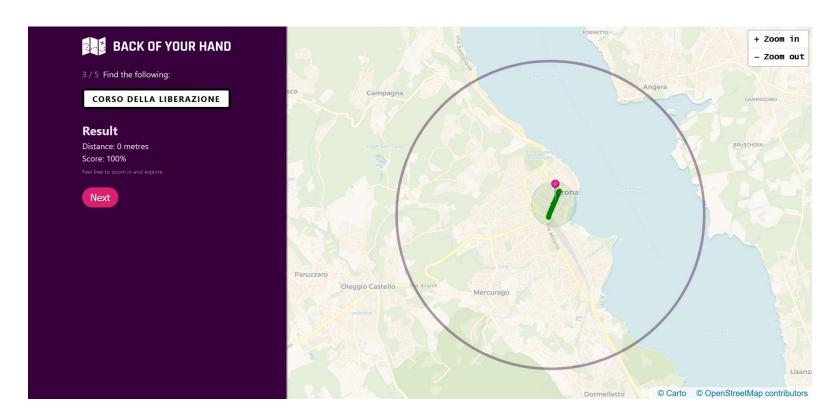




### **Game & Fantasy Mapping**

### Back of your hand

How well do you know the road network of your hometown?



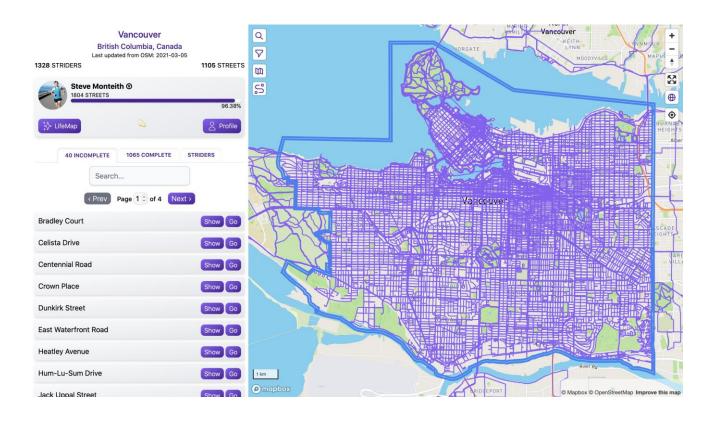
https://backofyourhand.com/game?difficulty=tourist&lat=44.49474&lng=11.34319&numberOfQuestions=5&radius=2000





## Game & Fantasy Mapping CityStrides

Let's "conquer" the streets by running and cycling all the roads of your city!



https://citystrides.com/

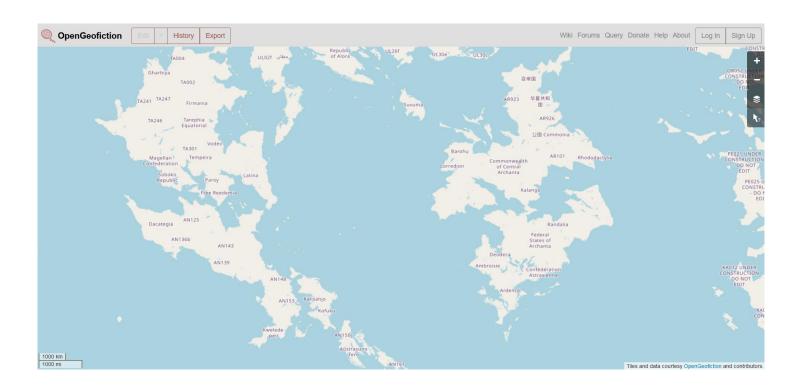




### **Game & Fantasy Mapping**

### **OpenGeoFiction**

Digital cartography platform for creating fictional map using the OSM interface.



https://opengeofiction.net/#map=3/-25.87/99.14&layers=B

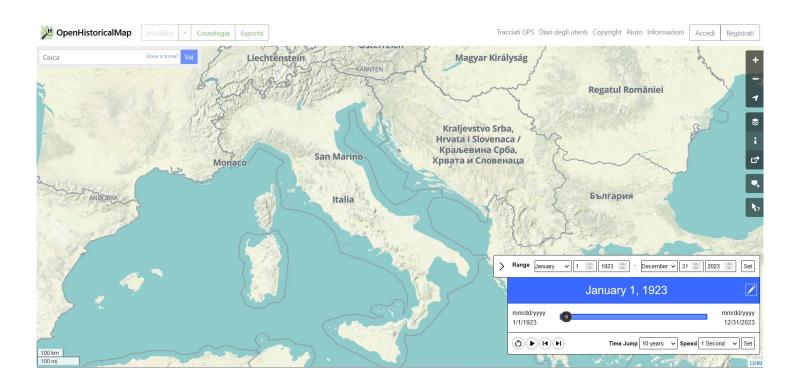




### **Historical mapping**

### **OpenHistoricalMap**

Digital cartography platform for documenting historical features using the OSM interface.



https://www.openhistoricalmap.org/#map=6/42.245/15.293&layers=O&date=1923-01-01&daterange=1923-01-01,2023-12-31





## Querying and downloading OpenStreetMap data

Data added to OpenStreetMap and/or contributions made to a project can be queried and downloaded to become the subject of further applications and analyses. For this purpose, numerous solutions exist, varying in complexity and query possibilities.



#### **GEOFABRIK**

- Allows downloading of data packages on a national and continental level
- For large countries also at subnational level. Does not allow filtering by criteria for OSM data
  - Formats: .pbf/.shp



#### **Overpass Turbo**

- Powerful and flexible tool to extract exactly what you want, at the place and time of interest
- Rich but complex language
- Possibility of exploiting 'shortcuts' for simple queries
  - Formats:

GeoJSON/.gpx/.kml/.osm-json

OpenStreetMap Export Tool:

https://www.openstreetmap.org/export

HOTOSM Export Tool:

https://export.hotosm.org/en/v3

PlanetOSM:

https://planet.openstreetmap.or

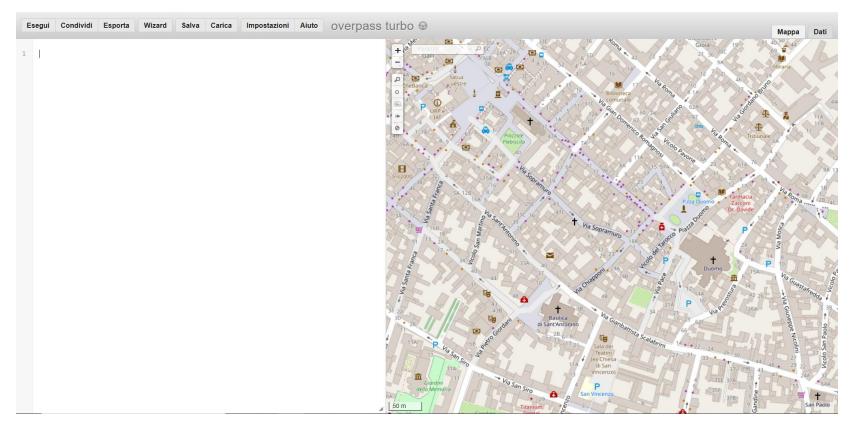
Estratti OpenStreetMap Italia:

https://osmit-estratti.wmcloud.o rg/





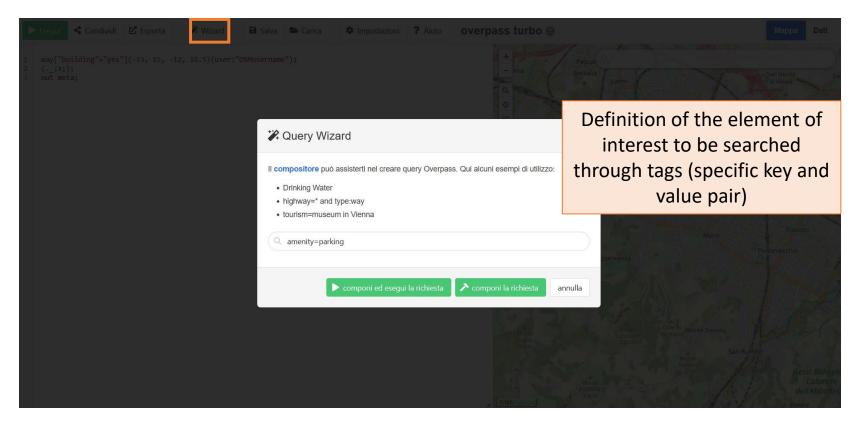
This tool makes it possible to query the OpenStreetMap database via Overpass API requests. This makes it possible to locate and save data of interest through specific, even very detailed queries.







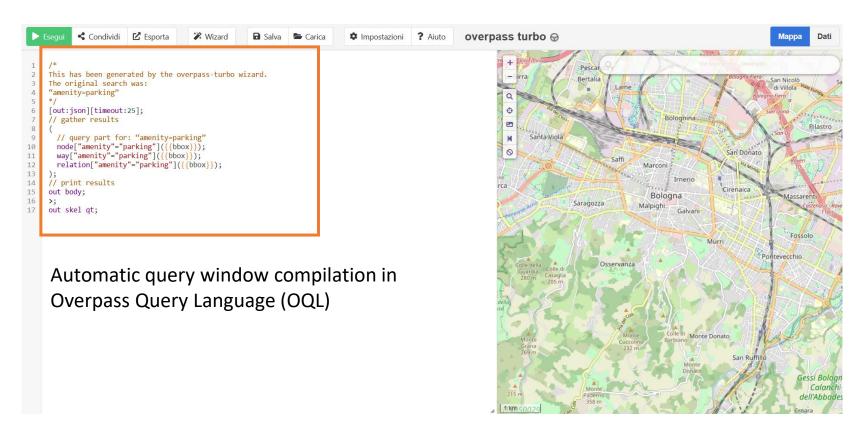
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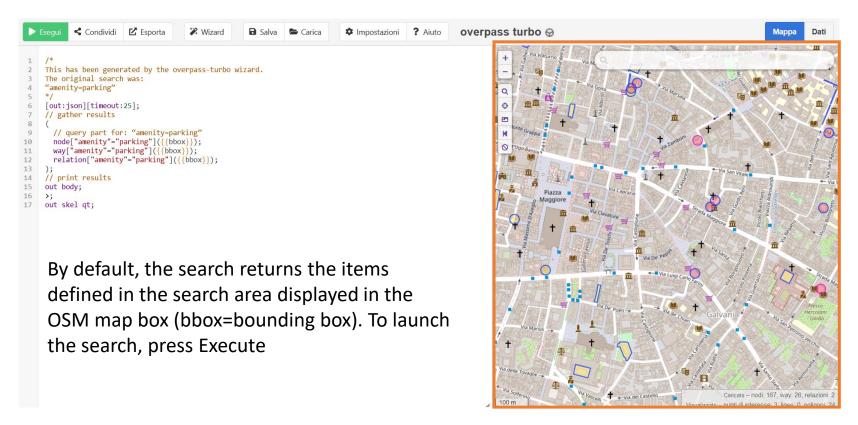
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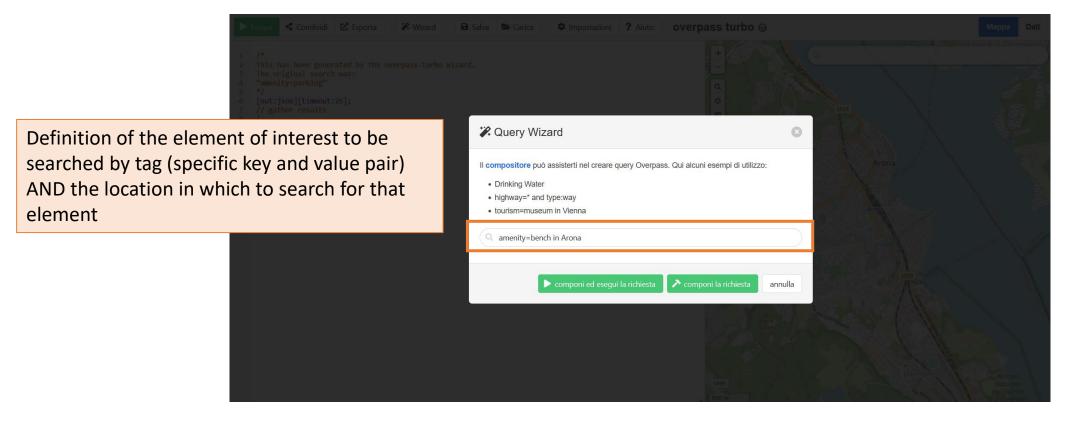
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