

Light apps, open-source, and
crowdsourcing to promote the
'Heritage in...' your town

Paris, 15 May 2023
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CW2
con'23

Local communities are proud of their culture and history

Every town/region has dozens of items in the streets (artworks or not) representing its history

- > Statues, old buildings, bridges... but also
- > castles, vineyards, gardens...

We all want to **preserve our cultural heritage**

Artworks may be lovely, but the origin and the history are the most relevant part... **unknown to most of visitors.**

Archives help, but also the local experts



'De Koeieschieter' ('Cow Shooter')

A story from 1691 that explains why Leuven's people were nicknamed koeschieters or cow-shooters.

Objective: Local Heritage App

Objective: tool and methodology to generate **apps** and **services** for European towns promoting their local art, culture, history, or whatever...

Open (Linked) Data + **Open Source** + Crowdsourced + Sustainable

No-code: no development, just configuration (minimum IT skills required)

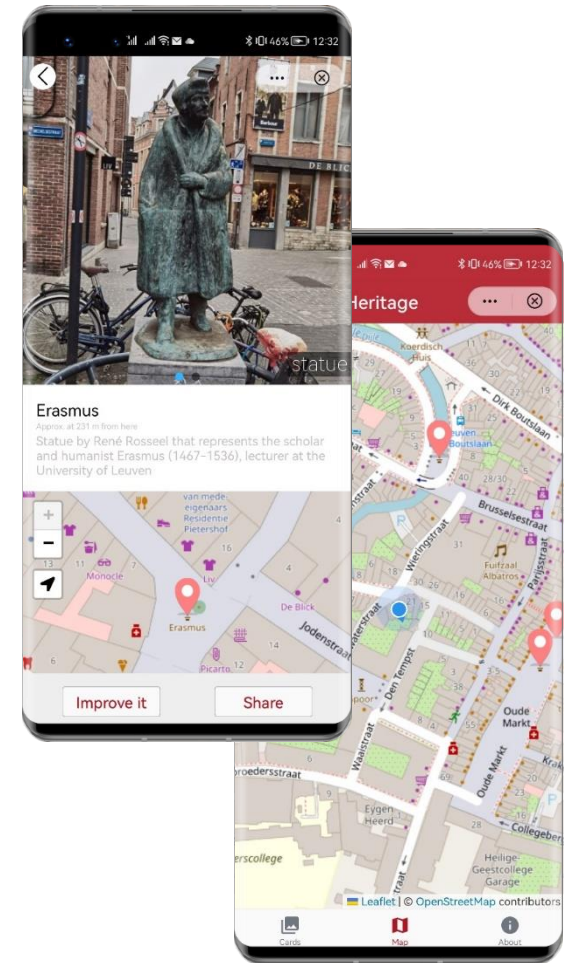
No-cost: design based on public resources

Community-driven: updates by the community

No maintenance costs (minimum moderation by volunteers/experts)

One app ≈ one-day effort (any citizen can launch a project)

Templates to replicate the app in **other scenarios/places**



Hidden (inaccessible?) gems

- Accessibility
- Multilingual



Difficulties to understand foreign languages



Not easy to discover the non-popular monuments

Heritage in... **The Methodology**

Step 1: clone & configure the project

Step 2: the database

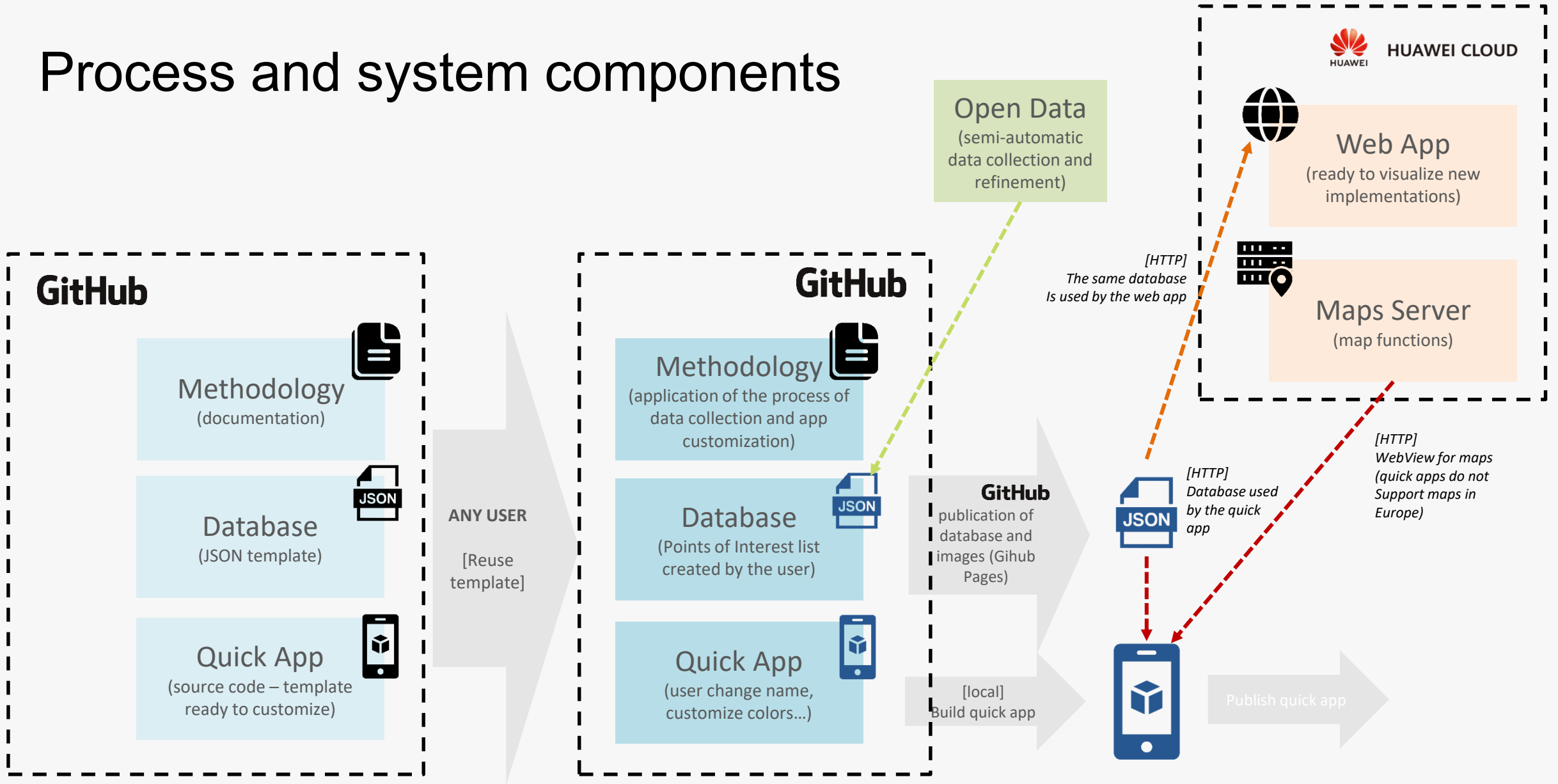
Step 3: customize the app

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<https://ow2-quick-app-initiative.github.io/poi-quick-app/>

Process and system components



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Data, what data?

Data and pictures extracted from:

- ✓ Official open data (hopefully)
- ✓ Local experts with knowledge
- ✓ Crowdsourced data → e.g. OSM →

The image shows a screenshot of the OpenStreetMap (OSM) web interface with three overlapping windows. The background window shows a map of Gijón, Spain, with a red boundary line. The top-left window is titled "Relation: Gijón (345576) Version #51" and displays a table of tags. The top-right window is titled "Node: Estatua de Jovellanos (3330639418) Version #3" and displays its tags. The bottom-right window is titled "Export" and shows a map with a red selection box and coordinate fields.

Relation: Gijón (345576) Version #51

Etiquetas `addr:country_code` incompatibles en elementos `boundary`

Edited over 1 year ago by Hugoren Martinako - import
Changeset #100131136

Tags

admin_level	8
boundary	administrative
idee:name	Gijón/Xixón
ine:municipio	33024
name	Gijón/Xixón
name:ar	خيمون
name:ast	Xixón
name:ca	Gijón
name:el	Χιχόν
name:es	Gijón
name:gl	Xixón
source	BDLL25, EGRN, Instituto Geográfico Nacional
type	boundary
wikidata	Q12273

Node: Estatua de Jovellanos (3330639418) Version #3

Cambiado el nombre a Jovellanos, apellido verdadero de la persona representada en la estatua.

Edited over 5 years ago by qnuqwln
Changeset #49179027
Location: 43.5392696, -5.6632009

Tags

historic	memorial
memorial:type	statue
name	Estatua de Jovellanos
name:es	Estatua de Jovellanos

[Download XML](#) · [View History](#)

Export

43.54008
-5.66485 -5.66172
43.53846

Manually select a different area

Licence

OpenStreetMap data is licensed under the Open Data Commons Open Database License (ODbL).

[Export](#)

If the above export fails, please consider using one of the sources listed below.

We need to refine the open data

OpenRefine A power tool for working with messy data.

Create Project « Start Over Configure Parsing Options Project name comic book route csv Tags Create Project »

Character(s)	Author(s)	Geocoordinates	Year	Photo
1. Billy the Cat	Colman & Desberg	50.8534930829,4.34524297714	2000	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book-route/files/0c23baaad4ec7e0a9febe61e0633047
2. Blondin & Cirage - Blondie & Blinkie	Jijé	50.8382916052,4.34736728668	1998	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book-route/files/e3b8b7b02b73d4559a210ed2f2732cb2
3. La Vache - De Koe	Johan de Moor	50.8528725,4.357844	1999	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book-route/files/1863e288e9247fd3f63c93ba0c6b29a5
4. Schtroumpfs - Smurfs (Smurfs)	Peyo	50.845641,4.355886	2018	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book-route/files/e89705bfe2b80e6e73f42c1dfda1c16c
5. Après-midi place Bockstael - 's Namiddags aan het Bockstaeplein	Elodie Shanta	50.877108,4.346971	2021	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book-route/files/d7244fa78a65e9bc49ac482343340200
6. Benoit Brisefer - Steven Sterk	Peyo	50.8391525,4.3504241	2015	
7. Corto Maltese	Pratt	50.8605342,4.3485253	2009	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book-route/files/21a653087012d0a110d8ea37b66a549a
8. LGBT	Ralf König	50.846751,4.349346	2015	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book-route/files/1fb8432358b23177561a68366b4312e
9. Quick & Flupke	Herg??	50.840422,4.350264	2015	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book-route/files/19e870c2fd99c38bc1435021617a8389
10. Le Chat - De Kat	Philippe Geluck	50.8378444279,4.34198141098	1993	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book-route/files/55f00cb9735ad5e3ac76deb2ae863be0
11. L'Ange de Sambre - De Aartsengel	Yslaïre	50.8489412883,4.34687376022	1998	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book-route/files/b0c9a62962686c954fafb8c00b971f1c
12. Solostalgie	Eva Roussel	50.8807067871,4.34292840958	2021	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book-route/files/f172cca2444f7d0276a71cbde762877b
13. Marsupilami	Franquin	50.8907142,4.3371644	2013	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book-route/files/19e870c2fd99c38bc1435021617a8389

Parse data as

Character encoding UTF-8 Update Preview

CSV / TSV / separator-based files

Columns are separated by

- commas (CSV)
- tabs (TSV)
- custom: ;

Trim leading & trailing whitespace from strings

Escape special characters with \

Column names (comma separated):

Ignore first 0 line(s) at beginning of file

Parse next 1 line(s) as column headers

Discard initial 0 row(s) of data

Load at most 0 row(s) of data

Use character " " to enclose cells containing column separators

Attempt to parse cell text into numbers

Store blank rows

Store blank cells as nulls

Store file source

Store archive file

Adaptation to our templates

Using own scripts or Open Refine 😊

<https://openrefine.org>

Also enriching with semantics our spreadsheet

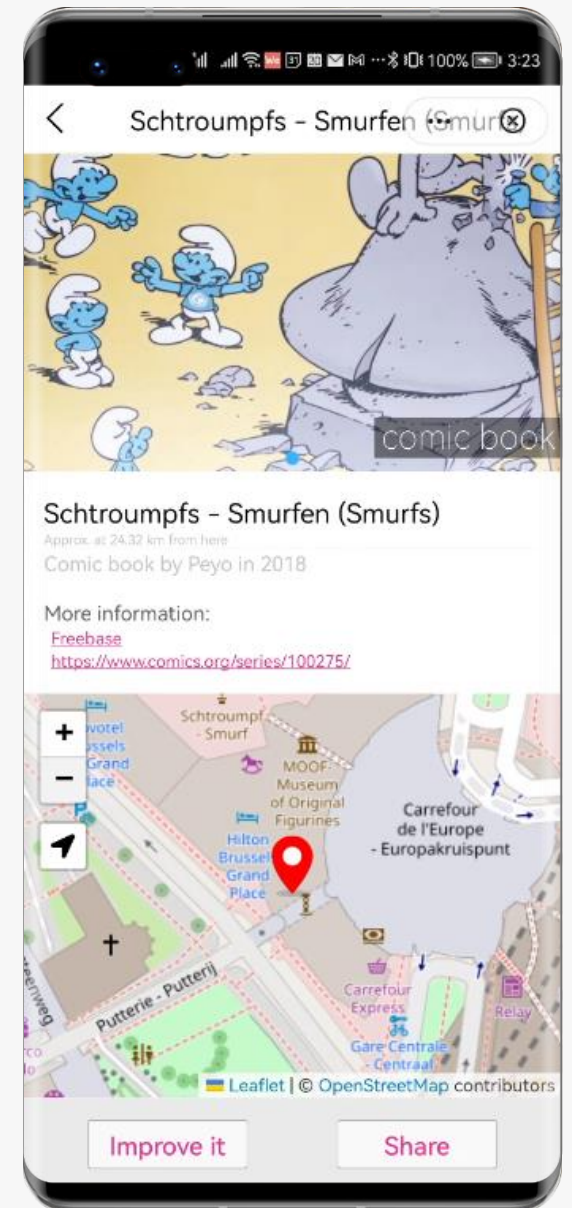
The image shows the OpenRefine interface for a project named "Comic Book Route BXL". The main area displays a table with 64 rows. The columns are: name, author1, author2, latitude, longitude, year, and photo. The first row is "Billy the Cat" by Colman and Desberg, with coordinates 50.8534930829 and 4.34524297714, and the year 2000. The photo column contains a URL: <https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book-route/files/0c23baaad4ec7e0a9f6be61e0633047>. A list of related items is shown below the first row, including "Billy the Cat (100)", "histoires courtes de Billy the Cat (74)", "Le Choix de Billy (60)", "Billy Boss (52)", "Cat City (48)", "L'Œil du maître (41)", "Saucisse le terrible (36)", "Le Chamélión (32)", "Dans la peau d'un chat (29)", "L'Été du secret (29)", "Les Machines à ronronner (27)", "La vie amoureuse de Sophie Arnuld (26)", "Le Destin de Pirmin (25)", "A Classification of forest habitat types of the Lincoln National Forest, New Mexico (25)", "Monsieur papa (23)", "A crustacean annotated transcriptome (CAT) database (23)", "The sequence to hydrogenate coronene cations: A journey guided by magic numbers (22)", "Systemic cat scratch disease: hepatic and splenic involvement about 3 pediatric cases. (21)", "Integration of Multiple Platforms for the Analysis of Multifluorescent Marking Technology Applied to Pediatric GBM and DIPG (18)", "Water, shape recognition, salt bridges, and cation-pi interactions differentiate peptide recognition of the HIV rev-responsive element (15)", and "A simplified protein precipitation/mixed-mode cation-exchange solid-phase extraction, followed by high-speed liquid chromatography/mass".

On the left, there are facet filters. The "author1" facet shows 62 choices, with "Franquin" having 2 choices, "Peyo" 2, "Atak" 1, "Aurélié William Levaux" 1, "Bob de Moor" 1, "Carín" 1, "Céline Fraipont" 1, "Colman" 1, "Dany" 1, "Dominique Goblet" 1, "Dupa" 1, and "Duru" 1. The "name: judgment" facet shows 2 choices, with "matched" 5 and "none" 59. The "name: best candidate's score" facet shows a bar chart with a range from 59 to 101, with "Numeric" checked (53), "Non-numeric" 0, "Blank" 11, and "Error" 0.

An arrow points from the "Billy the Cat" row in the spreadsheet to a Wikidata popup window. The popup shows the Wikidata page for "Billy the Cat" (Q20198456), described as a "French/Belgian animated series". It lists languages and labels: English (Billy the Cat), Spanish (No label defined), Catalan (No label defined), and Dutch (No label defined). It also lists descriptions: "French/Belgian animated series", "serie de televisión", "No description defined", and "televisieserie uit Canada". The "Statements" section shows "instance of" as "television series" with 0 references.

A Point of Interest looks like...

```
{  
  "id" : "Q863286",  
  "name" : "Schtroumpfs - Smurfen (Smurfs)",  
  "description" : "Comic book by Peyo in 2018",  
  "lat" : 50.8534930829,  
  "lon" : 4.34524297714,  
  "images" : [  
    "https://opendata.bruxelles.be/...",  
    "https://pbesteu.github.io/comics/bxl/images/001.jpg"],  
  "type" : "comic book",  
  "urls" : [ "https://www.comics.org/series/9582/" ],  
  "freebase" : "/m/079ch0",  
  "wikimedia" : "Q4537599"  
}
```



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Change colors, icons, texts... in different languages

```
"content": {
  "en": {
    "app": {
      "theme": {
        "brand": "#071F32",
        "complementary": "#FAFAFA"
      },
      "repository_url": "https://github.com/ow2-quick-app-initiative/poi-quick...",
      "text_info": "This app is created by local experts, so it ...",
      "text_acknowledge": "This is open-source and enriched by the community...",
      "text_feedback": "Please let us know if you want to contribute ...",
      "feedback_url": "https://ow2-quick-app-initiative.github.io/.../#get-involved",
      "issue_url": "https://github.com/ow2-quick-app-initiative/issues/new?labels=fr/paris"
    },
    "pois":
    [

    ]
  }
}
```

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Actions to validate JSON files and publish them

Triggered via push last month

	Status	Total duration	Artifacts
espinr pushed b42ef64 main	Success	41s	—

gh-deploy.yml
on: push

Workflow steps:

- validate-json-files** 7s
- Deploying to gh-pages** 15s

Workflow steps:

- validate-json-files** 5s
- Deploying to gh-pages** 0s

<https://ow2-quick-app-initiative.github.io/poi-quick-app-implementations/fr/paris/women/data.json>

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Test it and deploy it

<https://heritagein.info/?url=https://ow2-quick-app-initiative.github.io/poi-quick-app-implementations/fr/paris/women/data.json>

Illustrious Parisian Women

The application displays a grid of 8 women's profiles. Each profile includes a portrait photo, a name, a short biography, and two buttons: 'DETAILS' and 'LOCATION'. The women featured are Eugénie Cotton, Maryse Hilsz, Levha, Eleonora Zuliani, Louise Michel, George Sand, Annie Girardot, and Silvia Montfort.

Name	Profession	Distance from user	Key Information
Eugénie Cotton	Scientist	396.15 Km	A pupil of Marie Curie at the École normale supérieure de jeunes girls, Eugénie Cotton was received first in the female competition for the
Maryse Hilsz	Sports	396.59 Km	Pioneer of French aviation and holding many speed and distance records, Maryse Hilsz is also a strong figure in resistance during
Levha	Illustrious Parisian	398.00 Km	At 32 rue Saint-Maur is the restaurant of the Sisters Levha, the Double Dragon.
Eleonora Zuliani	Illustrious Parisian	398.19 Km	Italian trattoria, he Baccaro is between Place Voltaire and Father Lachaise and is held by the Eleonora Zuliani head.
Louise Michel	Politician	398.03 Km	Clémence-Louise Michel is one of the major figures in the town of Paris, she was a teacher but also an anarchist militant with feminist
George Sand	Illustrious Parisian	399.03 Km	George Sand was born at 46 rue de Meslay, a commemorative plaque is affixed on the facade of the building paying tribute to him.
Annie Girardot	Illustrious Parisian	399.26 Km	The 25 place des Vosges was the place of residence of Annie Girardot and Renato Salvatori from 1961.
Silvia Montfort	Actress	399.33 Km	Silvia Montfort was born at 11bis rue Elzévir in 1923.

COMMENTS? | ABOUT



This example was made in **one hour**



PARIS | Data

10 enregistrements

Aucun filtre actif

Filtres

Rechercher...

Femmes Illustres à Paris - Parcours

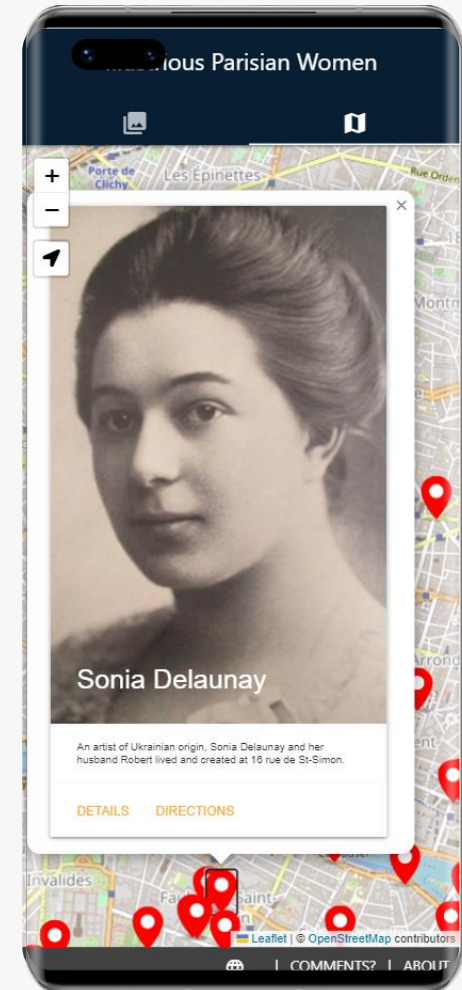
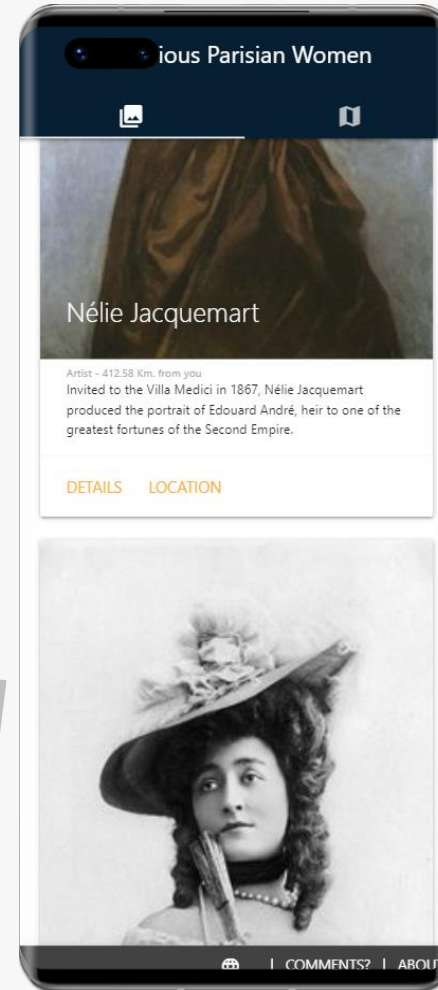
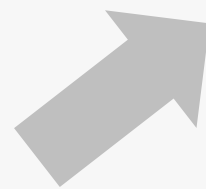
	OBJECTID	SHAPE_LEN	geo_shape	geo_point_2d
1	2	0	["coordinates": [2.34124698872043, 48.8500494852, 2.3382098226]	
2	3	0	["coordinates": [2.33284700054875, 48.8553175034, 2.32795638684]	
3	4	0	["coordinates": [2.3235330000551, 48.856887743, 2.3230429201]	
4	5	0	["coordinates": [2.3245800006878, 48.854493665, 2.31877953131]	
5	7	0	["coordinates": [2.31072157038824, 48.8530841848, 2.30968075019]	
6	8	0	["coordinates": [2.31786800254824, 48.8521335036, 2.3138430981]	
7	8	0	["coordinates": [2.30810988708677, 48.848830807, 2.30329483065]	
8	8	0	["coordinates": [2.2885179987158, 48.8488000414, 2.28534894439]	
9	1	0	["coordinates": [2.3419100003436, 48.8510727155, 2.34148746587]	
10	10	0	["coordinates": [2.27321798989111, 48.8516485522, 2.2735831378]	

<https://opendata.paris.fr/explore/dataset/femmes-illustres-a-paris-parcours/table/>



<https://openrefine.org>

```
{
  "id" : "8",
  "type" : "Artist",
  "lon" : "2.341775",
  "lat" : "48.85432",
  "name" : "Dora Maar",
  "description" : "Painter and sometimes a set photographer,
  "more" : "She produced the first photo report on the work of
  "images" : ["https://capgeo.sig.paris.fr/PdfEtImages/ParisC
  "attributions": ["Paris Data", "Direction de l'Attractivité
  "wikidata" : "Q236161",
  "urls": []
},
```

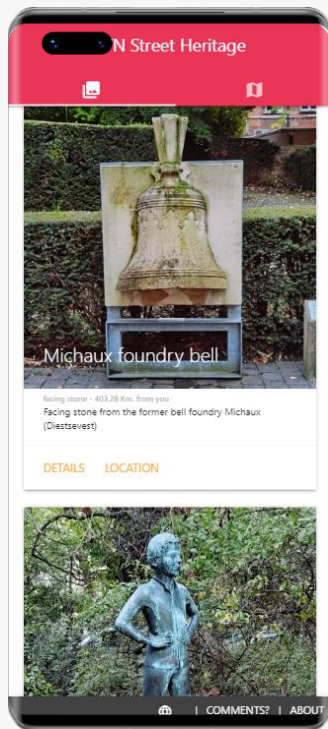


[Illustrious Parisian Women](#)

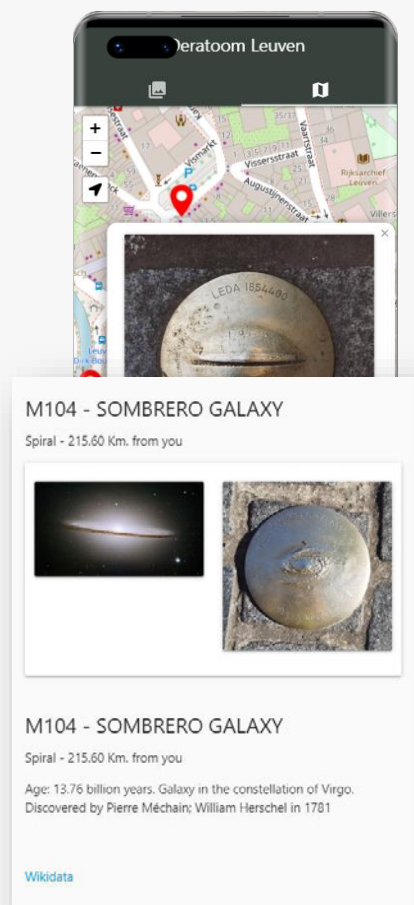
[In GitHub](#)

Infinite scenarios

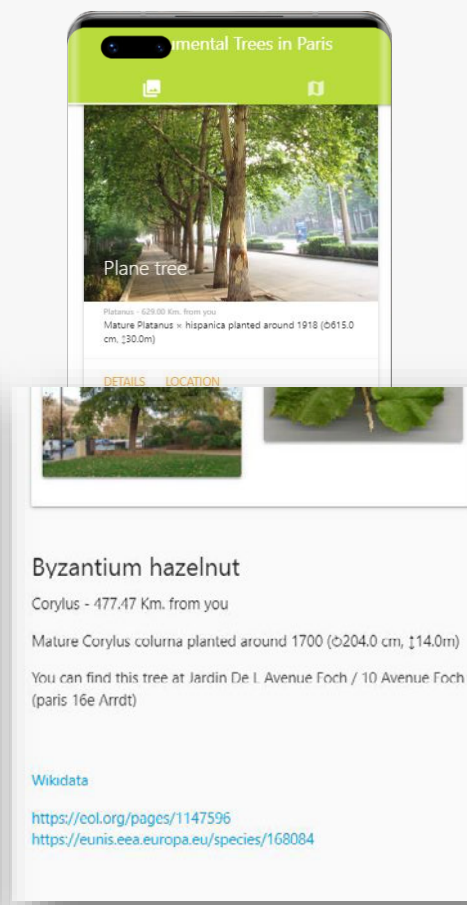
Cultural Heritage (art, local culture)



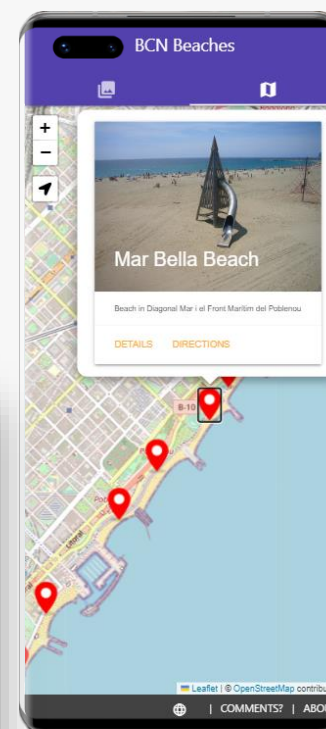
Big Bang Theory (astronomy)



Monumental Trees (botany)

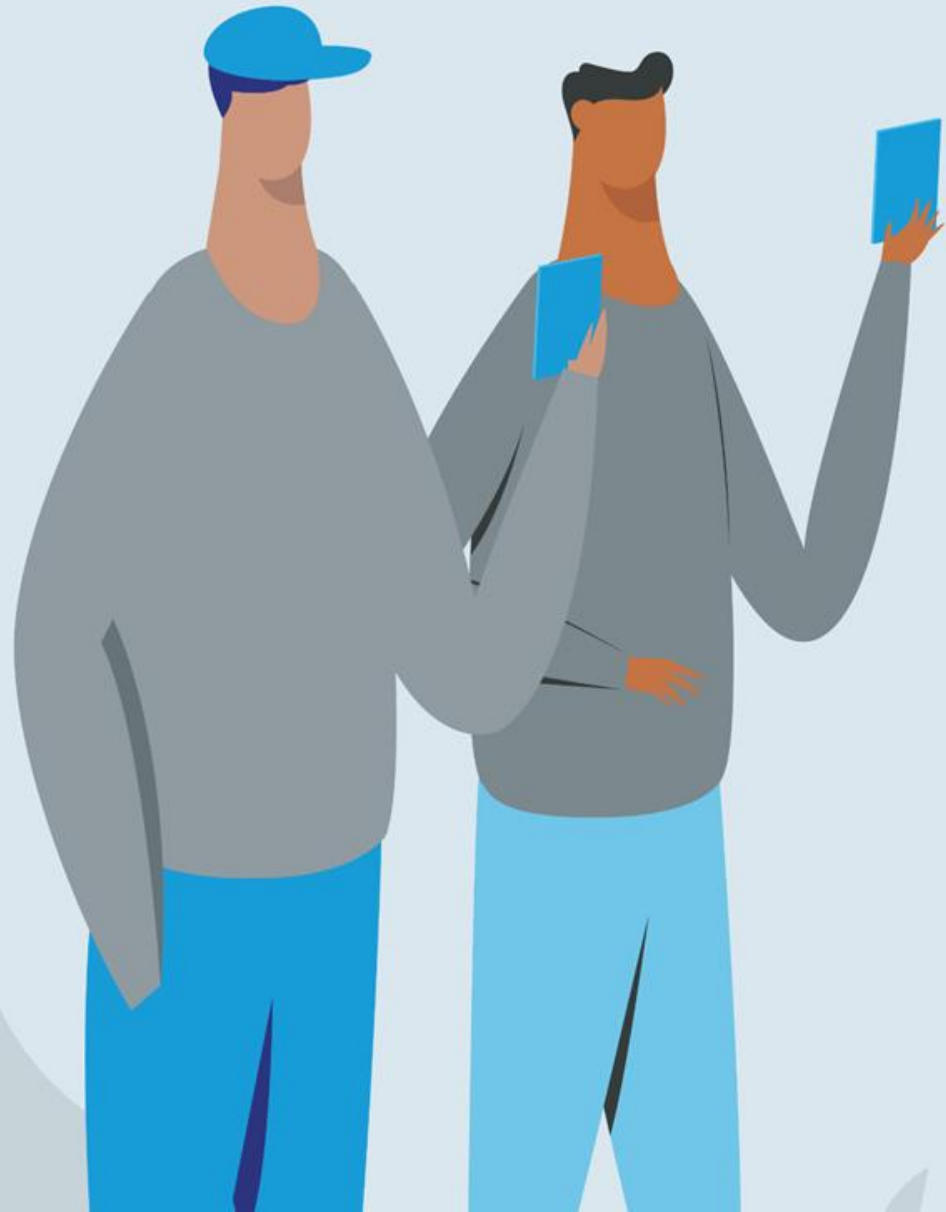


Beaches (tourism)



Illustrious Women (humans)





Thank
you!

