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

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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
Step 4: upload content to GitHub
Step 5: run the app

https://ow2-quick-app-initiative.github.io/poi-quick-app/
Process and system components

GitHub
- Methodology (documentation)
- Database (JSON template)
- Quick App (source code – template ready to customize)

Web App
(ready to visualize new implementations)

Maps Server
(map functions)

Open Data
(semi-automatic data collection and refinement)

Methodology
(application of the process of data collection and app customization)

Database
(Points of Interest list created by the user)

Quick App
(user can change name, customize colors…)

Database used by the quick app

GitHub
publication of database and images (Github Pages)

[HTTP]
Maps Server
[URI]

[HTTP]
Web App
[URI]

ANY USER
[Reuse template]

[HTTP]
Database used by the quick app

[HTTP]
Maps Server
[URI]

[HTTP]
Web App
[URI]

Publish quick app

WebView for maps
[Note: Quick apps do not support maps in Europe]

[HTTP]
Open Data
[URI]

[HTTP]
Maps Server
[URI]

[HTTP]
Web App
[URI]
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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 →**
We need to refine the open data

Adaptation to our templates
Using own scripts or Open Refine 😍
Also enriching with semantics our spreadsheet

https://www.wikidata.org/wiki/Q863286
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",  
    },  
    "pois": [  
    ]  
  }  
}
```
Heritage in… The Methodology

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Actions to validate JSON files and publish them

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

This example was made in **one hour**

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

https://openrefine.org

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**Illustrious Parisian Women**

- *Dora Maar*:
  - *type*: "Artist"
  - *lon*: "2.341775"
  - *lat*: "48.85432"
  - *name*: "Dora Maar"
  - *description*: "Painter and sometimes a set photographer, she produced the first photo report on the work of Pablo Picasso in 1920."
  - *images*: ""https://capgeo.sig.paris.fr/PdftImages/Paris/1920-1921_Dora_Maar_Femme_Flatte.jpg"
  - *wikidata*: "Q236161"

- *Sonia Delaunay*:
  - *Location*

In GitHub
Infinite scenarios

Cultural Heritage (art, local culture)

Big Bang Theory (astronomy)

Monumental Trees (botany)

Beaches (tourism)

Illustrious Women (humans)

https://heritagein.info
Thank you!

Martin Alvarez
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