

## **BRUSSELS COMIC BOOK ROUTE**

Application of the Local Heritage Quick App methodology

Martin Alvarez @espinr

#### About this document

This document shows an step-by-step example of how the <u>Local Heritage Quick App methodology</u> was applied to the Comic Book Route in Brussels.

The Local Heritage Quick App project provides a **methodology** and a **set of tools** for towns to promote their most precious assets, enabling citizens and institutions to launch new projects focused on local art, culture, history, nature, or whatever is engaging in a place.

# Background

- Objective:
  - > Something intuitive visitors and citizens can use
  - > Quick, simple and ready to use
  - > Multilingual
  - > Enriched by third-party data sources (Wikipedia, comic journals, etc.)
- Context
  - > What is Belgium famous for? Waffles, Chocolate, Beer, Comic books...
  - > Brussels has an open data initiative
  - > We have Quick App templates

**Brussels' Comic Book Route**: Since the early 90s, Brussels pays tribute to characters and authors of the Franco-Belgian comics on the walls in the city center





#### Step 1. clone and configure the project

Step 2. populate the database

Step 3. publish the database

Step 4. customize the app

Step 5. run (and publish) the app

#### Clone the open source project (basic git skills needed)

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≔ README.md		Release	s published
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The Local Cultural Heritage Quick through open data and crowdsou	App promotes cultural heritage collection rcing.	is in small and medium cities No packa Publish yo	jes published ur first package
It's free, open-source, and colla	aborative		
- Any city can implement its own ap	oplication in a few hours. They only need o	one or more experts to feed the first	ments 1
version of the database. Currently, we have the following p	proofs of concept:	\$\$∕ gith	ub-pages (Active)



Database and images, publicly accessible (also on the Web)

sample/  $\rightarrow$  example to rename and reuse

schema.json  $\rightarrow$  JSON schema to validate the database once it's updated.

data.json  $\rightarrow$  database



Quick App source code (need to compile before run)

**common/**  $\rightarrow$  media, images, resources

data.json  $\rightarrow$  local version of the database (it will be replaced in case the app finds a more recent update on the Web.



#### **i18n/** $\rightarrow$ localization of the user interface



pages/  $\rightarrow$  main components of the app



#### manifest.json/ $\rightarrow$ app metadata and setup

#### Process

Step 1. clone and configure the project

Step 2. populate the database

Step 3. publish the database

Step 4. customize the app

Step 5. run (and publish) the app

#### Brussels Open Data provides a dataset

Data Br	russel russels
Home Explore Cartograph	API License FAQ News Links Suggestions Contact
64 records	Comic book route
No active filters	🚯 Information IIII Table 🚱 Map 🖾 Images 🚣 Export 🚭 API
Filters	Location of comic book walls of the City of Brussels (with characters and authors).
Search records Q	Dataset Identifier comic-book-route
	Downloads 1,175
	Themes Culture, Heritage
	Keywords culture, tourisme, comic, strip
	License Licence Ouverte (Etalab)
	Language English
	Modified December 15, 2021 1:56 PM
	Publisher VisitBrussels
	Reference http://www.brussels.be/5316
	Territory <u>P</u> Bruxelles
	Last processing December 15, 2021 1:56 PM (metadata) December 15, 2021 1:56 PM (data)
	DCAT
	Created February 24, 2012
	Issued October 1, 2013
	Spatial City of Brussels
https://bruxellesdata.opendatasoft.com	Dataset schema
https://br	ruxellesdata.opendatasoft.com/explore/dataset/comic-book-route/table/

## ... in open format (CSV), by the way 🟵

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		4	Le Jeune Al	bert - De Jonge	Albert	Yves Chaland		50.8433593148, 4.35011386871	2000	le_jeune_albert.rui
		5	Jojo			Geerts		50.8351206193, 4.34547901154	1996	le_petit_jojo.rue_p
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		8			ter	Franquin		50.8492461098, 4.3537402153	2007	gaston_lagaffe.rue
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https://bruxellesdata.opendatasoft.com/explore/dataset/comic-book-route/table/

#### We need to refine the data

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	10.	Le Chat - De Kat	Philippe Geluck	50.8378444279,4.34198141098	1993	https://opendata.bruxelles.be/api/v2/catalog/data route/files/55f00cb9735ad5e3ac76deb2ae863be	sets/comic-book- 0
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Adaptation to our templates

#### Using own scripts or Open Refine 😎

https://openrefine.org

#### High-quality dataset with 64 Points of Interest

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	ជ		16.	Le roi des mouches	Mezzo	50.87640787,4.35762405396	2007	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book- route/files/b5cffaab92e82e4a0a93c1579632d32a					
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3 with no picture

All had name, and coordinates 👈

#### Data cleansing: split coordinate components

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#### Data cleansing: split several authors

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# Original dataset properly formatted

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		☆		18.	Le monde l'envers - De omgekeerde wereld	Atak		50.87798328811941	4.348827242299489	2021	
		☆		19.	Martine - Tinny	Marcel Marlier		50.876218314	4.35929775238	2004	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book- route/files/928f29a147e577c70480d4f905254d31
		☆		20.	Broussaille - Ragebol	Frank Pé		50.8467465143	4.34942722321	1999	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book- route/files/b17daccbf026ff22035464e3d0f12b51
		☆		21.	Caroline Baldwin	Taymans	Wesel	50.8487380728	4.33895587921	2003	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book- route/files/310a0910ca6fc0d6eb6845f8b1fca476
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One author/column

#### Geo. coordinates

Minor editorial changes

## Okay... but...

🔷 OpenRef	ine Comic Book Ro	oute BXL	_ Pe	rmalinl	k						Open Export - Help
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Franquin 2		<u></u> ź		2.	Blondin & Cirage - Blondie & Blinkie	Jijé		50.8382916052	4.34736728668	1998	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book- route/files/e3h8b7b02b73d4559a210ed2t27332cb2
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Aurélie William Lev Bob de Moor 1	aux 1	ź		] 4.	Schtroumpfs - Smurfen (Smurfs)	Peyo		50.845641	4.355886	2018	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book- mute/files/s89705/fe/b80e8673/4/2-14fd/1-16c
Carin 1 Céline Fraipont 1		z		5.	Après-midi place Bockstael - 's Namiddags aan het Bockstaelplein	Elodie Shanta		50.877108	4.346971	2021	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book- route/files/d7244fa78a65e9bc49ac482343340200
Colman 1		z		6.	Benoit Brisefer - Steven Sterk	Peyo		50.8391525	4.3504241	2015	
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Dupa 1 Dupuy 1		+ É	3 5	8.	LGBT	Ralf König		50.846751	4.349346	2015	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book- route/files/1fbd8432358b23177561a68366b4312e
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		z		] 11.	L'Ange de Sambre - De Aartsengel	Yslaire		50.8489412883	4.34687376022	1998	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book- route/files/h0c9a62962686c954fafb8c00b971f1c
		z		12.	Solastalgie	Eva Roussel		50.8807067871	4.34292840958	2021	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book- route/files/f172cca24447/d0276a7/cbde762877b
		Ł		13.	Marsupilami	Franquin		50.8907142	4.3371644	2013	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book- route/files/4/909466e3164c0ef0e0d5ae4a21a1d0
		z		14.	La Voie lactée	Mathilde Van Gheluwe		50.8394619195	4.34260158861	2019	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book- route/files/1f86ch113cd88bb60405f77a4c13fc73
		Ł		15.	Boule & Bill - Bollie & Billie	Roba		50.8376411641	4.3455862999	1992	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book- route/files/4e84973dda8839c63fb15edbe02671c7
		z		16.	Le roi des mouches	Mezzo		50.87640787	4.35762405396	2007	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book- route/files/b5cffaab92e82e4a0a93c1579632d32a
		z		17.	Blake & Mortimer	Jacobs		50.8398908	4.3513569	2005	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book- route/files/5082678d893671de023f9157caa227fa
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		ź		20.	Broussaille - Ragebol	Frank Pé		50.8467465143	4.34942722321	1999	https://opendata.bruxelles.be/apii/v2/catalog/datasets/comic-book- route/files/b17daccbf026f02035464e3d0f12b51
		Z		21.	Caroline Baldwin	Taymans	Wesel	50.8487380728	4.33895587921	2003	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book- route/files/310a0910ca6fc0d6eb6845f8b1fca476
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Who is *Billy the Cat*? ...and *Colman*? ...and *Desberg*?



https://www.parcoursbd.brussels/en/fresques/billy-the-cat/

### Looking for the semantics

Reconcile each cell to an entity of one of these types:	Access Service API	
<ul> <li>comic book series Q14406742</li> <li>comic book album Q2831984</li> <li>community Q177634</li> <li>silent film Q226730</li> <li>media franchise Q196600</li> <li>gag cartoon Q3543088</li> <li>version, edition, or translation Q3331189</li> <li>social movement Q49773</li> <li>manazine</li> <li>Reconcile against type:</li> <li>Auto-match candidates with high confidence</li> </ul>	Column Include? As Property   author1   author2   Iatitude   longitude   year	
Maximum number of candidates to return		

Reconciliation of *painting title* to external semantic entities (Wikidata)

We could use official (trusted) endpoints

#### 30" later, we have semantics in our spreadsheet



## We can reconcile by a specific type

econcile each cell to an entity of one of these types:	Access Service API <i>P</i> Also use relevant details from other columns:
<ul> <li>comic book series Q14406742</li> <li>comic book album Q2831984</li> <li>community Q177634</li> <li>silent film Q226730</li> <li>media franchise Q196600</li> <li>gag cartoon Q3543088</li> <li>version, edition, or translation Q3331189</li> <li>social movement Q49773</li> <li>magazine</li> <li>Reconcile against type:</li> </ul>	Column Include? As Property   author1   author2   latitude   longitude   year   photo
Auto-match candidates with high confidence	

We are just focused on comic books, so we'll be accurate.

#### Some perfect, and close matches

<b>OpenRefine</b> Co	mic Book Route E	3XL Permalin	k										Open E	xport -	Help		
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× – author1	change 📤		▼ name	<ul> <li>author1</li> </ul>	💌 autho	or2 🔽	latitude	e 🔽 Iongitu	de	💌 year	<b>v</b> photo				A		
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none 39			Smurf Versus Smurf (59)		☆	숤 디 2.	2. Blondin & Cirage -		Blondie	die & Blinkie edit		Jijé		50.838291605		4.34736728668	1998
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Ų	U I		Smurfs (46)					🖌 🏑 Les Nouve	lles Aver	nture	212						
59 — 101	•I		Howlibird (45)					Blondin et 🗸 🗸 🗸	Cirage ( lanc (45	(50) 5)	and a						
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# Finally, 48 matches

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Dupa 1	52	57.7.	Choose new match Corto Maltese	Sterk Corto Maltese	Pratt		50.8605342	4.3485253	2009	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book-
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	☆	<b>5</b> 7 2'	1. Caroline Baldwin Choose new match	Caroline Baldwin	Taymans	Wesel	50.8487380728	4.33895587921	2003	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book- route/files/310a0910ca6fc0d6eb6845f8b1fca476
	☆	<b>S</b> 24	<ol> <li>Léonard Choose new match</li> </ol>	Léonard	Turk	De Groot	50.8381135	4.3468826	2015	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book- route/files/1a2f0b57f0fbcd573ae2ef2b7616945f
	☆	<b>S</b> 25	5. Odilon Verjus Choose new match	Odilon Verjus - Govert Suurbier	Verron	Yann	50.8386439237	4.34633731842	2004	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book- route/files/6dbba6f299b0ace70c476a0bca8518a0
	☆	5 26	5. Thorgal Choose new match	Thorgal	Grzegorz Rosinski	Jean Van Hamme	50.8436175268	4.34409090675	2013	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book- route/files/761fbc33410c8ee3dcc577a7151eb9af
	☆	5 28	3. Petit Poilu Choose new match	Petit Poilu - Stoppeltje	Céline Fraipont	Pierre Bailly	50.8929672241	4.42356586456	2020	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book- route/files/9f7af2d4543c532cb7ecde36b5f4822c
	岔	5 30	). Le Scorpion Choose new match	Le Scorpion - De Schorpioen	Marini		50.8477626262	4.3621301651	2002	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book- route/files/911d3d085d018edc2900ffc719e3b755
	슔	<b>-</b> 7 3'	1. Asterix Choose new match	Astérix & Obélix	Goscinny	Uderzo	50.8464078054	4.34236764908	2005	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book- route/files/89490221814a09a86fe477f4003c14f4
	슔	5 32	2. Gaston	Gaston Lagaffe - Guust	Franquin		50.8492461098	4.3537402153	2007	https://opendata.bruxelles.be/api/v2/catalog/datasets/comic-book-

### We are speaking in terms of Linked Data (for almost humans)

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Tools What links here Related changes Special pages Permanent link Page information Concept URI Cite this page	Statements instance of	s	n series rences	<ul> <li>✓ edit</li> <li>+ add reference</li> <li>+ add value</li> </ul>	<pre>schema:isPartOf <https: id.wikipedia.org=""></https:> ; schema:name "Billy the Cat"@id . <https: id.wikipedia.org=""></https:> wikibase:wikiGroup "wikipedia" . <https: billy_the_cat="" de.wikipedia.org="" wiki=""> a schema:Article ; schema:about wd:Q863286 ; schema:inLanguage "de" ; schema:isPartOf <https: de.wikipedia.org=""></https:> ; schema:isPartOf <https: de.wikipedia.org=""></https:> ; schema:name "Billy the Cat"@de . </https:></pre>

# Enrich the dataset with more information (thanks, KGs <sup>(C)</sup>)

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2	ជា	7.	View	•	Add column by fetc	hing URLs		50
•			Reconcile	•	Add columns from r	reconciled value	es	
		8.	LGBT community Choose new match	LGB	Rename this colum	n		5
3	5	9.	Quick & Flupke Choose new match	Quic	Remove this colum	n		5
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#### Polish the dataset: unique identifiers for each row

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#### Double check there are no duplicates

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#### We use facets

#### Data ready to be exported to our templates

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#### And we have the database of Pols

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Reset Template	Export Cancel

# Details of a Point of Interest (by default)

```
"id" : "Q863286",
"name" : "Billy the Cat",
"description" : "Comic book by Colman and Desberg in 2000",
"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" : "Q863286"
```

Anyone can **upload images to docs/** folder in the repository (they will be public) and link them from the data.json file.



#### Process

Step 1. clone and configure the project

Step 2. populate the database

Step 3. publish the database

Step 4. customize the app

Step 5. run (and publish) the app

#### Project components and app execution



#### How to update the database

Search or jump to /	Pull requests Issues Marketplace Explore	<pre>"meta": {     "app_title": "BXL Comic Book Route",     "version": 1,     "wedsted": "2022 05 12"</pre>
pbesteu / comic-book-route-quick- generated from pbesteu/poi-quick-app	-app (Public)	"source_url": "https://pbesteu.github.io/comic-book-route/blx/data.json", },
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espinr Reduced GIF size		"lat" : 50.8534930829,
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C README.md	Reducing size of image	Update the data. ison in the repository
🗅 data.json	Better documentation and images	
i⊟ README.md		Increase the version number
Brussels Comic Bo	ook Route - Quick App	
This project is based on the City of E	Brussels Open Data initiative. It uses the data fro	m the official data:



## Publication of content on GitHub pages

The content of the project (info, database and images) are served as HTML using GitHub pages.

There is a custom action to publish the ./doc directory of the main repository into the gh-pages branch

GitHub is configured to serve the content of the root directory of the gh-pages (the last valid copy of the content in the repository).

If the latest version of the database JSON is not valid, the deployment is halted.

#### **GitHub Pages** GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository. (i) Your site is ready to be published at https://espinr.github.io/local-cultural-heritage/ Source Your GitHub Pages site is currently being built from the gh-pages branch. Learn more. 운 Branch: gh-pages -📄 / (root) 🗸 Custom domain Custom domains allow you to serve your site from a domain other than espinr.github.io. Learn more. Enforce HTTPS Required for your site because you are using the default domain (espinr.github.io) When HTTPS is enforced, your site will only be served over HTTPS, Learn more



#### GitHub Settings > Pages

# Validation of JSON files (continuous integration actions)

After every update, the new JSON files are validated against a JSON Schema

This prevents mistakes and corrupt databases causing failures in the app.

```
name: Validate JSON data and config files
on: [push]
jobs:
  validate-json-files:
    runs-on: ubuntu-latest
    steps:
        - uses: actions/checkout@v3
        - uses: vanekj/validate-json-action@v1.0.0
        with:
            schema: docs/schema.json
            pattern: docs/*/**/*.json
```

```
    gh-deploy.yml

    on: push

      validate-json-files

      5s

      Ss

      Deploying to gh-pages

      0s
```

```
Valid JSONs
```

Wrong JSONs (deployment halted)



# Activate GitHub Pages

If you cloned the project, you also have access to all the CI actions and configure these steps:

- 1. Create a gh-pages branch that will be used to publish the content.
- 2. Create a personal token
  - a) (Profile > Settings > Developer Settings > Personal access tokens)
  - b) Generate new token > Add a name + [no expiration] + check "repo" in the scope > Generate token
  - c) Copy the token generated in the clipboard
- 3. Create a secret with your token
  - a) Project's Settings > (Security) Secrets > Actions
  - b) New repository secret with

Name: ACCESS\_TOKEN

Value: the token (in your clipboard)

- 4. You can verify that the CI Action works properly (Project's Actions) → re-run the jobs with failure (after that, they must be in green)
- 5. In project's Settings > Pages you can see the public URL of your site with the template of the documentation.



Personal access tokens	Generate new token	
Tokens you have generated that can be used to access the GitHub API.		
Make sure to copy your personal access token now. You won't be able to see it again		
✓ ghp_j0t2n8BcPiC8NpW506GhZ541MNvYyN06JKRv ᠿ		
AWS token — repo		

<b>gh-deploy.yml</b> on: push		
validate-json-files	11s • O O Deploying to gh-pages	

#### Process

Step 1. clone and configure the project

Step 2. populate the database

Step 3. publish the database

#### Step 4. customize the app

Step 5. run (and publish) the app

### Open the code in the Quick App IDE

Ø File Edit View Build Tools Ni	pm Publish Help • manifest.json - quick-app - Huawei QuickApp IDE	- 0 X
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## manifest.json with the name and version of your app

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### Rewrite the app logo and the icon (also *placeholder.jpg*)

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# Customize the app with your descriptions and URLs

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#### Paste the Points of Interest database you created

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#### Internationalization: adapted to user's locale

#### **USER INTERFACE**

User interface (UI) in different languages. The community may help translate the UI (10' per language)



The University Library built between 1921 and 1928, a gift from the American people to the city and to KU Leuven



Klein Begijnhof 690 m from here Small Beguinage, neighborhood inhabited by beguines until the 19th century near the Sint-Geertrui abbey



#### **CONTENT (Pols database)**

Content can be in different languages For instance: German and English below



#### Old Beacon

528.26 km from here

Old beacon; 1907; guard house with mounted beacon chamber, plaster building with flat hipped roofs, from 1986 residential building

#### Process

Step 1. clone and configure the project

Step 2. populate the database

Step 3. publish the database

Step 4. customize the app

Step 5. run (and publish) the app

#### Install the dependencies



#### Connect your device and run the first test



## Quick App ready in less than one hour



Schtroumpfs - Smurfen (Smu... <sup>24,32 km from</sup> Comic book by Peyo in 2018



 Kiekeboe
 24.37 km from here

 Comic book by Merho in 2009
 24.37 km from here

 Image: Cards
 Image: Cards



Schtroumpfs – Smurfen (Smurfs) Approx. at 24.32 km from here Comic book by Peyo in 2018

More information: <u>Freebase</u> https://www.comics.org/series/100275/









#### A big thanks to Brussels Open Data

See the quick app: https://appgallery.huawei.com/app/C106421983 Reuse the project: https://github.com/pbesteu/comic-book-route-quick-app Martin Alvarez @espinr

#### Process

Step 1. clone and configure the projectStep 2. populate the databaseStep 3. publish the databaseStep 4. customize the appStep 5. run (and publish) the app[maintenance] How to add new items (Pols)

## How to add a new image?

- 1. Follow the recommendations (ratio aspect and size) for a homogenous look and feel
- 2. Rename the images in a meaningful way (using the identifier of the Pol)

#### Example: Chinese Astrolabe







astrolabe\_4.jpg



astrolabe\_2.jpg



astrolabe\_5.jpg



astrolabe\_6.jpg

#### 3. Upload them to the ./images/ folder of your repository



Now these images are available at:

https://espinr.github.io/local-cultural-heritage/be/leuven/images/astrolabe.jpg https://espinr.github.io/local-cultural-heritage/be/leuven/images/astrolabe\_2.jpg ...

And can be used in the description of the Pols

## How to add a new Pol in the database

(1) Identify the coordinates (latitude, longitude)

- > Probably your smartphone geolocates the image, just check the information of the picture
- > Or, use a map tool to collect the coordinates



(2) Describe the point of interest in the **data.json** file in the repository. Just add a new object at the end with these attributes:

{	
	"id": "astrolabe",
	"name": "Kangxi Hemelglobe",
	"description": "Functional Chinese Astrolabe engraved with 1.888 stars and celestial bodies",
	"more": "This bronze globe weighs 3.850 kg and is 2.76 metres high. The celestial bodies incl
	"lat": "50.87525674044207",
	"lon": "4.700880771666212",
	"type": "astrolabe",
	"images": [
	"https://espinr.github.io/local-cultural-heritage/be/leuven/images/astrolabe.jpg",
	"https://espinr.github.io/local-cultural-heritage/be/leuven/images/astrolabe_2.jpg",
	"https://espinr.github.io/local-cultural-heritage/be/leuven/images/astrolabe_3.jpg",
	"https://espinr.github.io/local-cultural-heritage/be/leuven/images/astrolabe_4.jpg",
	"https://espinr.github.io/local-cultural-heritage/be/leuven/images/astrolabe_5.jpg",
	"https://espinr.github.io/local-cultural-heritage/be/leuven/images/astrolabe_6.jpg"
	Ъ
	"urls": [
	"http://2020group1.onlinepublishing.ulyssis.be/kangxi-hemelglobe-atrechtcollege"
	]
}	

At the top of the document, change the version

## In a few seconds, the Pol is accessible on the quick app

- Publishers don't need to create another quick app release and upload it to AppGallery
  - > Just modify the database, upload pictures
- This process should be moderated by one of two experts for supervision, curation, and approval of the changes (configuration in GitHub).



#### Kangxi Hemelglobe

prox. at 443 m from here

Functional Chinese Astrolabe engraved with 1.888 stars and celestial bodies

This bronze globe weighs 3.850 kg and is 2.76 metres high. The celestial bodies included were known at the end of the 17th century. The celestial globe is an exact replica of the instrument that Jesuit Ferdinand Verbiest drew at the imperial court in China in 1673.

#### More information: http://2020group1.onlinepublishing.ulyssis.be/kangxi-hemelglo

