Open Museum Guidebooks

Team Data Science, HsH

2025-06-13

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Welcome

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The 'Open Museum' pitch is that the public take part in this cataloguing and a Citizen Science Experience.

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Project inspired by the 1700s database - Corpus Johann Joachim Winckelmanns (1717–1768). Census.de

Chapter 1

Guide: Architecture (exterior) - Sprengel Museum

Description: Lorem ipsum dolor sit amet consectetur adipiscing elit. Quisque faucibus ex sapien vitae pellentesque sem placerat. In id cursus mi pretium tellus duis convallis. Tempus leo eu aenean sed diam urna tempor. Pulvinar vivamus fringilla lacus nec metus bibendum egestas. Iaculis massa nisl malesuada lacinia integer nunc posuere. Ut hendrerit semper vel class aptent taciti sociosqu. Ad litora torquent per conubia nostra inceptos himenaeos.

Timeline: URL link

Created by: User name, date

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Chapter 2

Guide: Architecture (interior) - Sprengel Museum

Description: Lorem ipsum dolor sit amet consectetur adipiscing elit. Quisque faucibus ex sapien vitae pellentesque sem placerat. In id cursus mi pretium tellus duis convallis. Tempus leo eu aenean sed diam urna tempor. Pulvinar vivamus fringilla lacus nec metus bibendum egestas. Iaculis massa nisl malesuada lacinia integer nunc posuere. Ut hendrerit semper vel class aptent taciti sociosqu. Ad litora torquent per conubia nostra inceptos himenaeos.

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Chapter 3

Guide: Public Art - Sprengel Museum

Description: Lorem ipsum dolor sit amet consectetur adipiscing elit. Quisque faucibus ex sapien vitae pellentesque sem placerat. In id cursus mi pretium tellus duis convallis. Tempus leo eu aenean sed diam urna tempor. Pulvinar vivamus fringilla lacus nec metus bibendum egestas. Iaculis massa nisl malesuada lacinia integer nunc posuere. Ut hendrerit semper vel class aptent taciti sociosqu. Ad litora torquent per conubia nostra inceptos himenaeos.

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About

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1. Use case

- A museum visitor makes a list of items that are significant to them and they want to share. The list shows the item on a map and as a table, with links to more information and data.
- A person finds the list online and make a visit to the museum.
- The public catalogues exhibition dates and information on Wikidata. The public catalogues items on display in an exhibition.

2. Value proposition

- The public can learn about chosen topics using museums.
- The public can learn data science skills.
- Museums can attract more visitors.
- Museums can support deep learning in their respective knowledge domains.
- A permanent record of museums work will be created.

3. Persona and storyboard (needs / blocking)

- Musuem visitor: Needs: The visitor want to share info with friends and family about their favourite artworks. Blocking: The museum has no data feed of exhibition dates or what is being exhibited. If the visitor wanted to share the information it would be a long, long, labour of love.
- Musuem exhibition organiser: Needs: Visitors and engagement. Blocking: No exhibition data available for people to find out about contemporary or past exhibitions. The museum should have all this data but is not making it public.
- Special interest group (Climate change education group): Need: Ensure access understanding of climate change is represented in regional museums. The group would contribute volunteer time to cataloging efforts and outreach. Blocking: Not able to find dates of exhibitions or information about what was exhibited.

4. Problem / solution

Problem: A museum visitor cannot share information about exhibitions or the exhited items as museums don't publish this data.

Solution: Support museums visitors to publish and use the data as a citizen science project 'Open Musuem'. The data is has two parts: A. A calendar of exhibitions, and B. A catalogue of items in an exhibition. Both of these data would be catalogues and indexed using Wikimedia infrastructure.

5. A schematic

Wikibase - Making a Guide

This is a workflow to create a museum guide based on an Linked Open Data utilising Wikidata, Wikimedia Commons, Wikibase, and Wikipedia.

The guide and its items are stored in a Wikibase instance. Most of the data used in the items are pulled from Wikimedia Commons. If Wikidata entries exist, they will be linked to the items.

The goal is to make existing data usuable for the museum and the generated information accessible to the public.

Foundational Assumptions / Ideal World Vision

The Open Museum (Idea World Vision)

- All artwork from exhibitions, architecture, and public art is databased with pictures and geolocation on *Wikimedia Commons*
- Some items have *Wikidata* and *Wikipedia* entries
- A calendar of a museums exhibitions exists in *Wikidata*

Guide data model

Our example guide has 9 items. Because 9 is a magic number!

(= has 9 Guide items)

A Guidebook list

- **Title / ID (mandatory)**
- Authors
- Creation date
- Description
- **List of guide items (mandatory)**
- Location
- Category (from Wikimedia Commons?)

Label	Example Value	Datatype	Note
Title	*Sprengel Guide* or *Q001*	Text	mandatory. can be a Q-number
Author	*Erika Mustermann*	String, or maybe Item if we have user accounts	optional, repeatable.
Creation Date	*2025-04-07*	Point in Time	optional
Description	*Guide to the public art around Sprengel museum.*	String	optional
Guide Item	*Another Twister*	Item	mandatory, repeatable. for 9 items we need 9 of these entries
Location	*Hanover*	String	optional
Category	*Images of Sculptures*	String	optional

A Guide Item

(= part of Guide object)

- Title
- Picture
- Geolocation / coordinates
- Description
- Wikidata ID (if available)

→ ideally, all this info can be taken from Wikimedia Commons

Label	Example Value	Datatype	Note
Title	*Another Twister* or *Q20*	String	
Picture	*Another_Twister.jpg*	Commons media file	automatically searches the *File:* namespace on Commons
Geolocation	*52.363442, 9.739542*	Geographic coordinates	
Description	*Sculpture by Alice Aycock*	String	
Wikidata ID	*Q523722* (transforms to *https://www.wikidata.org/wiki/Q523722*)	External identifier	can be used to get additional information, such as links to Wikipedia. the property has to be set up with a formatter URL

Possible Additions

Timeline

→ for an overview of architecture

→ take one building (Sprengel museum) and document when its individual buildings were added

Related work

https://calnfynn.github.io/KarteHannover/

Citizen Science

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Learning materials

https://computational-publishing-service.wikibase.cloud/wiki/Transfer_Commons_Images_to_Wikibase#QuickSta

https://nfdi4culture.gitlab.io/computational-publishing-service/cps-documentation/guide/2_importing_data_with_

Data Models

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A guidebook list item

(= part of Guide object)

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- Picture
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An image map

A timeline

A publication

A publication deposit

Learning materials

https://tib.eu/cloud/s/nKKnQgHgyLn66Fw#h-data-model-creation-a-step-by-step-guide