When GLAM & Education Come Together:

Educational Potential of Cultural Heritage in Wikidata
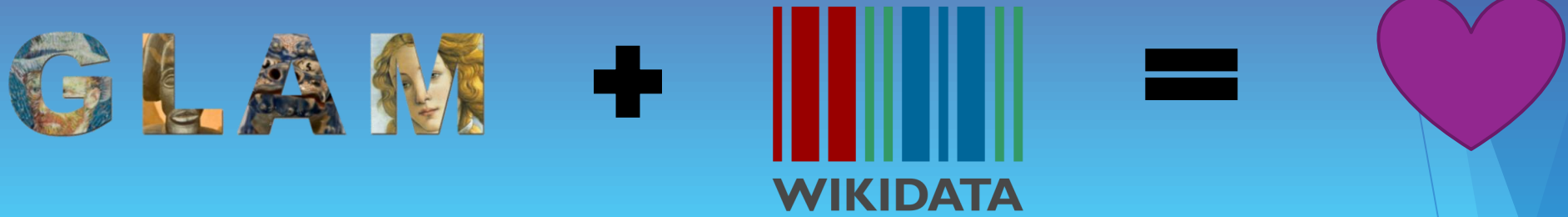
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Heritage Connector project; The Science Museum, UK; The V & A; School of Advanced Study, University of London

A (short) Introduction

Webinar's Focus:

GLAM + WIKIDATA = ♥

This presentation:

GLAM + 🎓 + WIKIDATA = ♥ ♥

My perspective

1) Open Knowledge advocate:

Working with a variety of institutions

2) Educator:

Experimenting with Wikidata in the classroom

3) Researcher:

PhD focuses on Wikidata as a learning platform

- Interactions: Data Curation & Data Extraction
- Life-long learning
- Aspects that may influence learning
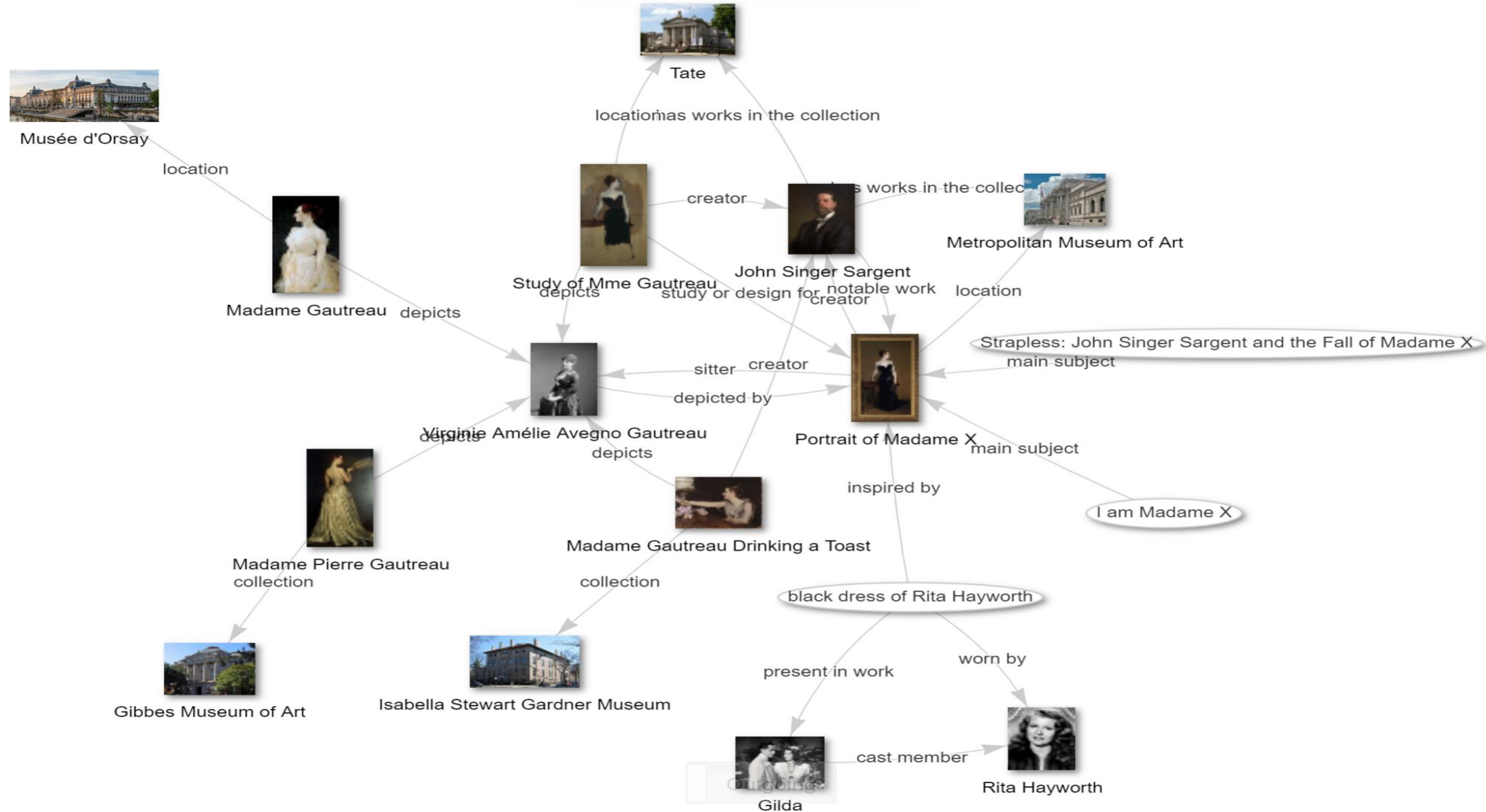
Focus Today

- **Educational perspective on Cultural Heritage in Wikidata**

- **A global overview**

- **Revealing usage patterns of early adopters**

- **Benefits to learners**

Case studies & Wikidata uses of GLAM and Education

1. The Metropolitan Museum of Art

Unraveling links, connections and relationships

The Met museum Dashboard

a.k.a. the Met Open Access Portal on Wikidata

Wikidata:GLAM/Metropolitan Museum of Art/All objects

< Wikidata:GLAM | Metropolitan Museum of Art

Dashboards for The Metropolitan Museum of Art Open Access project

| Overview | All objects | Timeline of Art History | Timeline *inventory* | Highlights | Highlights *inventory* | Issues | Popular works | Other tools |

This table describes the completeness of properties in Wikidata for all Met objects (10,000+). A good reference for item structure for visual works: Wikidata:WikiProject_Visual_arts/Item_structure.

all entities | count | all groupings | without grouping property | below threshold (1)   Manually update

Top groupings (Minimum 1 items)		Top Properties (used at least 0 times per grouping)							
Name	Count	image (P18)	inception (P571)	height (P2048)	width (P2049)	creator (P170)	The Met object ID (P3634)	inventory number (P217)	described at URL (P973)
painting (Q3305213)	11024	67.77% (7471)	98.71% (10882)	71.77% (7912)	71.62% (7895)	95.5% (10528)	100.0% (11024)	100.0% (11024)	2.5% (276)
sculpture (Q860861)	419	67.78% (284)	82.1% (344)	11.46% (48)	8.83% (37)	50.84% (213)	100.0% (419)	100.0% (419)	1.91% (8)
drawing (Q93184)	356	65.17% (232)	82.87% (295)	42.42% (151)	42.13% (150)	79.78% (284)	100.0% (356)	100.0% (356)	0.28% (1)
woodcut print (Q18219090)	172	99.42% (171)	84.3% (145)	20.35% (35)	20.35% (35)	100.0% (172)	100.0% (172)	98.84% (170)	17.44% (30)
watercolor painting (Q18761202)	138	93.48% (129)	90.58% (125)	84.06% (116)	84.06% (116)	89.13% (123)	100.0% (138)	100.0% (138)	0% (0)
literary work (Q7725634)	119	86.55% (103)	99.16% (118)	13.45% (16)	3.36% (4)	14.29% (17)	100.0% (119)	100.0% (119)	0.84% (1)
figure (Q29527347)	104	8.65% (9)	31.73% (33)	0% (0)	0% (0)	0% (0)	100.0% (104)	100.0% (104)	0% (0)
photograph (Q125191)	89	92.13% (82)	93.26% (83)	13.48% (12)	13.48% (12)	55.06% (49)	100.0% (89)	98.88% (88)	3.37% (3)
vase (Q191851)	88	57.95% (51)	64.77% (57)	7.95% (7)	3.41% (3)	22.73% (20)	100.0% (88)	100.0% (88)	1.14% (1)
print (Q11060274)	63	55.56% (35)	84.13% (53)	9.52% (6)	9.52% (6)	68.25% (43)	100.0% (63)	100.0% (63)	3.17% (2)
furniture (Q14745)	53	79.25% (42)	96.23% (51)	5.66% (3)	5.66% (3)	43.4% (23)	100.0% (53)	100.0% (53)	0% (0)
statuette (Q16738862)	49	93.88% (46)	95.92% (47)	4.08% (2)	2.04% (1)	6.12% (3)	100.0% (49)	100.0% (49)	0% (0)
textile artwork (Q22075301)	44	9.09% (4)	90.91% (40)	0% (0)	0% (0)	81.82% (36)	100.0% (44)	100.0% (44)	0% (0)
evening wear (Q1908472)	44	0% (0)	47.73% (21)	0% (0)	0% (0)	22.73% (10)	100.0% (44)	100.0% (44)	0% (0)
tapestry (Q184296)	40	92.5% (37)	95.0% (38)	55.0% (22)	55.0% (22)	70.0% (28)	100.0% (40)	100.0% (40)	0% (0)
codex (Q213924)	38	100.0% (38)	100.0% (38)	23.68% (9)	15.79% (6)	13.16% (5)	100.0% (38)	100.0% (38)	0% (0)
evening dress (Q2144456)	36	11.11% (4)	55.56% (20)	0% (0)	0% (0)	30.56% (11)	100.0% (36)	100.0% (36)	0% (0)
bowl (Q153988)	35	57.14% (20)	71.43% (25)	11.43% (4)	5.71% (2)	8.57% (3)	100.0% (35)	100.0% (35)	0% (0)
metal artwork (Q29382731)	29	100.0% (29)	100.0% (29)	17.24% (5)	17.24% (5)	10.34% (3)	100.0% (29)	100.0% (29)	0% (0)
illuminated manuscript (Q48498)	27	100.0% (27)	100.0% (27)	74.07% (20)	74.07% (20)	77.78% (21)	100.0% (27)	100.0% (27)	7.41% (2)
bronze sculpture (Q928357)	27	100.0% (27)	100.0% (27)	11.11% (3)	7.41% (2)	29.63% (8)	100.0% (27)	100.0% (27)	0% (0)
stained glass (Q1473346)	26	100.0% (26)	100.0% (26)	19.23% (5)	19.23% (5)	76.92% (20)	100.0% (26)	100.0% (26)	0% (0)
hanging scroll (Q2188827)	26	65.38% (17)	96.15% (25)	26.92% (7)	26.92% (7)	65.38% (17)	100.0% (26)	100.0% (26)	0% (0)

"Depiction" Wikidata Game

Depiction

Decide whether the image depicts the named item.

Entry type : Horse | Soldier | Dresses | House | Flower | Boat | **Tree** | Leaf

Javanese Temple in Ruins [Q20503317]
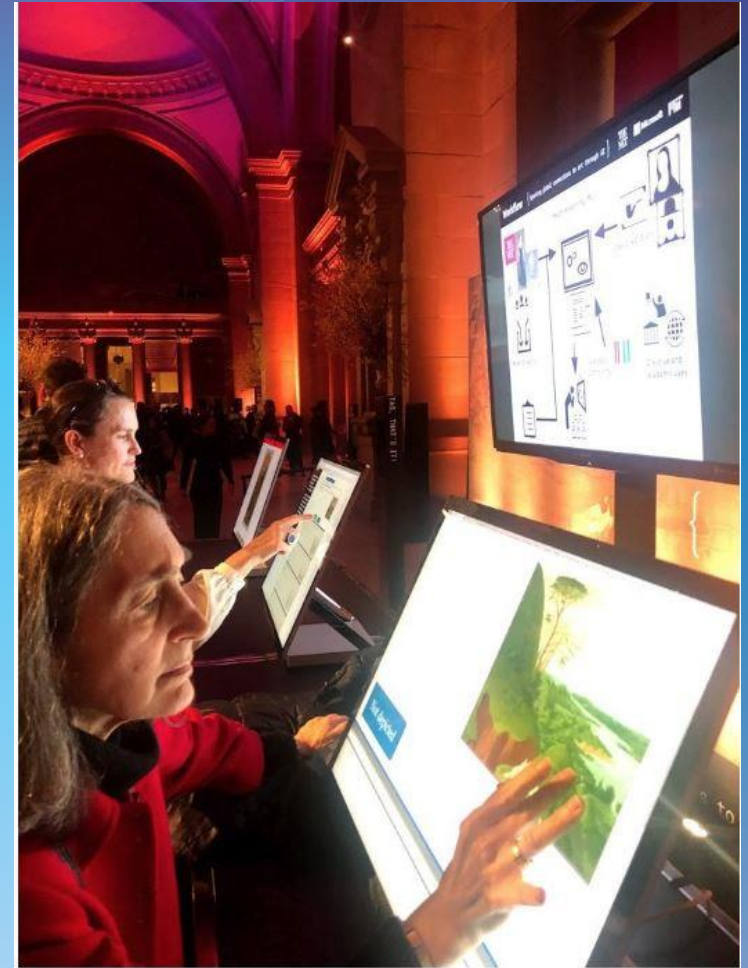
Reruntuhan candi Jawa   Tempelruinen auf Java

`Auto`

Painting by Raden Saleh, from 1860

Depicts a tree | Skip | Not depicted

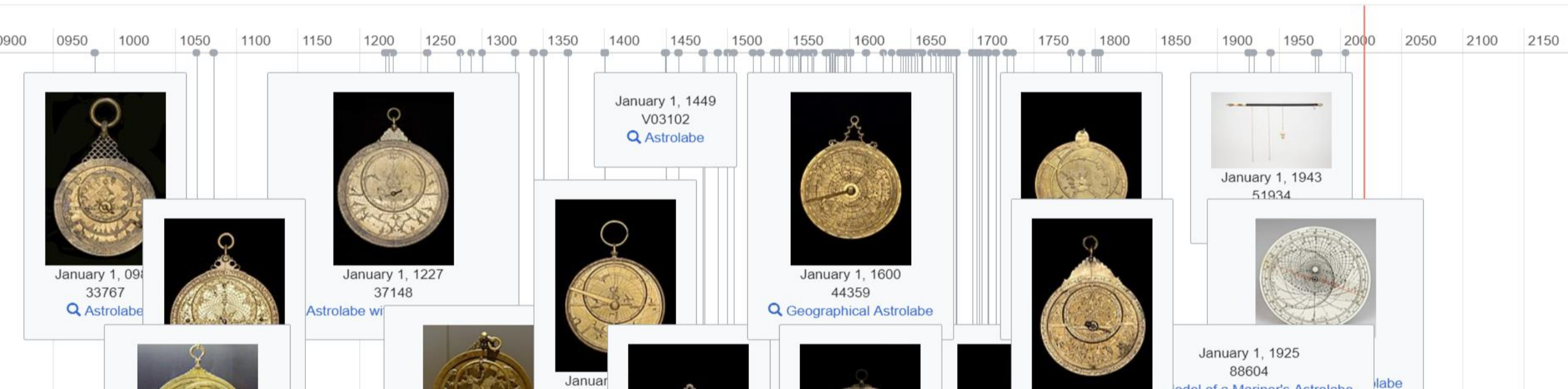# 2. The Bodleian Libraries, University of Oxford, UK: The Astrolabe Explorer

3. University of Edinburgh, Scotland: Scottish Witch Hunts
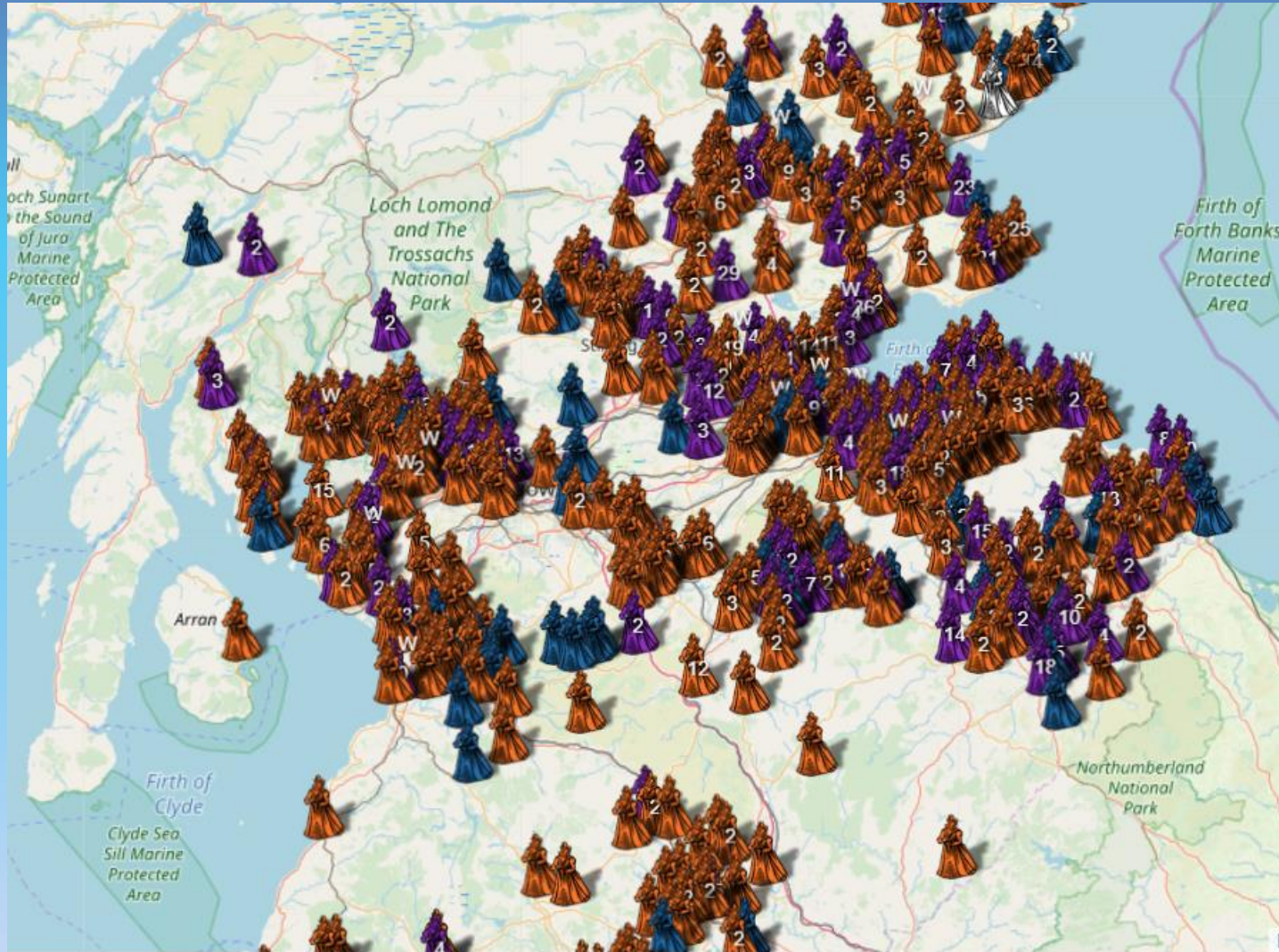
4. The Prado: Multiple timelines

https://tinyurl.com/yb49xguq
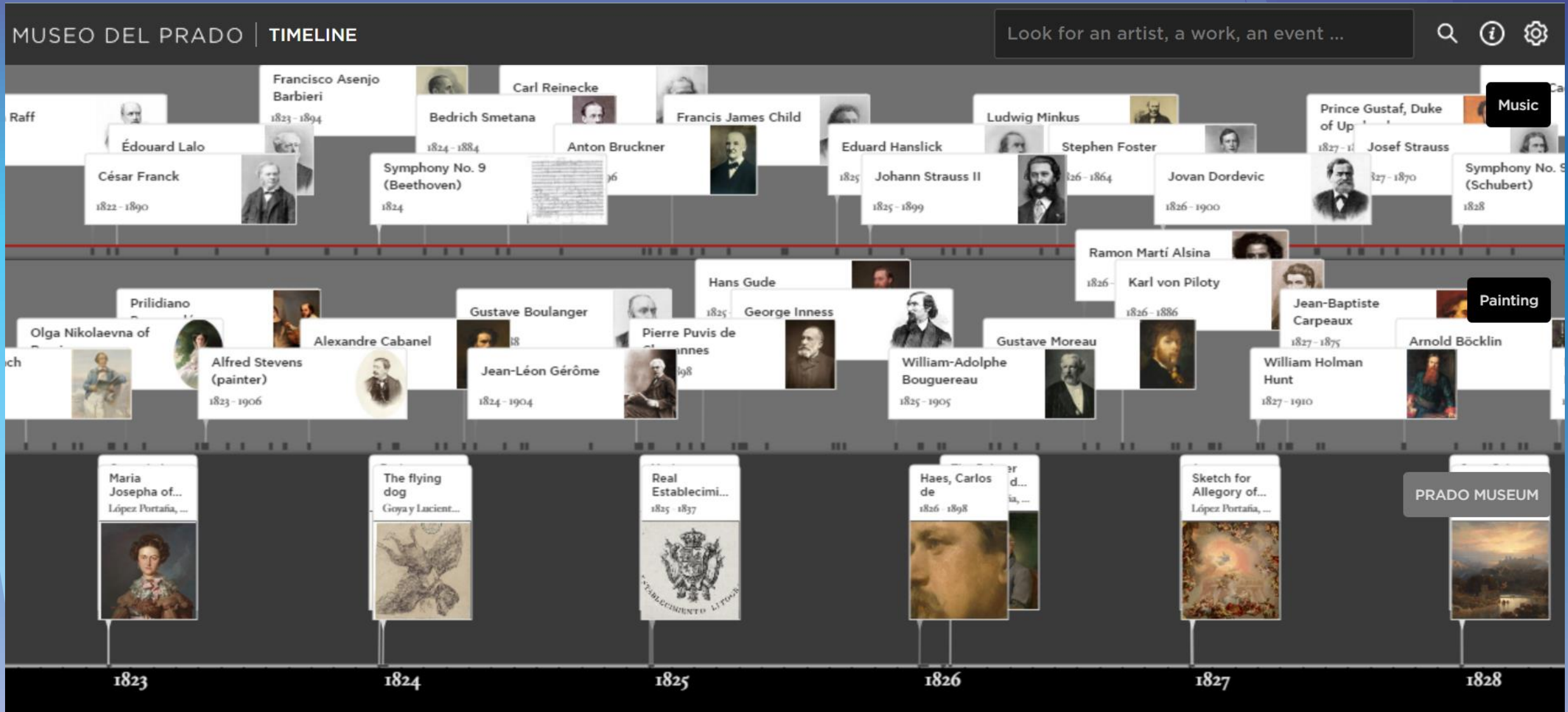
5A. Tel Aviv University, Israel

In-class exe to explore relationships

"From Web 2.0 to Web 3.0, from Wikipedia to Wikidata" Elective course at TAU, Class of 2018-2019
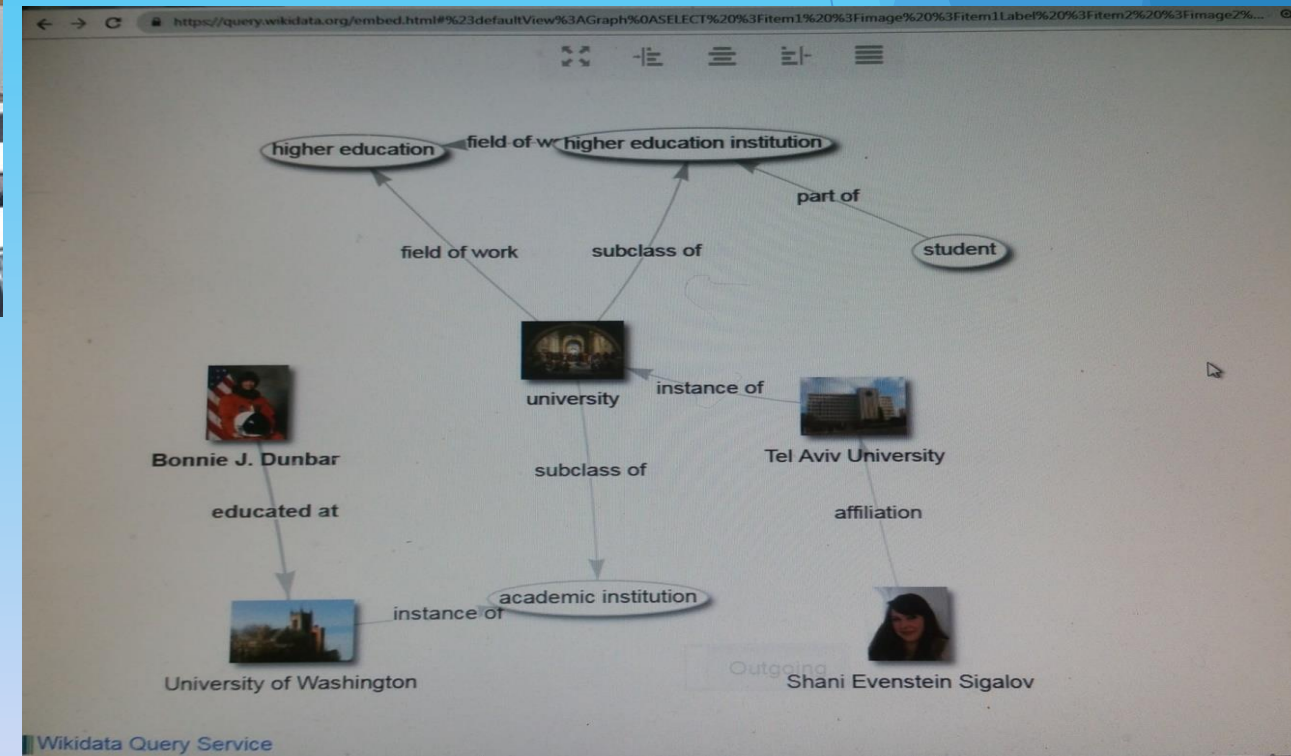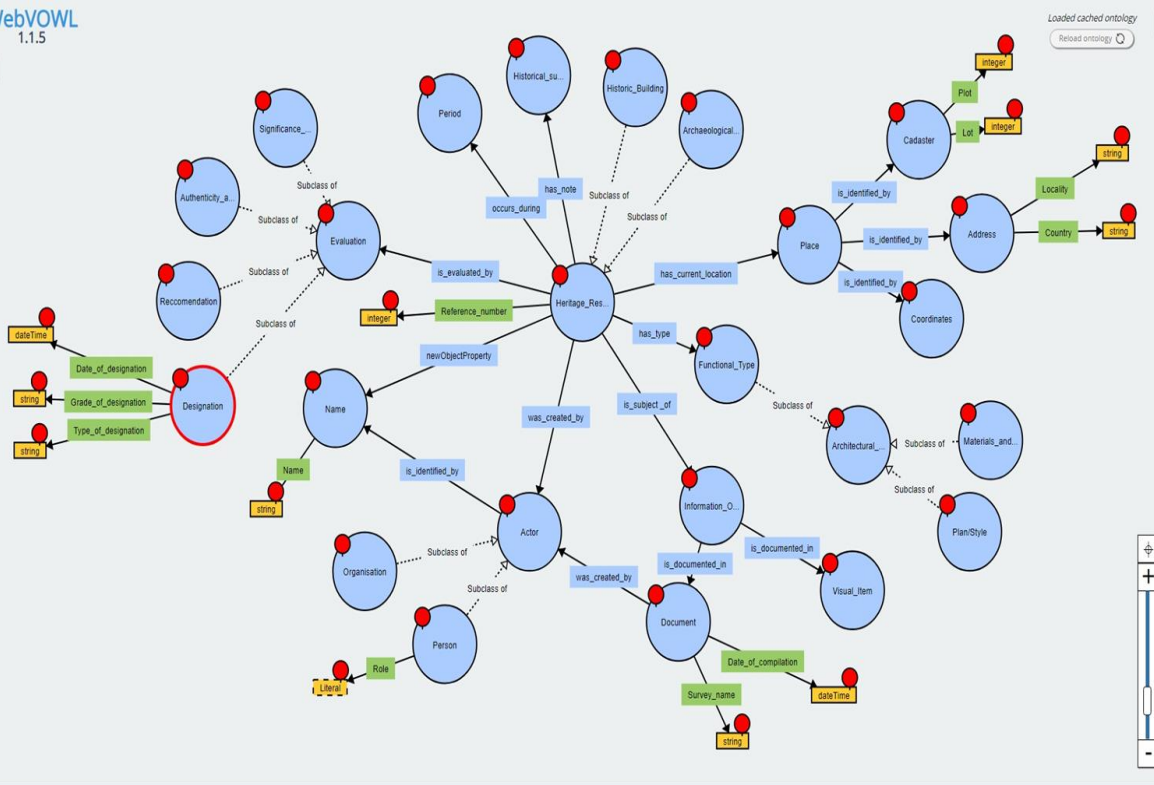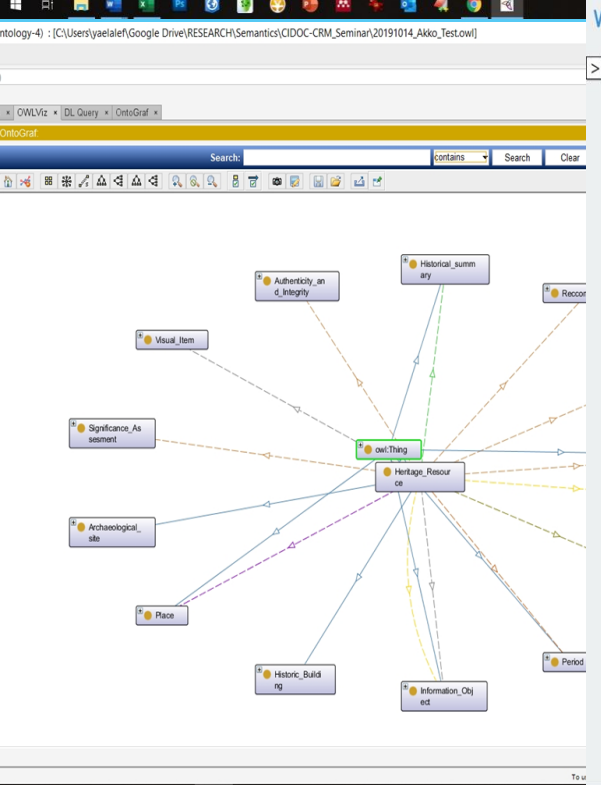
5B. The Bar Ilan University, Israel

- **Focus on Alternative Assessment - aims to teach:**
  - **Semantic Web and Open Linked Data**

- **The Project:**
  - Information System program at Bar Ilan
  - Semantic Web Course
  - Practical with social impact
  - **A collaboration with the Israel Antiquities Authority**

מבט כללי | **מיקום**
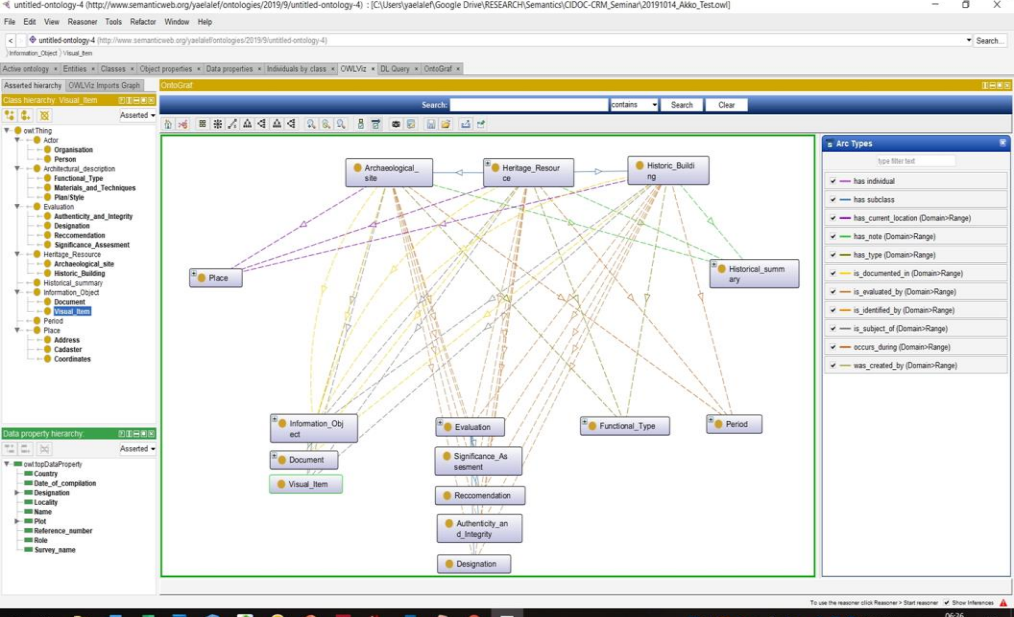
מיקום	גוש 18011	חלקה 130
שימושים	כנסיה?	היום כנסיה/מגורים
בעלות		
מס' קומות	שני מפלסים (אגף מערבי של מפלס ראשון – מגורים, שאר המבנה – כנסיה)	
כניסה	מצפון, לחצר-מבואת כניסה וממנה לאגפי המבנה השונים. מדרום, למפלס שני (אולם התפילה)	
מדרגות	חיצוניות, מאבן, מחצר מבואת הכניסה למפלס שני	

מבט כללי | **מיקום**

מיקום	גוש 18011	חלקה 9899	תאור כללי
שימושים	היסטורי חאן, מגורים, מחסנים	היום מגורים, מחסנים	
בעלות	עמידר/חלי"פ		
מס' קומות	שנים-שלושה מפלסים		
כניסה	שלוש כניסות מקוריות מחצר החאן למפלס ראשון , כניסה למפלס שני , כניסה מקורית למפלסים העליונים מן הסמטא –דרך חלקה 99		
מדרגות	חדר מדרגות אבן המוביל למבנה נמצא בחלקה 99		
חצר	חצר החאן, חצר פנימית משותפת עם חלקה 98		
יחס לסביבה	האגף הדרומי של החאן, גבול בין שני מבנים		
אדריכלי	שני סוגים: חאן, בית חלל מרכזי קלאסי		
מבנה הגג	גג רעפים - גג שטוח כיפה		
סוג התכנית	שני סוגים: חאן, בית חלל מרכזי קלאסי		
מבנה הגג	גג רעפים - גג שטוח כיפה		
חזיתות	שלוש חזיתות גלויות במפלסים שונים, משקפות את סוגי התכנית השונים		
אלמנטים ארכיטקטוניים	דלתות חלונות מרפסות תקרות ריצוף אחר		
מצב השתמרות	תכניות וחזיתות שומרות על אופיין. מצב פיזי מצב בהידרדרות		
נתונים היסטוריים וארכיאולוגיים	חלק מהחאן, מכיל שרידים צלבניים – עפ"י סקרי רשות העתיקות		
חריגות בנייה	חריגת בניה במפלס שלישי		
תוספת / INFILL	מפלס ראשון מפלס שני מפלס שלישי מפלס רב		
הערכת המבנה	בחלקה ארמון בית חלל מרכזי בעל ערך אדריכלי והיסטורי גבוהים		
הערות	ראה סקרי רשות העתיקות בנושא חאן א-שונא		

דירוג המבנה	מבנה ציבורי	א	ב	ג

רשות העתיקות תחום שימור	מבנה 11/9899	עכו העתיקה נספח שימור

6. Reconcile Data from Heterogeneous Sources:
School of Journalism, Faculdade Cásper Líbero, Brazil

António Teodoro de Castro | 12 de abril de 1945 | data desconhecida (entre 25 de dezembro de 1973 e 27 de fevereiro de 1974) | estudante | Partido Comunista do Brasil | [180] [181] [182] [183]

2 different dates of death

4 references

date of disappearance	unknown value •••		edit
	earliest date	25 December 1973 •••	
	object has role	forced disappearance •••	
	location	Brejo Grande do Araguaia •••	

▼ 2 references

copy

reference URL	http://memoriasdaditadura.org.br/memorial/antonio-teodoro-de-castro/
retrieved	28 January 2020

copy

Wikimedia import URL	https://commons.wikimedia.org/wiki/File:Relat%C3%B3rio_da_CNV_3.pdf
page(s)	1553
retrieved	17 January 2020

7. Auto-Generating Content in Wikis:
Using WD to create a Wikibook from GLAM Collection

8. Creating New Digital Objects:
Mapping monuments in São Paulo

https://w.wiki/3EC
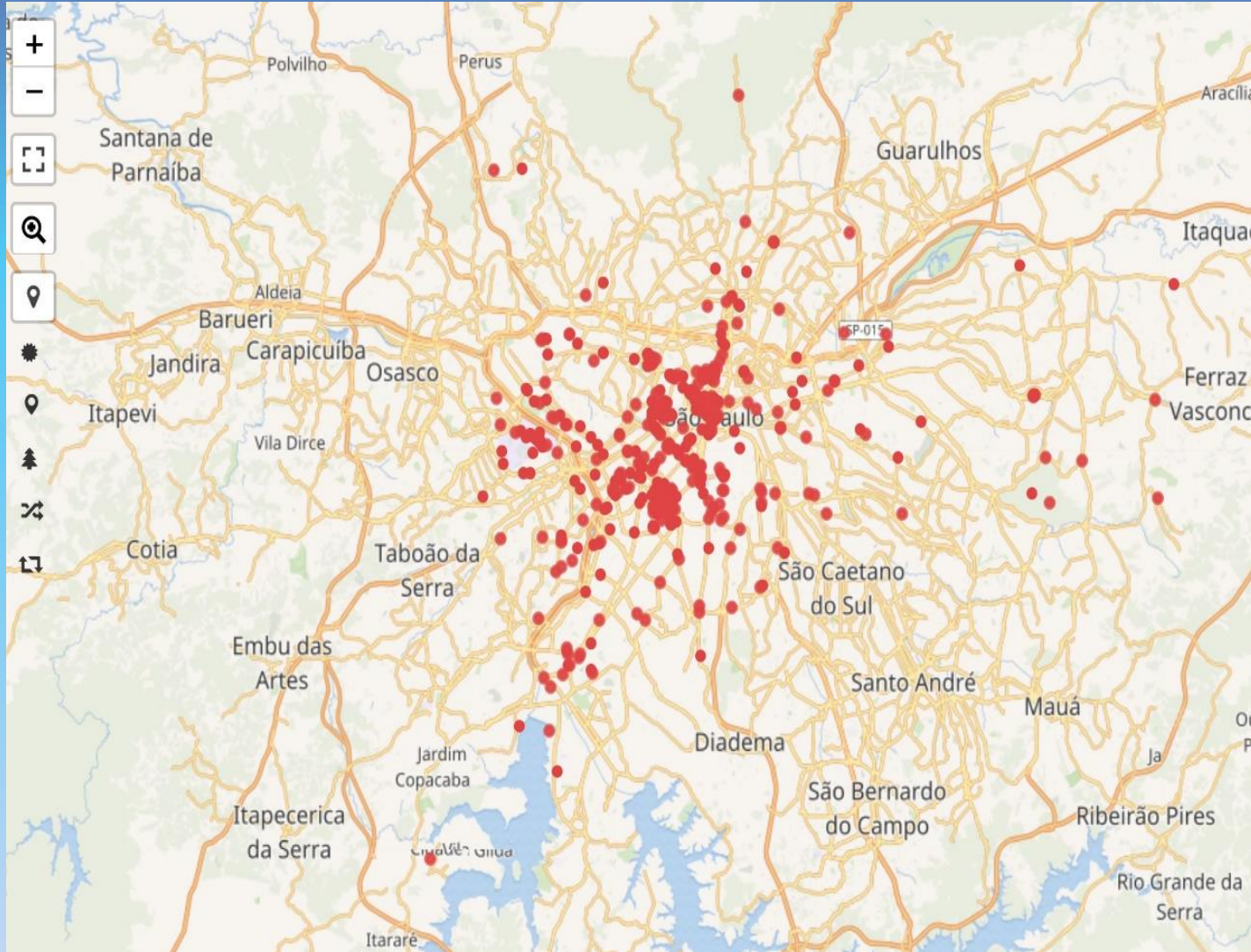
9. Digitally Recreating Lost Museum Artifacts

Emperor Pedro II stands in front of his burning palace—and the site of the National Museum of Brazil..
Felipe Milanez, CC-BY-SA 4.0

"Data Archaeology"

#	Item	Label		Description		... instance of	collection	part of	image
1	Ring bracelets Q56810425	en	Ring bracelets	en	object in the Polícia da Corte Collection at the National Museum (Rio de Janeiro)	item of collection or exhibition	Coleção Polícia da Corte	Africans in Brazil	Argolas de metal (pulseiras) MN 01.jpg
		pt	Pulseiras de argola	pt	objeto da Coleção Polícia da Corte do Museu Nacional (Rio de Janeiro)	bracelet			
		pt-br	Pulseiras de argola	pt-br	objeto da Coleção Polícia da Corte do Museu Nacional (Rio de Janeiro)				
				fr	objet dans la Collection Polícia da Corte du Museu Nacional (Brésil)				
2	Xangô figure Q56810426	en	Xangô figure	en	object in the Polícia da Corte Collection at the National Museum (Rio de Janeiro)	item of collection or exhibition	Coleção Polícia da Corte	Africans in Brazil	Representação de Xangô MN 03.jpg
		pt	Representação de Xangô	pt	objeto da Coleção Polícia da Corte do Museu Nacional (Rio de Janeiro)	oshe			
		pt-br	Representação de Xangô	pt-br	objeto da Coleção Polícia da Corte do Museu Nacional (Rio de Janeiro)				
				fr	objet dans la Collection Polícia da Corte du Museu Nacional (Brésil)				
3	Arrow Q56810427	en	Arrow	en	object in the Polícia da Corte Collection at the National Museum (Rio de Janeiro)	item of collection or exhibition	Coleção Polícia da Corte	Africans in Brazil	Flecha de Oxossi MN 03.jpg
		pt	Flecha	pt	objeto da Coleção Polícia da Corte do Museu Nacional (Rio de Janeiro)	Ofá			
		pt-br	Flecha	pt-br	objeto da Coleção Polícia da Corte do Museu Nacional (Rio de Janeiro)				

The Afro-Brazilian Room

Preliminary Conclusions

Main Uses 1

1) **Exploring a database visually in an engaging way**
   Cases: Libraries at Oxford, University of Edinburgh, Met

2) **Salvaging unused databases**
   Cases: University of Edinburgh

3) **Enriching an existing database or collection**
   Cases: University of Edinburgh, Met - depicts game

4) **Exposing relationships and connections**
   Case: Met – dress example

5) **Custom-tailoring queries on a large scale**
   Case: Met –InteGraality

Main Uses 2

6) Teaching data literacy or related topics
   Cases: Tel Aviv University, University of Edinburgh

7) Fighting fake news by reconciling contradicting sources
   Cases: Brazil death's during dictatorship

8) Autogenerating content
   Cases: Brazil – WikiBooks; Met – Mbabel

9) Creating new digital objects
   Cases: University of Edinburgh, Met, Brazil

10) Digitally reconstructing lost physical item - Data archeology
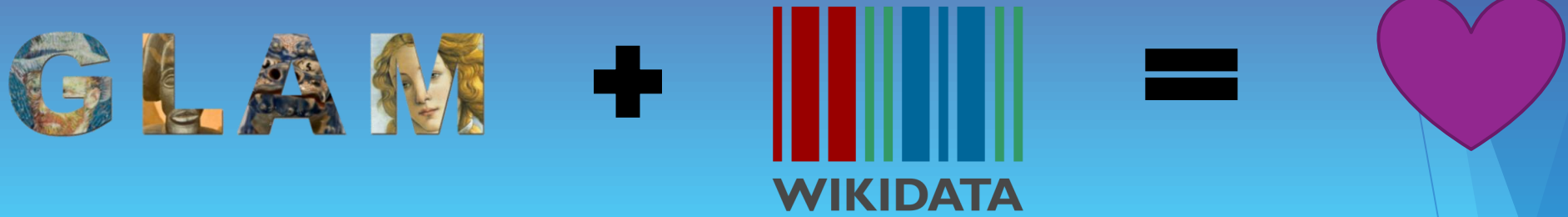   Case: Brazil's Burnt National Museum

Benefits

- **Specific answers to questions**

- **Data visualization!**

- **Tell stories with data**

- **Critical thinking and analysis – curation** and **extraction**

Better Data Literacy

Webinar's Focus:

GLAM + WIKIDATA = ♥

This presentation:

GLAM + 🎓 + WIKIDATA = ♥ ♥

This is just the beginning

The challenges are learning opportunities

Let's discuss!

Thank you for participating!

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Lecturer: for-credit courses focused on Wikipedia and Wikidata

Free Knowledge Advocate and Openness Expert

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Former Chairperson, WikiProject Medicine Foundation.

Currently a member of the Wikimedia Foundation's Board of Trustees.

Chairperson, The Hebrew Literature Digitization Society, supports Project Ben-Yehuda (similar to Project Gutenberg).