3rd Annual BIBFRAME Workshop in Europe
Stockholm
17th September 2019

The Relevance of BIBFRAME Beyond our Walls

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European BIBFRAME Workshop

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Independent Consultant, Evangelist & Founder

40+ Years - Computing
29+ Years – Cultural Heritage technology
18+ Years – Semantic Web & Linked Data

W3C Community Groups:

- Bibframe2Schema (Chair) – Standardised conversion path(s)
- Schema Bib Extend (Chair) - Bibliographic data
- Schema Architypes (Chair) - Archives
- Financial Industry Business Ontology – Financial schema.org
- Tourism Structured Web Data (Co-Chair)
- Schema Course Extension
- Schema IoT Community
- Educational & Occupational Credentials in Schema.org

Works With:

- **Google** – Schema.org vocabulary, site, extensions. documentation and community
- **OCLC** – Global library cooperative
- **FIBO** – Financial Industry Business Ontology Group
- Various Clients – Implementing/understanding Schema.org:
  British Library — Stanford University — Europeana — NLB Singapore

richard.wallis@dataliberate.com — @rjw

2018 Workshop
?
QUIT
Who Wants to be a Linked Data Library
50:50
15 $1 MILLION
14 $500,000
13 $250,000
12 $125,000
11 $64,000
10 $32,000
9 $16,000
8 $8,000
7 $4,000
6 $2,000
5 $1,000
4 $500
3 $300
2 $200
1 $100
What are my Library Linked Data Options?
A: BIBFRAME 2.0
B: Schema.org
C: Linky MARC
D: Do nothing
ta Liberate

Inside the walls

BIBFRAME (2.0) is a Good Thing!

- The Only Linked Data vocabulary for bib data ? - No
- Best Linked Data vocabulary for bib data ? - Probably not
- Universally loved by librarians ? - No!
- Powering lots of systems ? - No
- Satisfies most bibliographic LD use cases ? - Yes
- Recognised / supported by systems developers ? - By some
- A de facto international standard ? - Becoming so
- Supported by a wide consensus ? - Yes -ish

BIBFRAME (2.0) is a Good Thing!

- Most System Developers would admit as a minimum:
  - Must be able to import BIBFRAME
  - Must be able to export BIBFRAME
  - = Must be able to handle links in MARC
- MARC to BIBFRAME Conversion Specs
- MARC to BIBFRAME Conversion Scripts
- Enables entification

The most important step on the road to Linked Data

(Regardless of vocabulary)

The
MARC Gateway
Converts Enter YE
Here
Most
Implementers
will start
with a MARC
based dataset
to convert
Temporary
Exit ?

BIBFRAME/RDA/MARC - Baggage

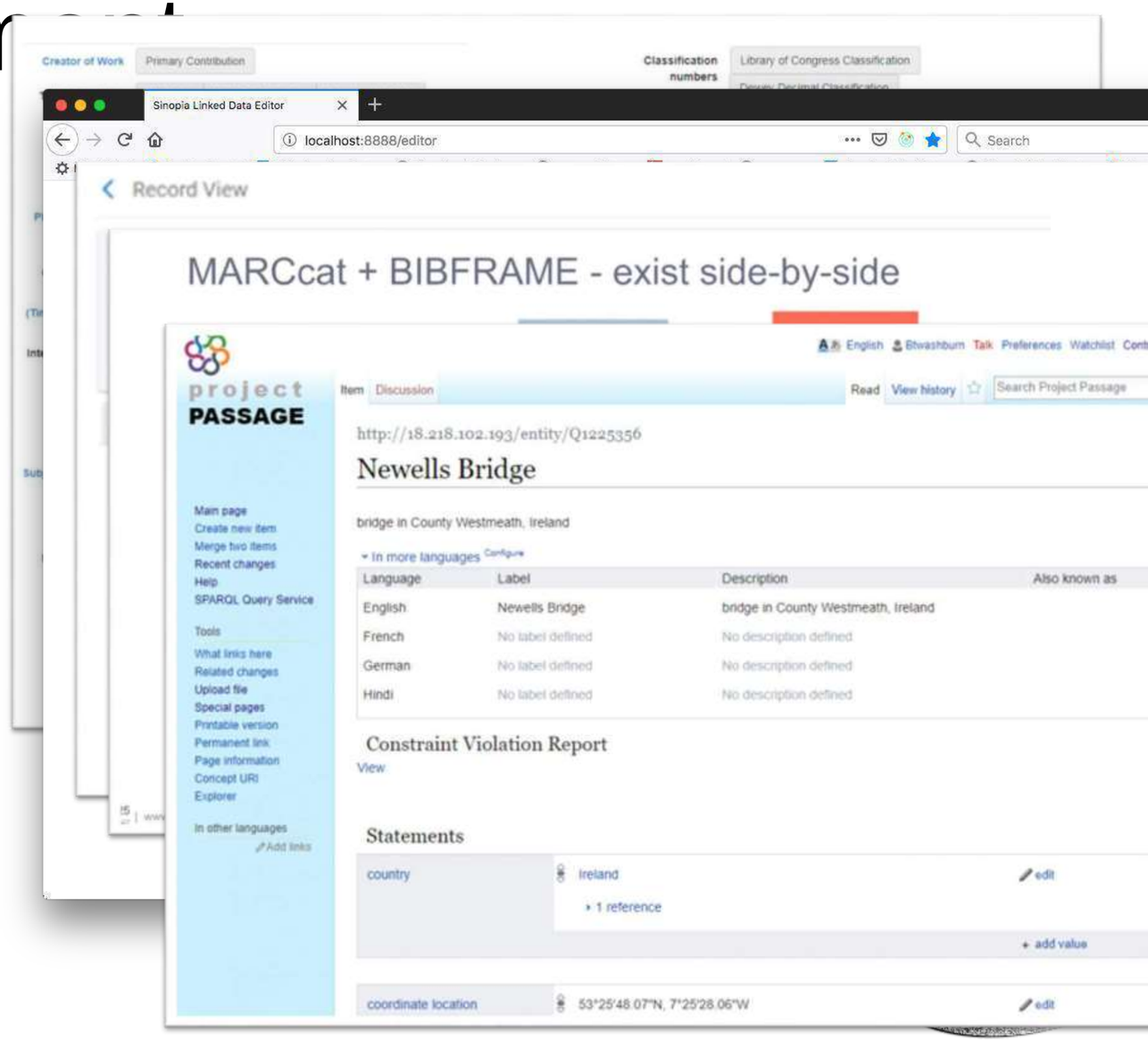
- Driven by MARC conversion needs
  - `bflc:name00MarcKey`
  - `bflc:title40MatchKey`
- The **Winstance** problem
  - Most record conversions currently result in a linked pair of entities
  - Work & Instance
  - For the benefit gained might as well just have a single Winstance!
- When is a Work a Work or a Hub/SuperWork or an Instance of one?

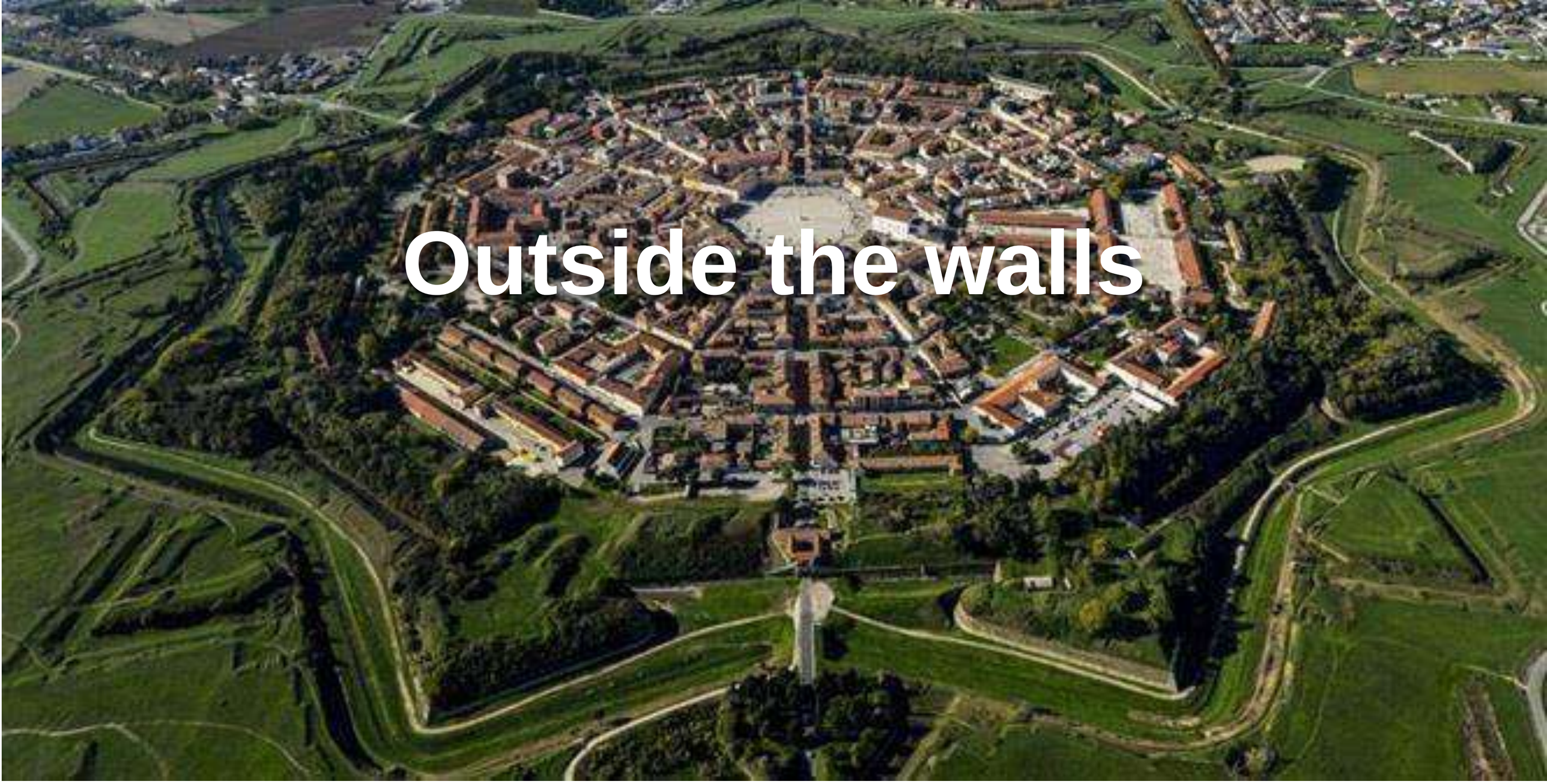
Working Inside the walls

Entity Management

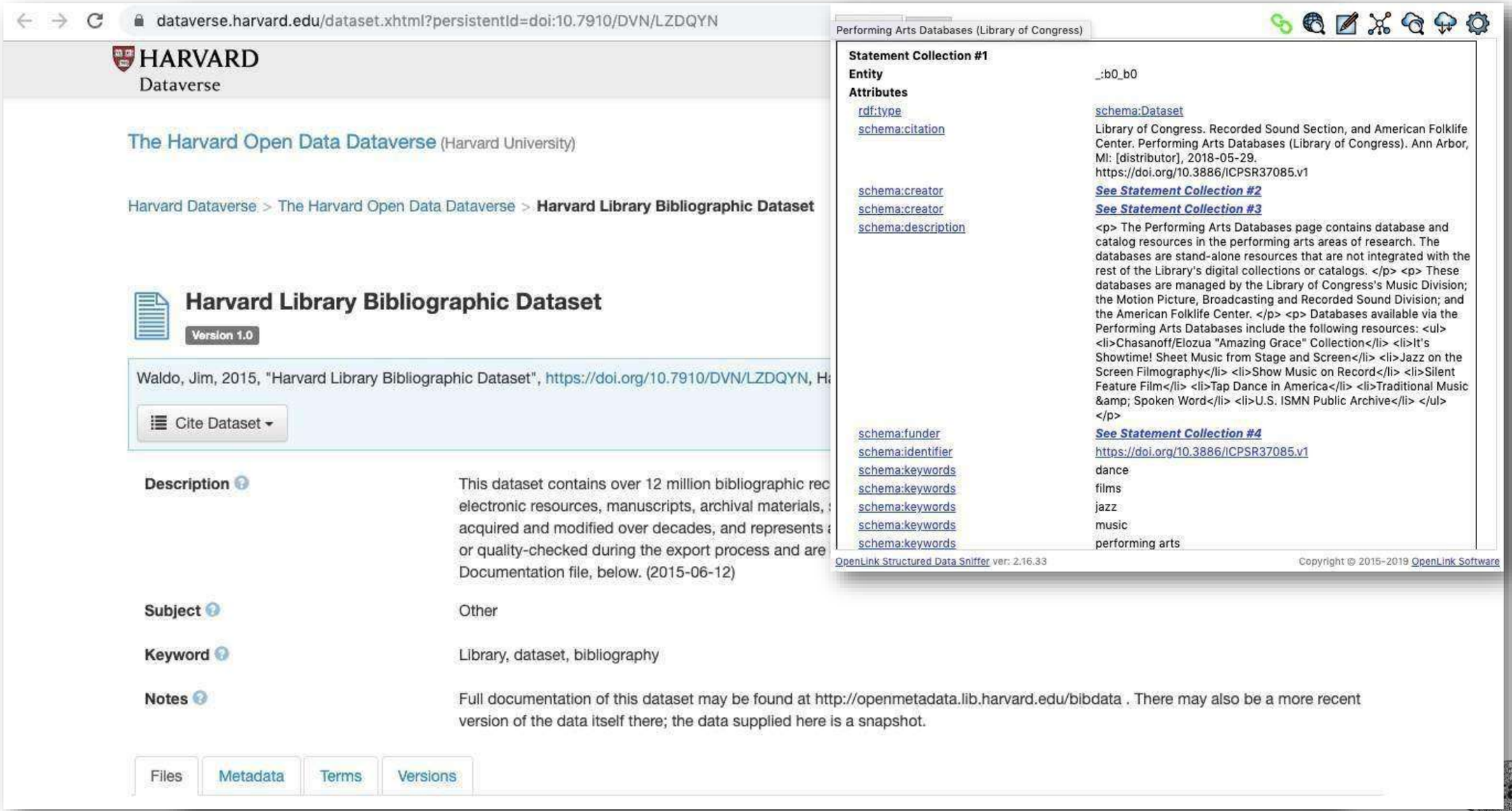
- LC BIBFRAME Editor
- SINOPIA Editor
- Alma BIBFRAME View
- Innovative Interfaces Inspire
- Folio (future)
- OCLC Project Passage

  (Entity management & reconciliation)

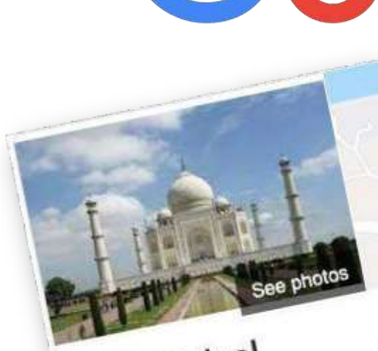



Outside the walls

Structured Data On The Web



Google Knowledge Graph



Taj Mahal

Website Directions Save

4.6 ★★★★½ 160,080 Google reviews

Mausoleum in Agra, India

The Taj Mahal is an ivory-white marble mausoleum on the south bank of the Yamuna river in the Indian city of Agra. It was commissioned in 1632 by the Mughal emperor, Shah Jahan, to house the tomb of his favourite wife, Mumtaz Mahal. It also houses the tomb of Shah Jahan, the builder. Wikipedia

Address: Dharmapuri, Forest Colony, Tajganj, Agra, Uttar Pradesh 282001, India

Construction started: 1631

Height: 73 m

Opened: 1648

Architects: Ustad Ahmad Lahouri, Ustad Isa

Did you know: 28 different types of stones were used to make the Taj Mahal. othersopinion.com

Suggest an edit

Know this place? Answer quick questions

According to eHow.com, the majority of positions for **SEO** specialists require the following: Bachelor's degree in business, marketing, communications or information technology. One to three years in online marketing. Knowledge of HTML, CSS and various programming languages.

How to Become a Search Engine Optimization (SEO) Specialist | ...

https://www.marketingcareeredu.org › search-engine-optimization-specialist

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Vue Cinema Manchester - Printworks

4.3 ★★★★½ (3,445) · Cinema

Manchester

Chain cinema showing the latest releases

ODEON Manchester Great Northern

4.3 ★★★★½ (2,355) · Cinema

Manchester

Chain cinema showing the latest releases

Cineworld Cinema Didsbury

4.3 ★★★★½ (2,428) · Cinema

Cinema chain with a mainstream programme

More places

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...o.uk › Recipes › Dish type › Side dish › Yorkshire pudding

...★★★½ Rating: 4.7 - 123 votes - 35 mins

...is Blackburn is reigning world **Yorkshire Pudding** champion. Star of ITV ...

...ous Food, ITV's Country House Sunday and has appeared on BB... Food

...nt Everest / Elevation

8,848 m

Summiting the world's highest mountain is a lifelong goal for many mountaineers. But how high is Mount Everest? The first official height of Everest was established by Nepal in 1955, measuring an impressive **8,848m** (29,029 ft) high.

How High is Mount Everest? - Global Adventure Challenges

https://www.globaladventurechallenges.com › journal › how-high-mount-ev...

People also search for

K2 8,611 m

Mount Kilimanjaro 5,895 m

Denali 6,190 m

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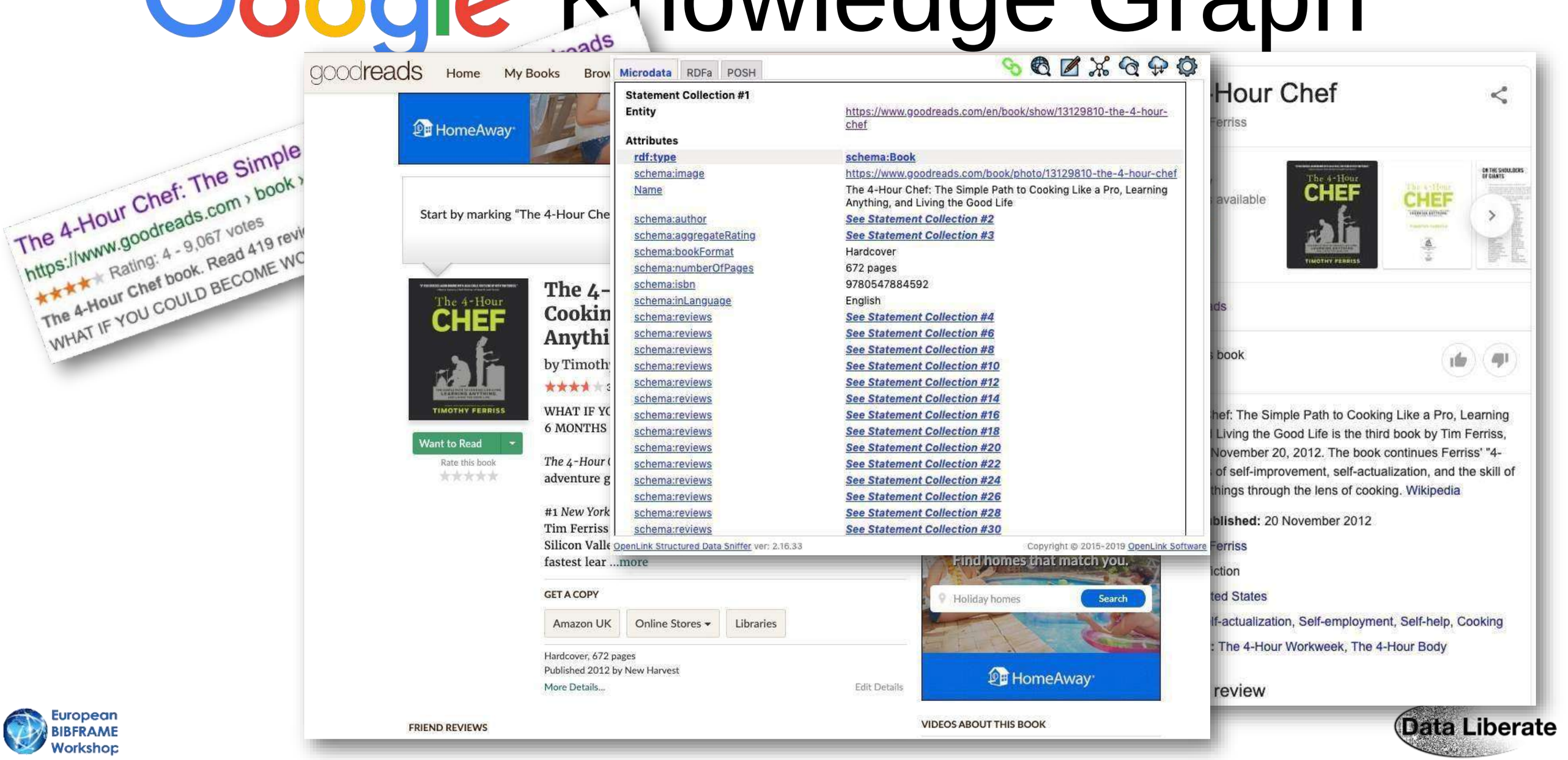
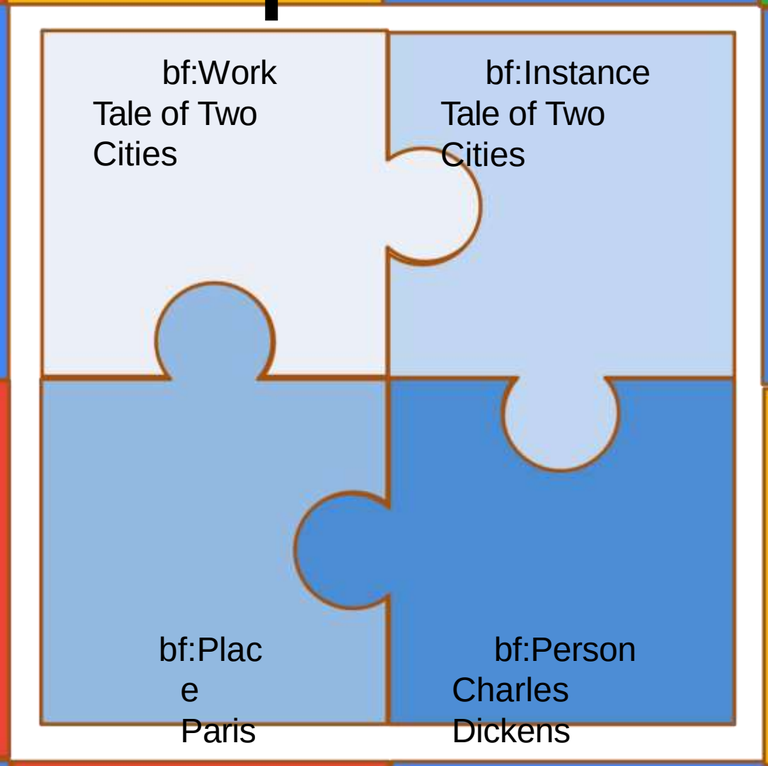
Google Knowledge Graph



Knowledge Graph?

How do I get my stuff into it?



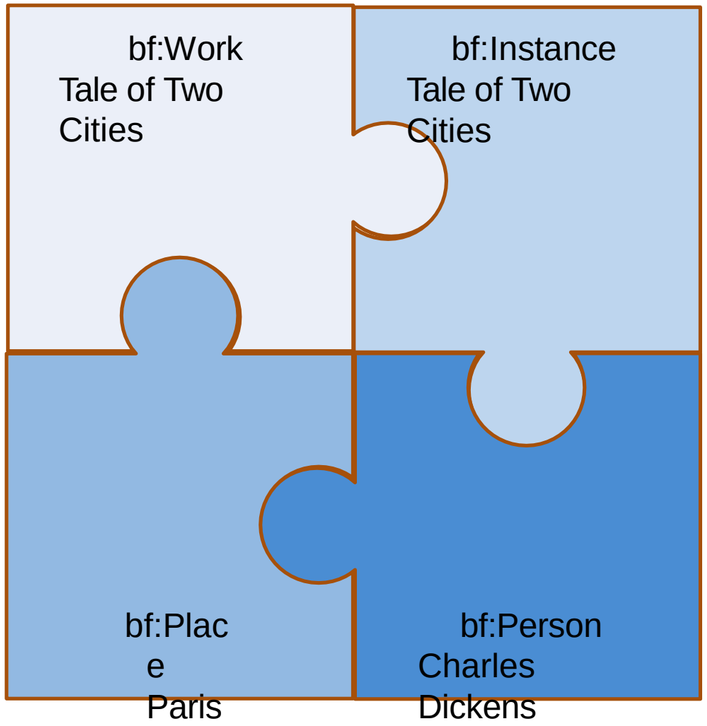
A basic graph of entities (BIBFRAME)

How Relevant is BIBFRAME Beyond our Walls ?

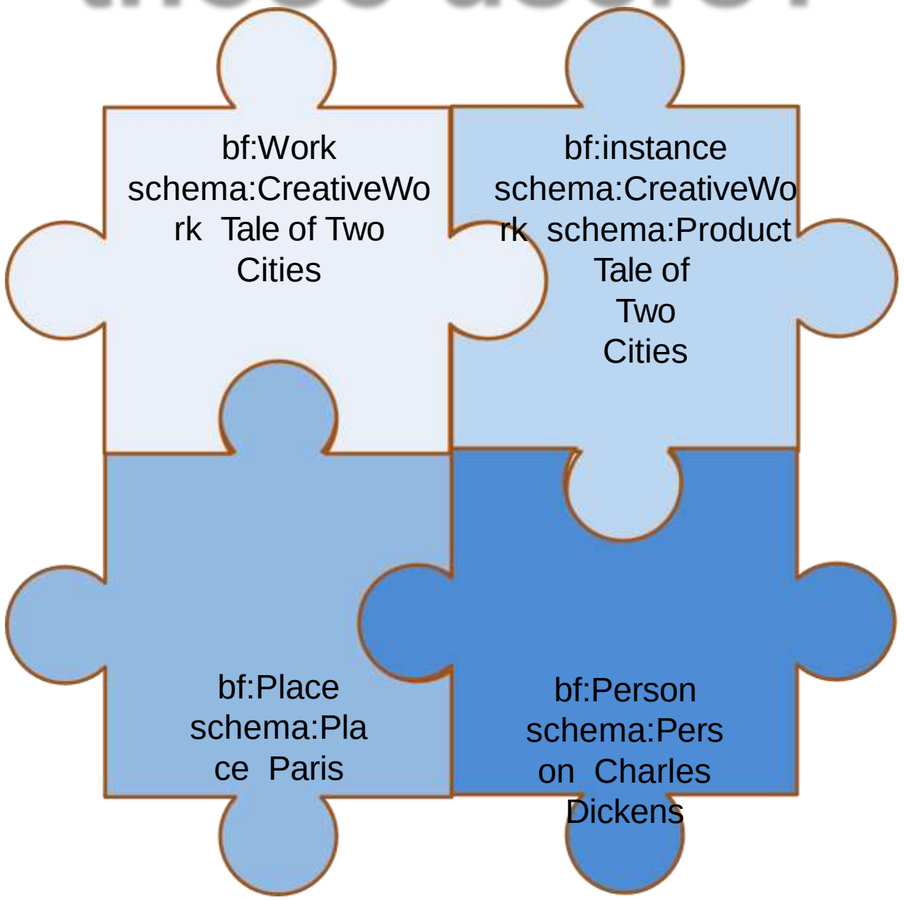
BIBFRAME is Not Relevant
Beyond our Walls*
*Of Cultural heritage

Google
Bing
Where are our users?
… mostly out of our reach …
YAHOO!
alexa

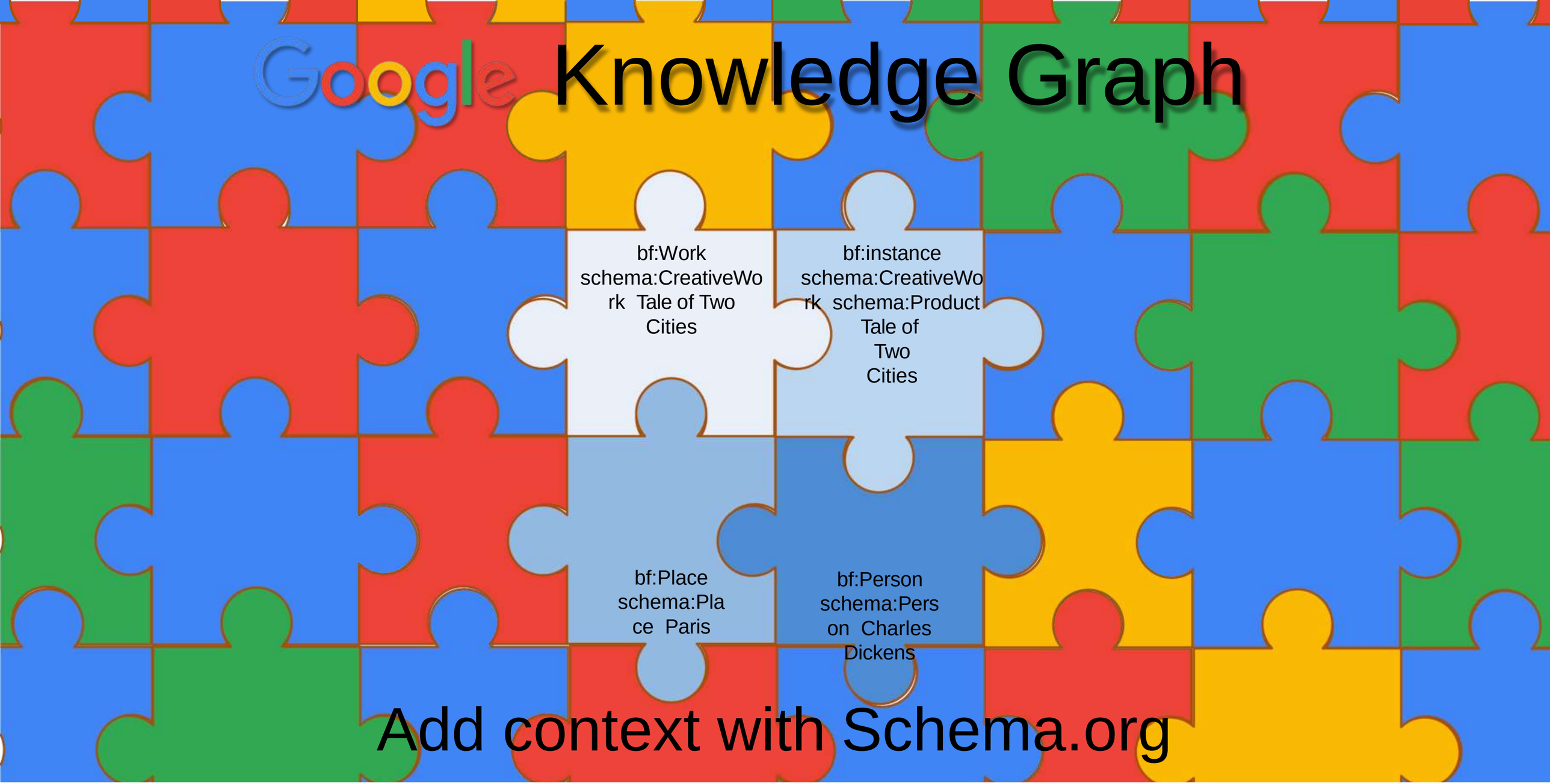
How to reach those users?



How to reach those users?



Add Schema.org


Google
Knowledge Graph
bf:Work
schema:CreativeWork Tale of Two Cities
bf:instance
schema:CreativeWork schema:Product Tale of Two Cities
bf:Place
schema:Place Paris
bf:Person
schema:Person Charles Dickens
Add context with Schema.org

Google Knowledge Graph

Improving by Reconciliation

Automatic discovery of new entities using graph reconciliation
Inventors: Oksana Yakhnenko and Norases Vesdapunt
Assignee: GOOGLE LLC
US Patent: 10,331,706
Granted: June 25, 2019
Filed: October 4, 2017

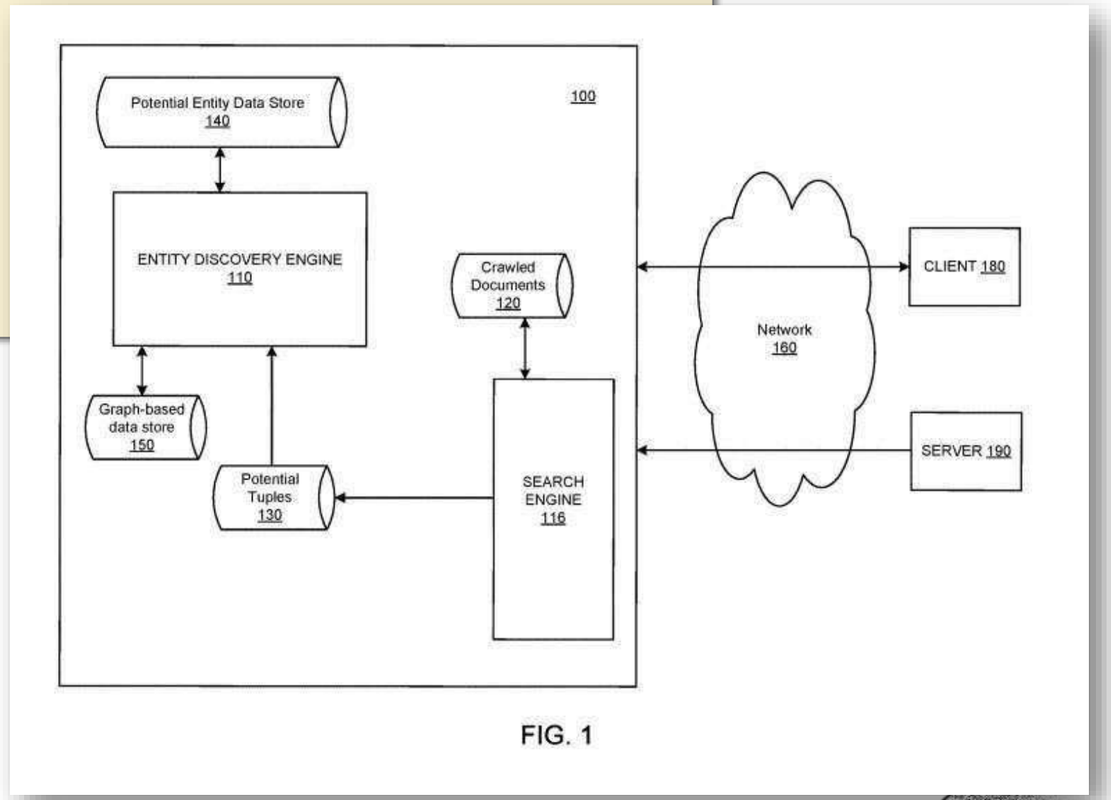
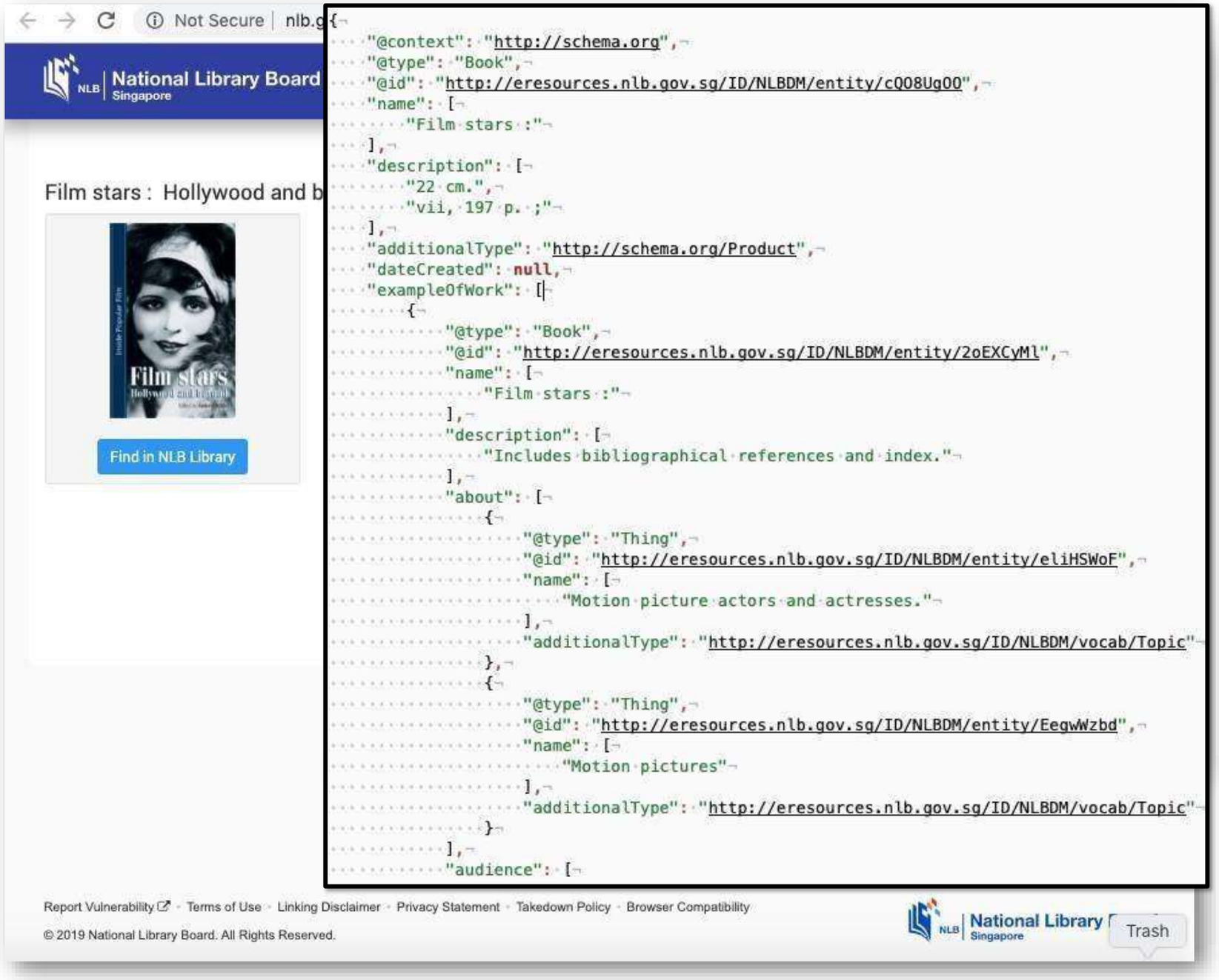
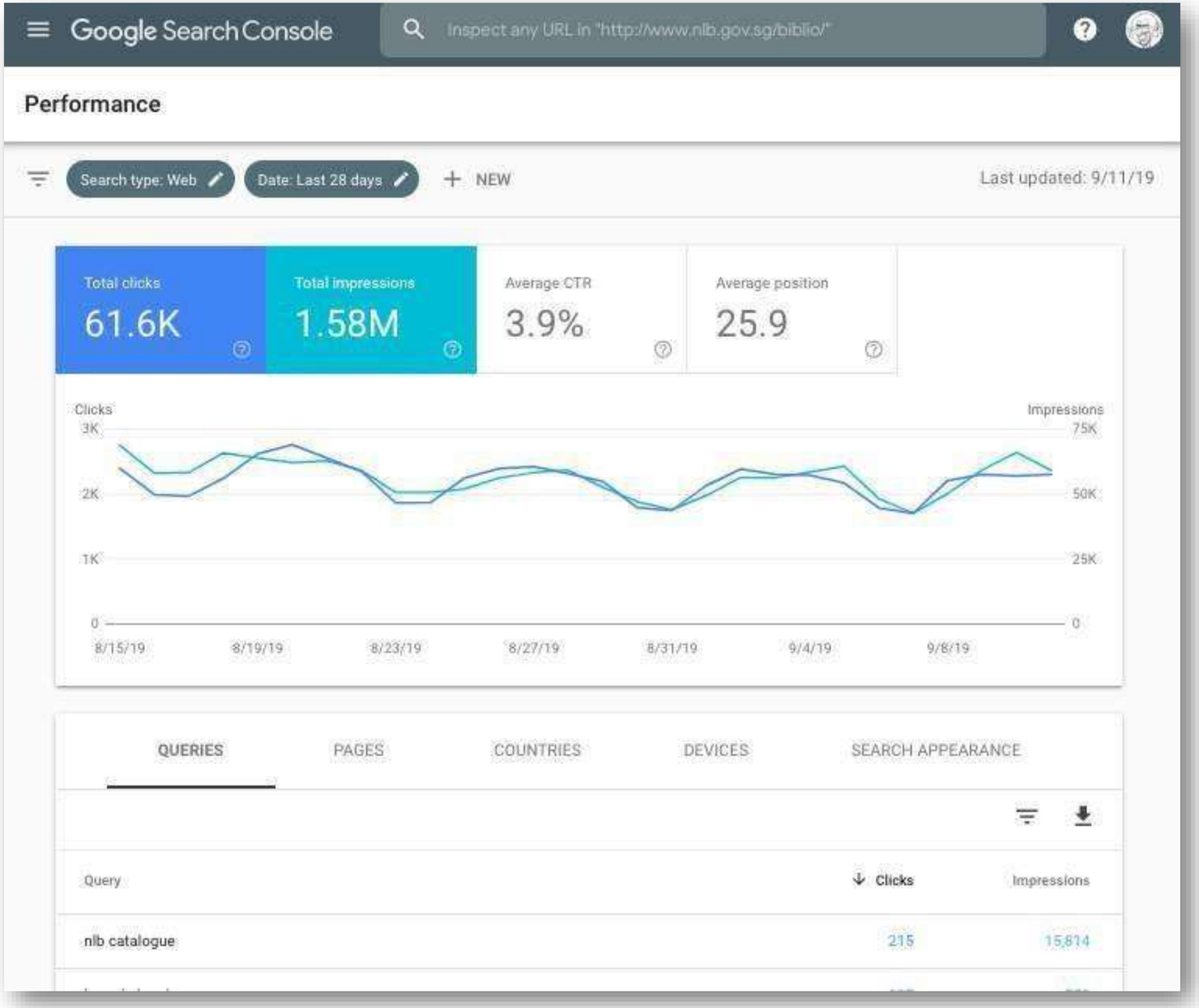


FIG. 1

Structured Data On The Web Today

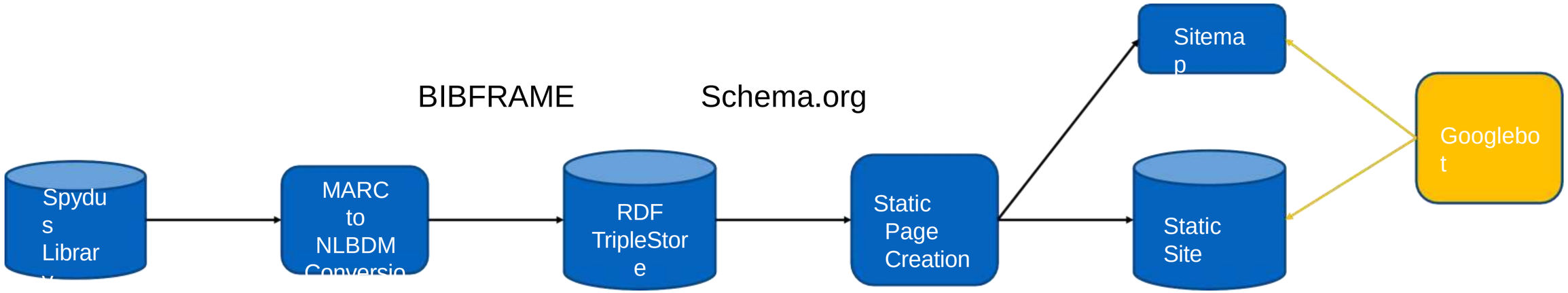


Structured Data On The Web Today

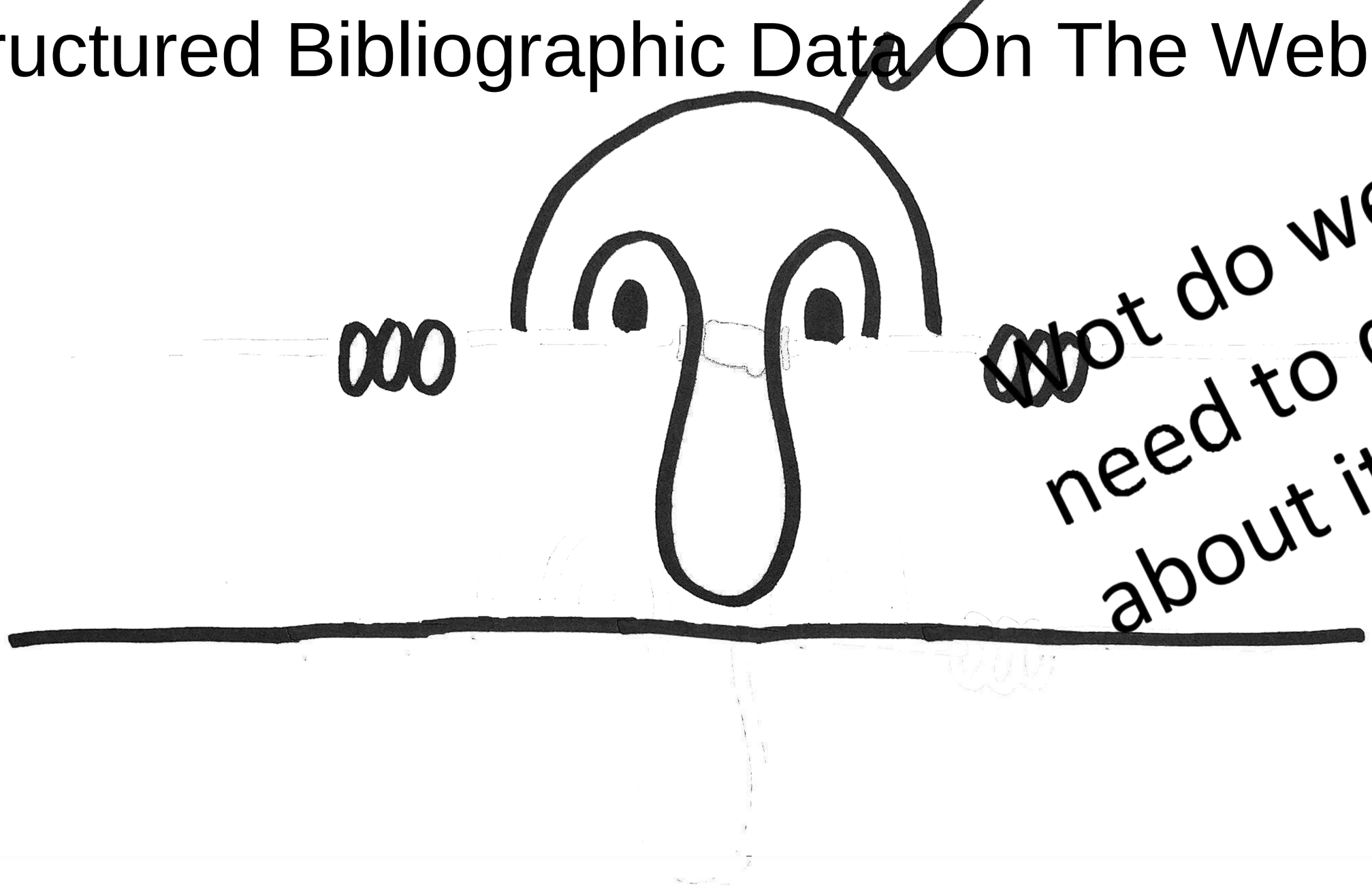


Structured Data On The Web Today

NLB Singapore Schematic

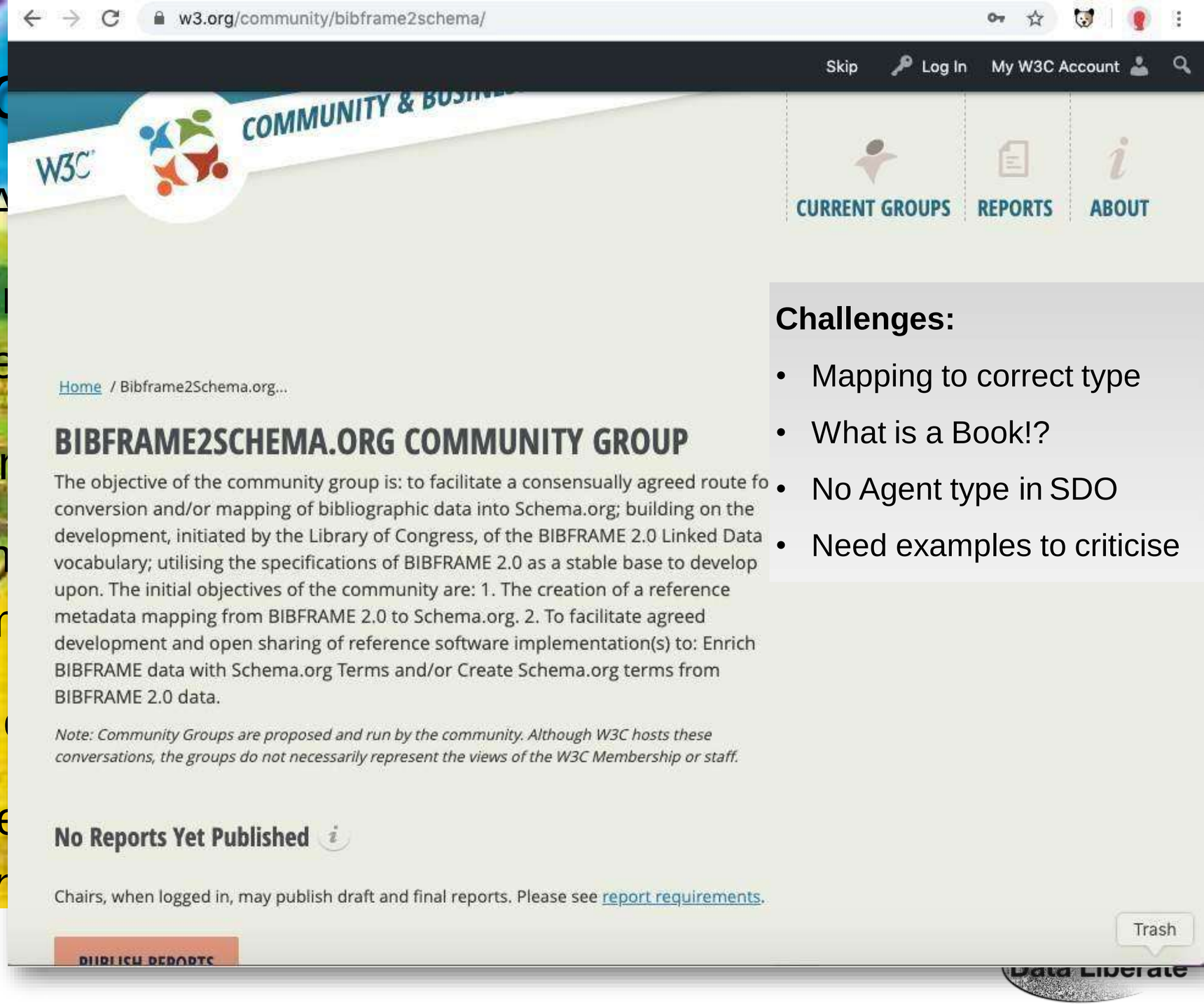


Structured Bibliographic Data On The Web Today



Embark o

- Keep refining BIBFRA
- Solve the Work Recor
  - In a consistent repe
- Promote reconciliation
- BIBFRAME to Schem
  - BIBFRAME2Schem
- Build working exampl
- Schema.org is comple
  - *It will get our stuff in*



Challenges:

- Mapping to correct type
- What is a Book!?
- No Agent type in SDO
- Need examples to criticise

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BIBFRAME‘s Lack of Relevance Beyond our Walls

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