

Wikidata Infrastructure





Wikidata:
the knowledge base
anyone can edit!



Like Wikipedia. But
machine-readable.



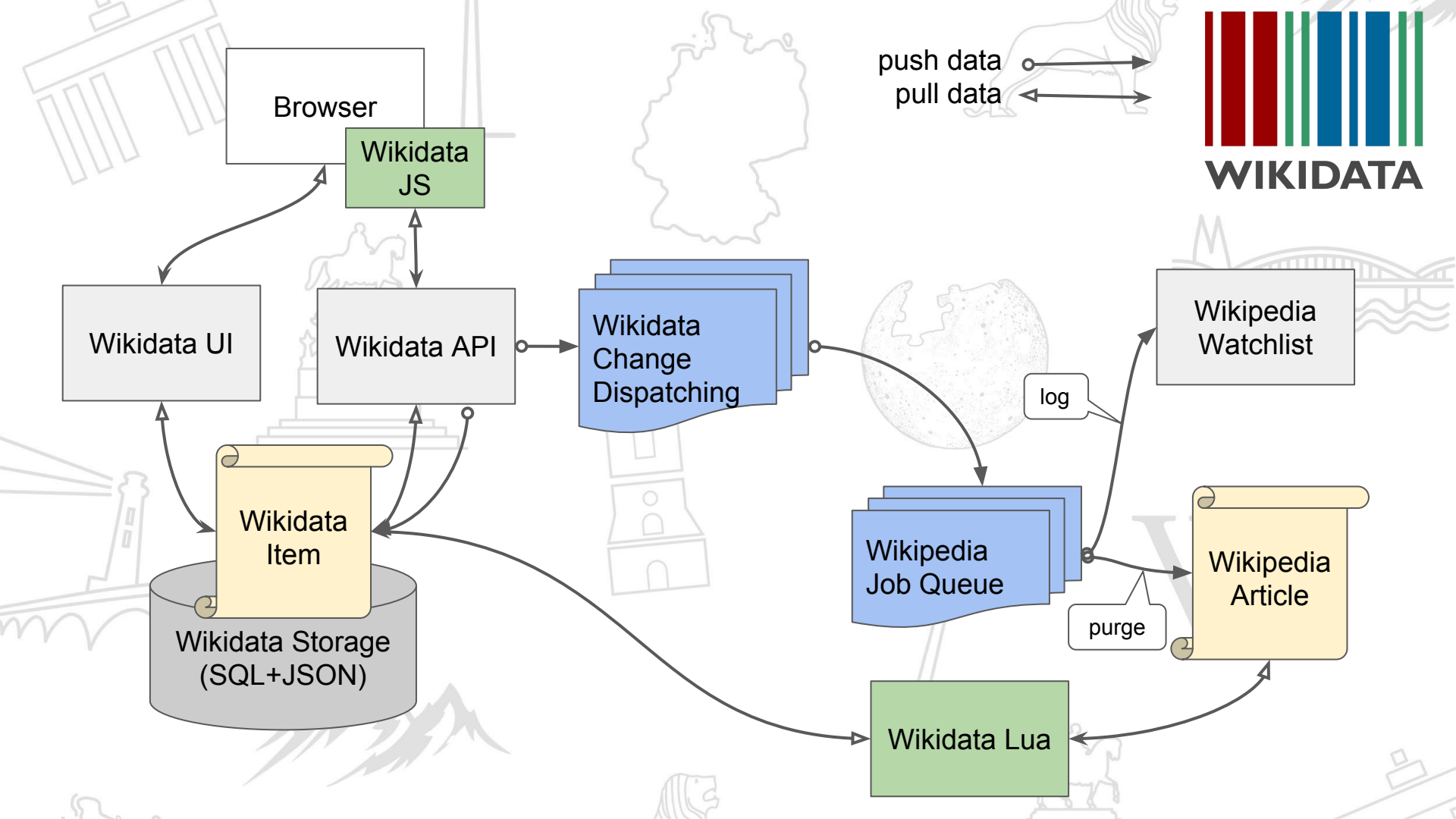
Don't say semantic!



What happens when
you edit Wikidata?
What does it have to
do with Wikipedia?



- **User visit a Wikipedia page**
...and sees bad info coming from Wikidata.
- **User visits Wikidata item page**
...and edits the bad statement
...using API calls for parsing and formatting.
- **Wikidata processes edit**
...by applying validation
...storing the new version
...and sending out notifications.
- **Wikipedia receives the notification**
...and re-renders the page
...using Lua to access the data Item.



Douglas Adams (Q42)

English writer and humorist

Douglas Noël Adams | Douglas Noel Adams | Douglas N. Adams | DNA

 [edit](#)

▼ In more languages

Language	Label	Description	Also known as
English	Douglas Adams	English writer and humorist	Douglas Noël Adams Douglas Noel Adams Douglas N. Adams DNA
German	Douglas Adams	britischer Schriftsteller	Douglas Noël Adams Douglas Noel Adams

[All entered languages](#)

Statements

instance of



human

 [edit](#)

▶ [2 references](#)

[+ add value](#)

image



[Douglas adams portrait cropped.jpg](#) 

 [edit](#)

[media legend](#)

Portræt af Douglas Adams
(Danish)

A portrait photo of Douglas Adams
(English)

Portrait de Douglas Adams.
(French)

Douglas Adams' Porträt.









WIKIDATA




- **User visits Wikidata item page**
...and edits the bad statement



birth name

  Douglas Noël Adams  save  remove  cancel 

Language (mandatory): 

▼ 0 references

+ add reference

+ add value

- **Wikidata processes edit**

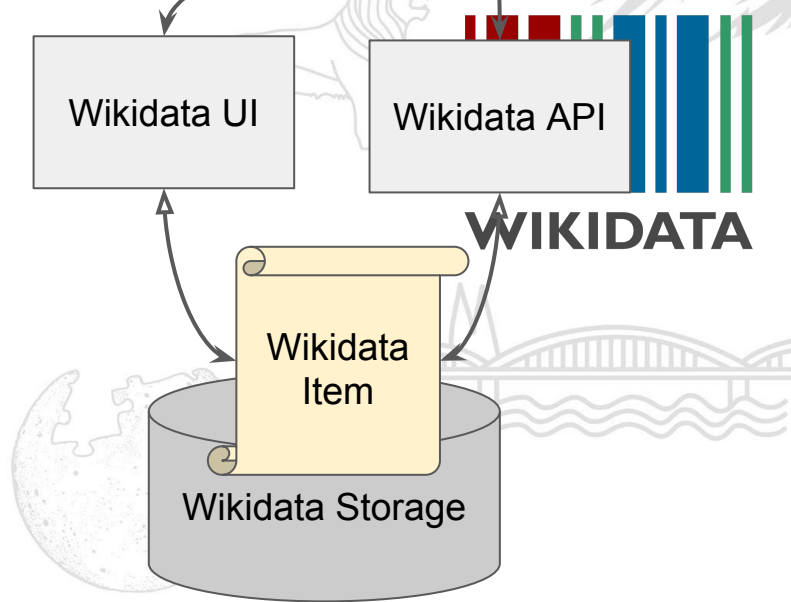
...by applying validation

...storing the new version

```
"P1477": [
  {
    "mainsnak": {
      "snaktype": "value",
      "property": "P1477",
      "datavalue": {
        "value": {
          "text": "Douglas No\u00ebl Adams",
          "language": "en-gb"
        },
        "type": "monolingualtext"
      },
      "datatype": "monolingualtext"
    },
    "type": "statement",
    "id":
      "Q4115189$2d402ae1-431e-f6ba-e839-9d6d6c6e6ea4",
    "rank": "normal"
  }
]
```

```
entities:
  Q4115189:
    pageid: 4246474
    ns: 0
    title: "Q4115189"
    lastrevid: 585020031
    modified: "2017-10-27T16:39:18Z"
    type: "item"
    id: "Q4115189"
  labels: {...}
  descriptions: {...}
  aliases: {...}
  claims:
    P18: [...]
    P106: [...]
    P1477:
      0:
        mainsnak:
          snaktype: "value"
          property: "P1477"
        datavalue:
          value:
            text: "Douglas No\u00ebl Adams"
            language: "en-gb"
            type: "monolingualtext"
          datatype: "monolingualtext"
        type: "statement"
        id: "Q4115189$2d402ae1-431e-f6ba-e839-9d6d6c6e6ea4"
        rank: "normal"
  sitelinks: {...}
```

- **Wikidata processes edit**
 ...by applying validation
 ...storing the new version



main

[action=wbsetclaim](#)

format=json

Results

action=wbsetclaim

Creates or updates an entire Statement or Claim.

{ } Examples

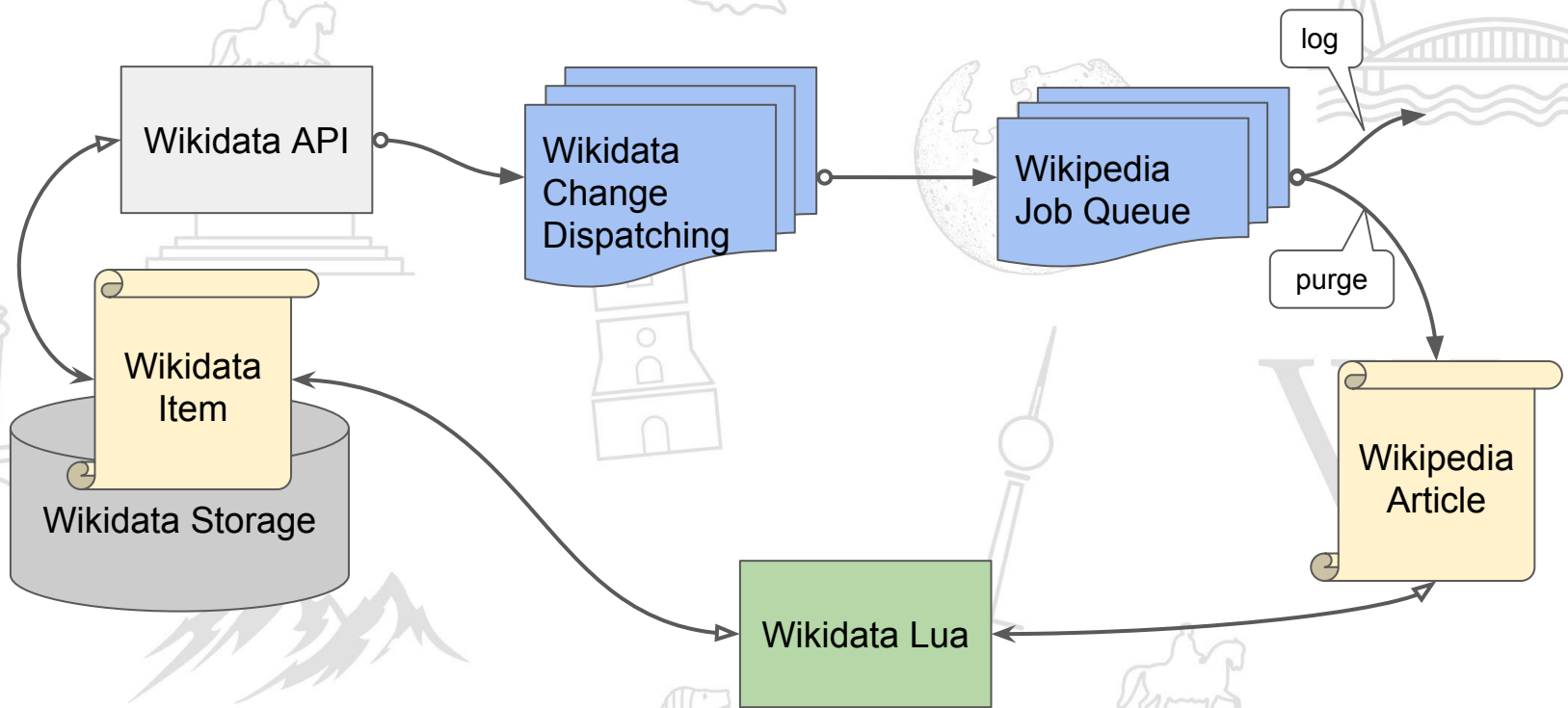
claim

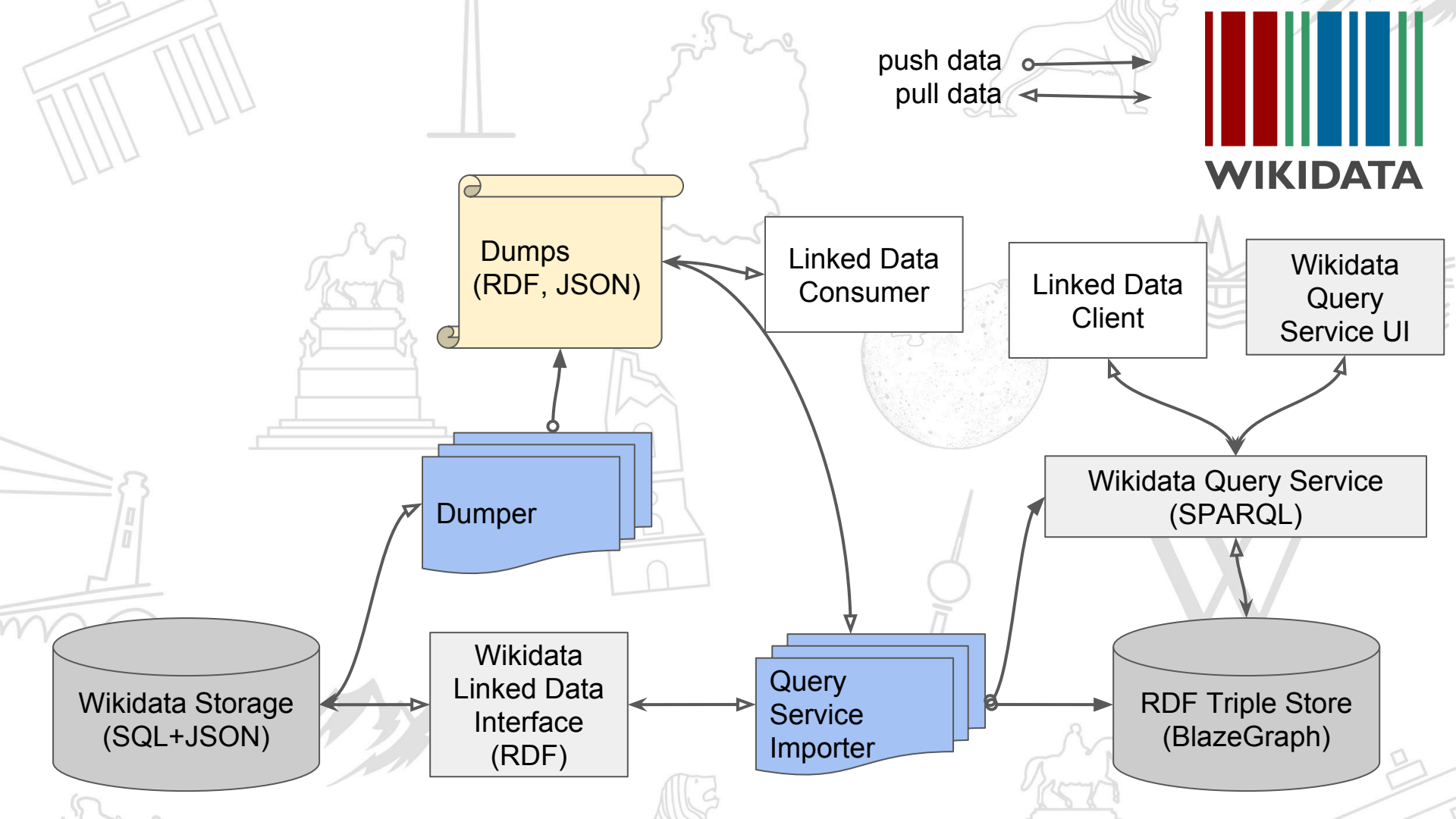
```
{ "id": "Q4115189$5627445f-43cb-ed6d-3adb-760e85bd17ee", "type": "claim", "mainsnak":
```

*

Statement or Claim serialization

- **Wikipedia receives the notification**
...and re-renders the page







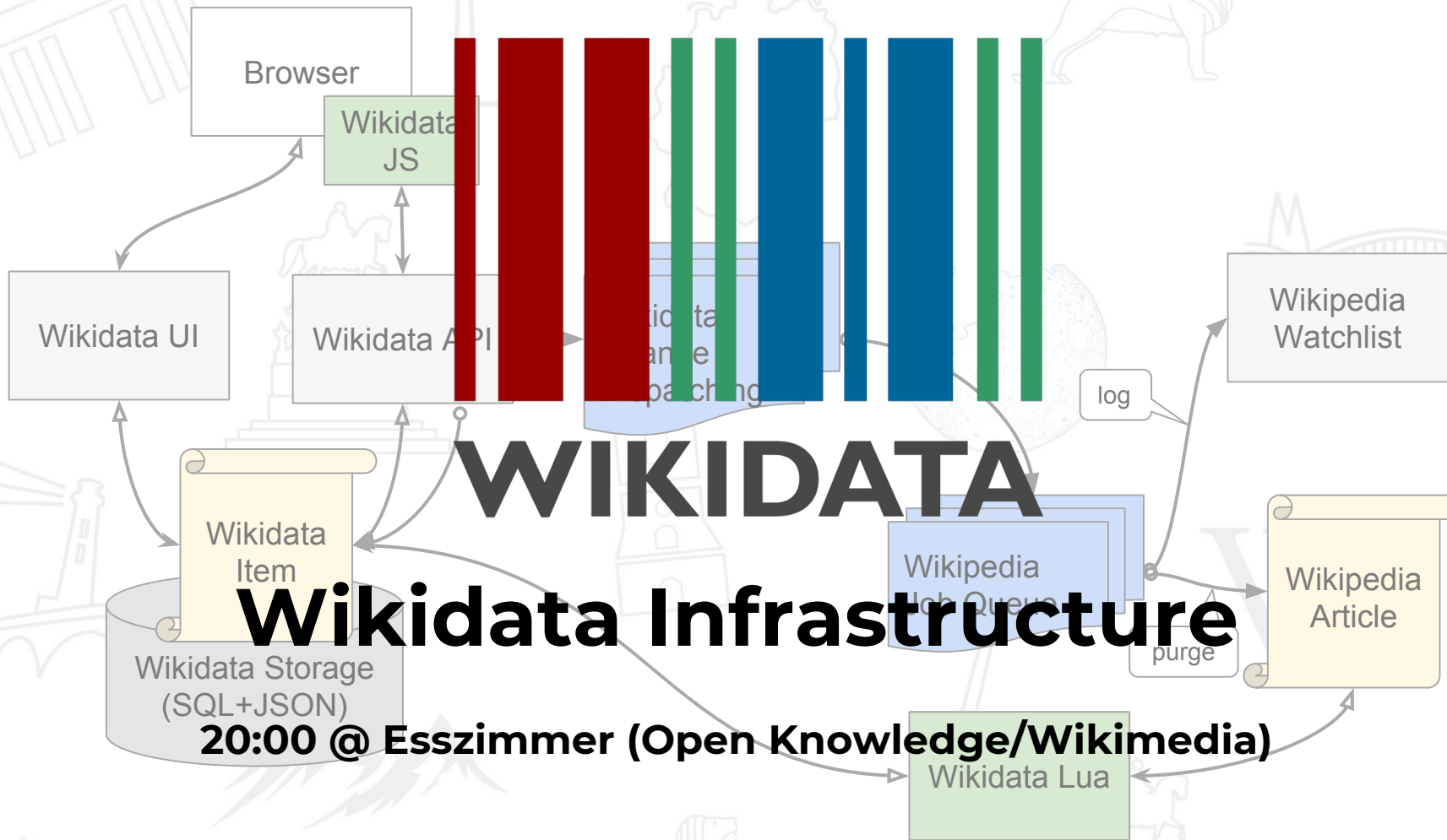
WIKIDATA

Thank You!

https://www.wikidata.org/wiki/Wikidata:Data_access

WIKIDATA

Wikidata Infrastructure



20:00 @ Esszimmer (Open Knowledge/Wikimedia)