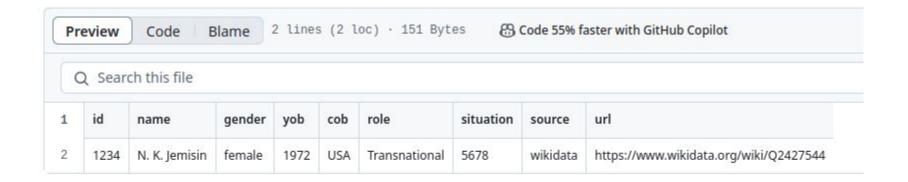
Popolare il World Literature KG con SPARQL-Anything

Let's SPARQL-Anything (a recap)

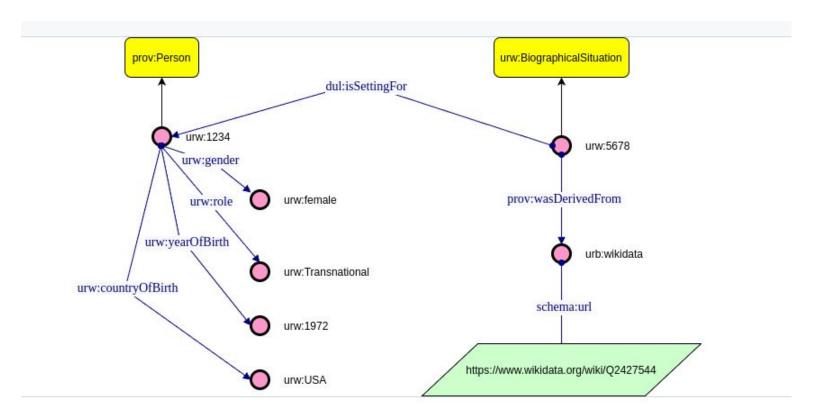
1. A dataset



2. A target KG output

```
urw:1234 a prov:Person;
    rdfs:label 'Nora Keita Jemisin';
    urw:gender urw:female;
    dul:hasRole urw:Transnational;
    urw:yearOfBirth urw:1972;
    urw:countryOfBirth urw:USA .
urw:5678 a urw:BiographicalSituation;
    dul:isSettingFor urw:USA , urw:1972 , urw:Transnational , urw:female , urw:artist1234 ;
    prov:wasDerivedFrom urb:wikidata
urb:wikidata schema:url "https://www.wikidata.org/wiki/02427544" .
```

2. A target KG output



3. A query to convert the dataset in the KG

```
PREFIX schema: <http://schema.org/>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX xml: <a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
PREFIX xsd: <a href="http://www.w3.org/2001/XMLSchema#">http://www.w3.org/2001/XMLSchema#>
PREFIX prov: <http://www.w3.org/ns/prov#>
CONSTRUCT {
  ?writer a prov:Person;
        rdfs:label ?name:
          urw:gender ?wgender;
          dul:hasRole ?wrole;
          urw:yearOfBirth ?wyob;
          urw:countryOfBirth ?wcob .
  ?sit a urw:BiographicalSituation;
    dul:isSettingFor ?writer , ?wgender , ?wrole , ?wyob , ?wcob ;
    prov:wasDerivedFrom ?source .
  ?source schema:url ?url .
} WHERE {
  # Artists from the Tate Gallery open data!
  SERVICE <x-sparql-anything:csv.headers=true,location=./data/author_data.csv> {
    [] xyz:id ?id;
            xyz:name ?name;
          xyz:gender ?gender;
          xyz:role ?role;
          xyz:yob ?yob;
          xyz:cob ?cob ;
      xyz:situation ?situation;
      xyz:url ?url;
      xvz:source ?src .
  BIND (IRI(CONCAT(STR(urw:), "artist", ?id )) AS ?writer) .
  BIND (IRI(CONCAT(STR(urw:), ?gender )) AS ?wgender) .
  BIND (IRI(CONCAT(STR(urw:), ?role )) AS ?wrole) .
  BIND (IRI(CONCAT(STR(urw:), ?yob )) AS ?wyob) .
  BIND (IRI(CONCAT(STR(urw:), ?cob )) AS ?wcob) .
  BIND (IRI(CONCAT(STR(urw:), ?situation )) AS ?sit)
  BIND (IRI(CONCAT(STR(urb:), ?src )) AS ?source) .
```

3.1. The output format

```
CONSTRUCT {
    ?writer a prov:Person;
        rdfs:label ?name;
        urw:gender ?wgender;
        dul:hasRole ?wrole;
        urw:yearOfBirth ?wyob;
        urw:countryOfBirth ?wcob .

?sit a urw:BiographicalSituation;
    dul:isSettingFor ?writer , ?wgender , ?wrole , ?wyob , ?wcob ;
    prov:wasDerivedFrom ?source .

?source schema:url ?url .
```

3.2. The triplification of your dataset

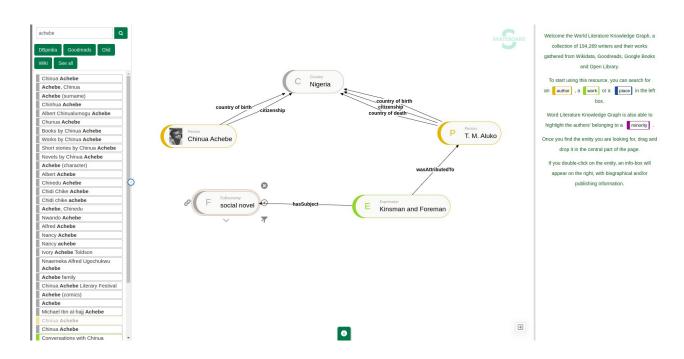
3.3. Variable alignment and iri assignment

```
BIND (IRI(CONCAT(STR(urw:), "artist", ?id )) AS ?writer) .
BIND (IRI(CONCAT(STR(urw:), ?gender )) AS ?wgender) .
BIND (IRI(CONCAT(STR(urw:), ?role )) AS ?wrole) .
BIND (IRI(CONCAT(STR(urw:), ?yob )) AS ?wyob) .
BIND (IRI(CONCAT(STR(urw:), ?cob )) AS ?wcob) .
BIND (IRI(CONCAT(STR(urw:), ?situation )) AS ?sit) .
BIND (IRI(CONCAT(STR(urb:), ?src )) AS ?source) .
```

Your assignment

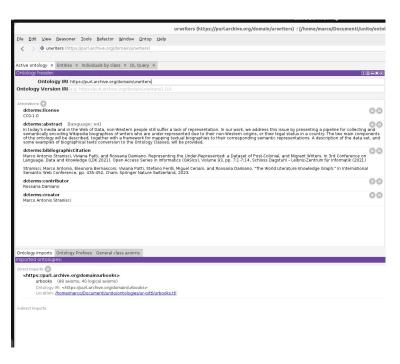
The World Literature Knowledge Graph

A resource for the exploration of underrepresented writers



The Under-Represented Writers Ontology

Modelled on a semantic model for the alignment of different platforms



The objective

Allow people to suggest writers and works that are not included in the World Literature Knowledge Graph

Your assignment

- 1. Choose a piece of knowledge to be encoded
- 2. Check it against it the ontology and, if necessary, modify it
- 3. Create a Google form for gathering information from users
- 4. Process the output file of the G form to convert it in the KG
- 5. Write the PySPARQL-Anything query
- 6. Document everything in the github folder

Bonus track

Implement a scraper that extracts information from different archives and populates the KG

Timeline

Today: form groups, choose the assignment, and design your activity

Friday (11:00-11:30): we solve eventual issues and clarify doubts

Activity repository: https://github.com/world-literature-kg/sa2wl-kg
Ontologies repository: https://github.com/world-literature-kg/ontologies