Unified access to entities with ELMA and JSKOS

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- problem
 - Find URIs of entities (e.g. Copenhagen)
 - Get labels (and some details) of known entities
- solution
 - Entity Lookup Microservice API (ELMA) https://gbv.github.io/elma/
 - ► JSKOS data format for Knowledge Organization Systems https://gbv.github.io/jskos/

- Find URIs of entities
 - http://example.org/?search=copenhagen
 - ▶ list of labels and URIs for typeahead
 - ▶ in OpenSearch Suggestions format

ELMA entity lookup

▶ Get labels (and some details) of known entities

```
http://example.org/?uri=http:
  //www.wikidata.org/entity/Q1748
"uri": "http://www.wikidata.org/entity/Q1748",
"prefLabel": {
  "da": "København",
  "en": "Copenhagen",
  "fi": "Kööpenhamina"
...optional details...
```

- SKOS (prefLabel, broader, narrower...)
- common properties from other ontologies
 (url, next, previous, startDate, endDate...)
- JSON-LD
- optional closed world statements (has-no-narrower, has-narrower)

- ▶ It's so common that everyone implements *in his own ways*
- Easy to build wrappers (at least for entity lookup)
- https://github.com/gbv/jskos-php-examples (VIAF, Wikidata, ORCID, GND, Geonames...)