



CLLD – Cross-Linguistic Linked Data

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Goal

Help collecting the world's language diversity heritage by providing interoperable data publication structures

Linguistic databases on the web

Observations

- ✓ Almost all quantitative papers at ALT 10 used WALS data.
- ✓ Many typologists at ALT 10 have their own typological database.

CLLD – The strategy

Since reuse tends to be the determining factor that keeps resources from vanishing, we want to bridge the gap between data collection and data reuse by

- ✓ publishing databases thereby incentivizing researchers through recognition;
- ✓ using technology that maximizes exposure of our data in the emerging web of data.

CLLD – The implementation

This twofold strategy is implemented by three service components:

- ✓ infrastructural: Glottolog - a comprehensive language catalog and bibliography,
- ✓ structural: Dictionaria – a dictionary journal and CrossGram Journal – a journal publishing typological databases,
- ✓ technological: cld - a software platform for implementing linguistic database applications, which will be used to serve standalone database publications like IDS, WOLD, ASJP, WALS, APICS, eWAVE, valency as well as the journals.

To maximize resuability

- ✓ we provide the data under Open Data Licenses,
- ✓ and the platform as Open Source software under a free license.

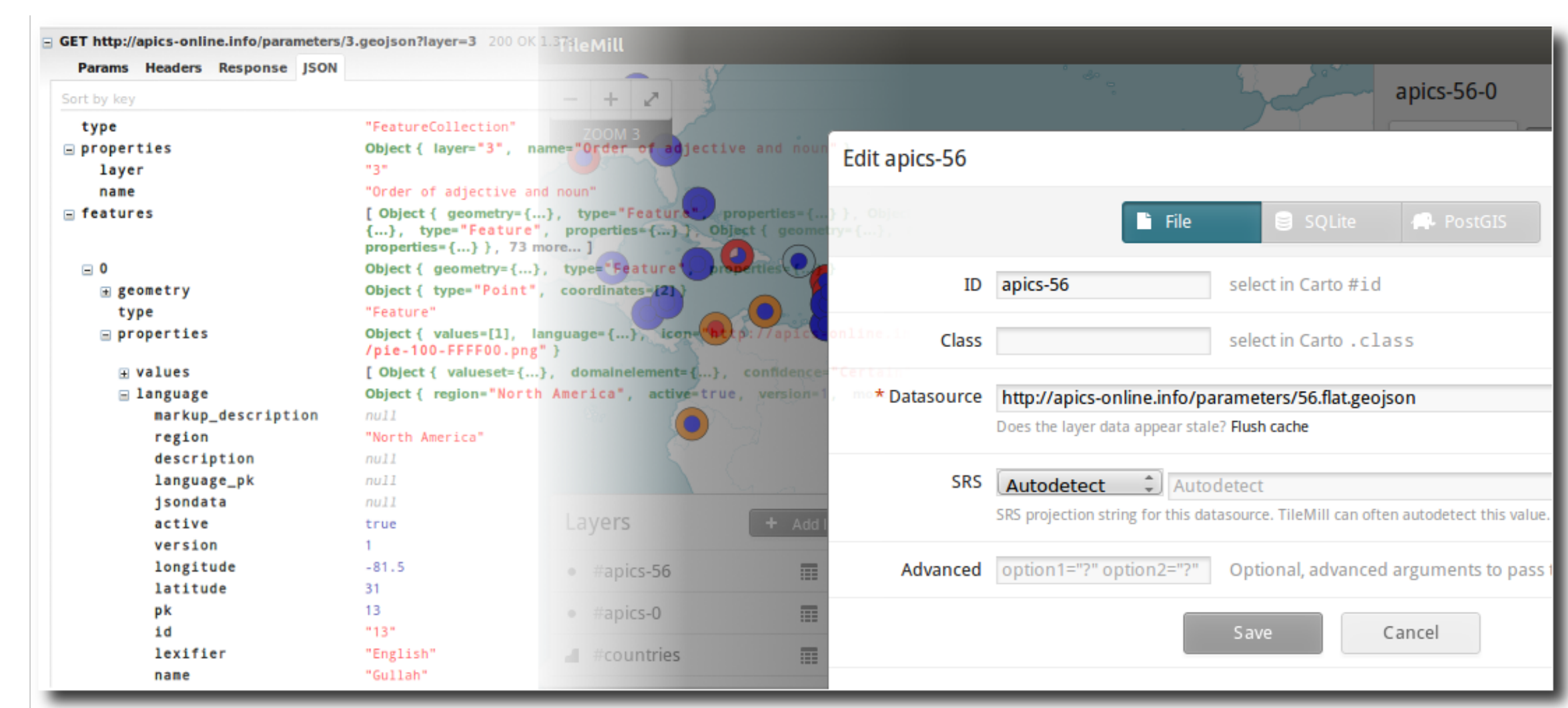
Linked Data

- ✓ defines a unified data access protocol for the web.
- ✓ Well-suited for distributed data providers
 - identifiers are URLs which are globally unique,
 - RDF and OWL provide the vocabulary to merge resources.
- ✓ Provides an easy to implement lowest level of service in a graceful degradation scenario

Linked Data Explorer accessing Glottolog RDF



Tilemill accessing APiCS GeoJSON



The data model

This implementation plan is realistic, because the underlying data model for the target databases is both reasonably simple and abstract enough to cover many use cases.

The data model comprises the following entities: Dataset, Contribution, Contributor, Language, Parameter, Value, UnitParameter, Unit, Sentence, Source.

Value – an APiCS datapoint

Datapoint Kriol/Pronoun conjunction

Both the juxtaposed inclusory construction and the conjoined construction are attested in Kriol. Both are relatively rare so the judgment of relative importance here is very impressionistic.

Values

● Inklusory pronoun juxtaposed with subset NP

Example 25-96: Sentence

Mindubala Namij kolim dardaga.
Mindubala Namij kol-im dardaga.
1DU.EXCL Namij cali-TR plant.species
‘Namij and I (in our language, Ngarinyman) call it dardaga (an edible plant).’

Language: **Kriol** by Eva Schultze-Berndt and Denise Angelo | cite

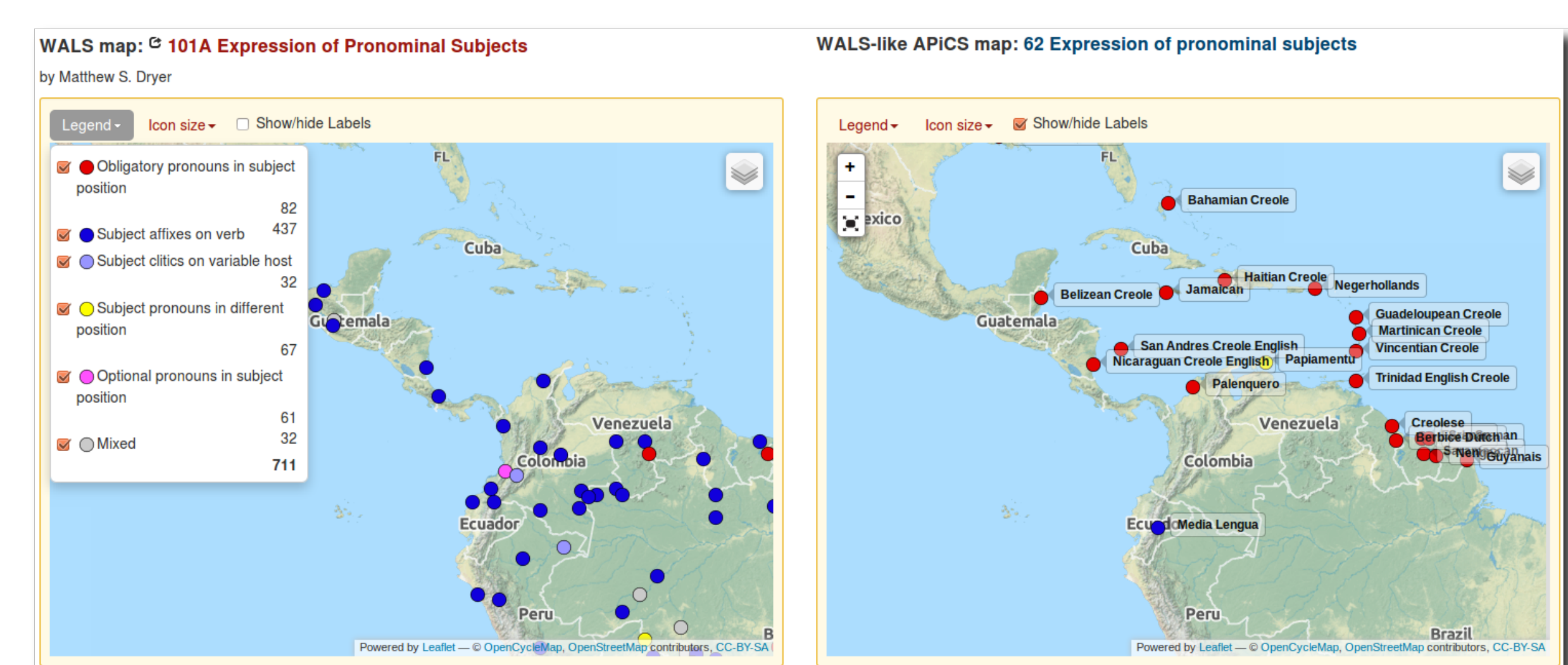
Feature: **Pronoun conjunction**

Source: Fieldwork Schultze-Berndt Angelo et al. 1998a

Contributor: **Parameter**

Source: **Source**

Comparing WALS and APiCS data pulled in as GeoJSON



Unit – a Dictionaria word

Unit caa

deer

00:00 / 00:00

the deer (Hoocak Dictionary Dictionary)

Values

semantic domain: animal_mammal, semantic domain: physical_consumption_food, part of speech: noun

Unit Parameters

Source: **Contribution**

Hoocak Dictionary by Iren Hartmann | cite

Mission accomplished? – A week's Visitors to Glottolog

