Linking Wikimedia and OpenStreetMap

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OpenHistoricalMap
Current State of Affairs

• A bunch of low hanging fruit taken care of
  • somewhat ad-hoc
  • lots of opportunities to do cool and useful things out there
OSM→Wikimedia

• tags: key-value annotations for geo located entities

• wikipedia tag – used to link an entity in OSM to a corresponding wikipedia page

    wikipedia=en:Harmony Mill

• wikidata tag – value of corresponding wikidata item number

    wikidata=Q5659578

• seemingly more for reference purposes at present
OHM→Wikimedia

- OpenHistoricalMap – mapping the past using OSM tools – separate database, some special capabilities
- wikipedia and wikidata tags are integrated into the web interface
- additional useful tags, image:<n>, image:<n>:caption, image:<n>:description
Relation: Harmony Mill Building 3 (2695223)

(1968, Public Domain, link)

Harmony Mill Building 3
1872 - 1936

Harmony Mills, in Cohoes, New York, United States, is an industrial district that is bordered by the Mohawk River and the tracks of the former Troy and Schenectady Railroad (now the Mohawk-Hudson bike trail). It was listed as Harmony Mills Historic District on the National Register of Historic Places in 1978.

Wikipedia | Wikidata

Version #7
improve Harmony Mills, Erie Canal in Cohoes NY
Wikidata→OSM

• Wikidata link to OSM relation
  • Property P402
  • {{maplink ...}}
  • currently only certain OSM relation types are supported

• Wikidata link to OSM object (way, node)
  • Property P10689
Wikidata→OHM

• Not as well supported as OSM, beginnings are in place

• OHM Relation – Property P8424

• nothing for nodes & ways

• not aware of any wikimedia support for using it at present
OHM Relations

• OSM relation: bag of stuff

• OHM has time representation requirements that OSM lacks

• but OHM is restricted to the OSM data model – Nodes, Ways, and Relations

• OHM is using relations to represent complex life cycle concepts
OHM Relations

• And so we have relations representing variants in time, with start_date and end_date on the relation.

• and then a “grouping super relation” – which is what wikidata might actually link to.

• type=chronology?
OHM Relations

Chronology Relation

Variant
Variant
Variant

Geometry
Geometry
Geometry
Geometry
Potential Futures

• Better coordination of Wikimedia and OSM/OHM in developing interactions?

• Currently no method for linking OSM and OHM
  • Minh has proposed using wikidata items for this
  • but they’re external to the OSM/OHM community
Potential Futures

• OHM is, where possible, documenting complex lifecycles

• Wikidata could link to an OHM relation to see nested relations with time ranges

• embed OHM map with time slider?
Potential Futures

- OSM taking OHM inspector enhancements
  - wikipedia link integration
  - image link integration
- Wikidata items considered as a broader unifying identifier for open data projects
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