



developmentSEED

OSM for Cities

Urban data from OpenStreetMap

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Producing and accessing city data can be difficult

- Few cities have the budget to maintain an updated database
- Lack of trained personnel to manage geospatial data
- Locked into proprietary tools
- High licensing costs for specialized software
- Bureaucratic processes that slow down data updating and access
- And more...

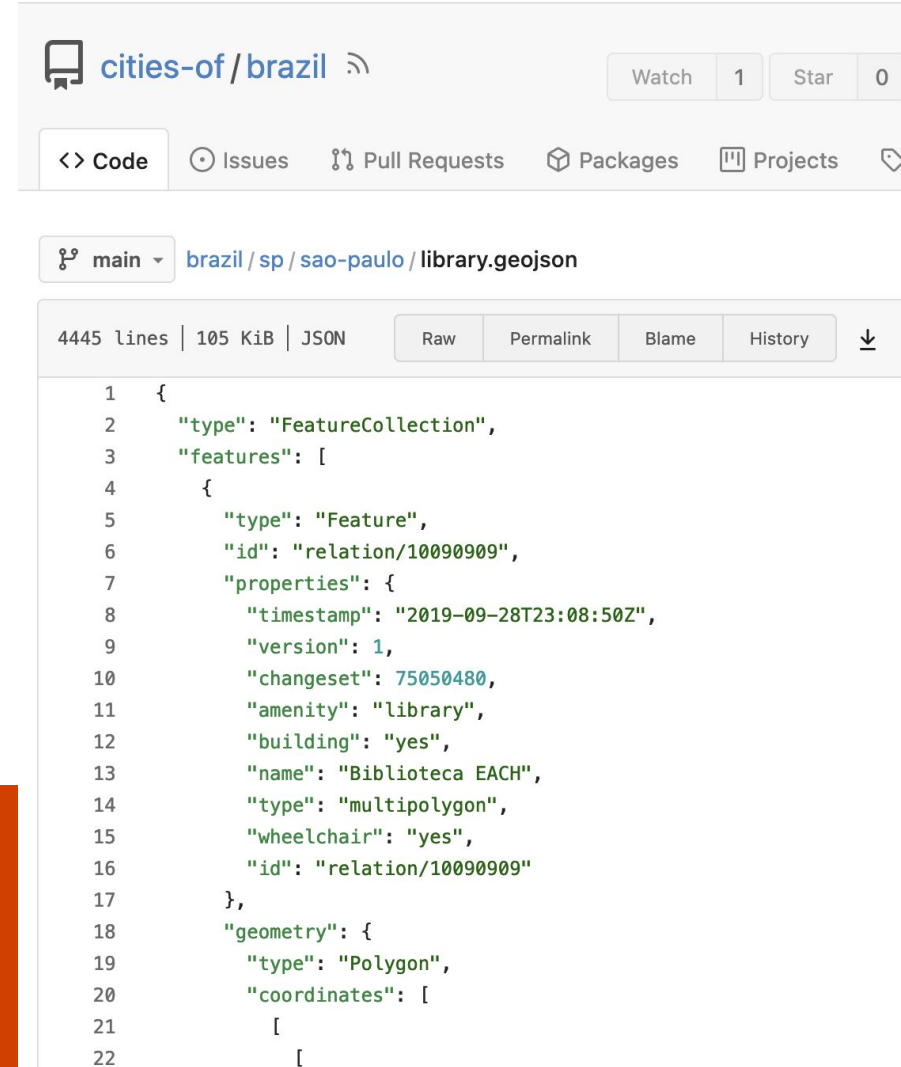
OSM for Cities can help

- **Open Data Access:** Provides free, regularly updated geospatial data from OpenStreetMap
- **Seamless Integration:** Uses GeoJSON for easy data use and visualization
- **Cost-Effective:** Eliminates reliance on expensive proprietary tools
- **User-Friendly:** Simplifies data analysis with intuitive interfaces
- **Empowers Cities:** Accessible tools for small and medium-sized cities
- **Community Support:** Backed OpenStreetMap community

A custom pipeline for OSM data

```
$ node cli/index.js context cities-of-brazil update
[10:24:55.999] INFO (63354): -> Could not find last commit date, using
[10:24:55.999] INFO (63354): -> Filtering: 2023-05-01T00:00:00Z
[10:25:18.319] INFO (63354): -> Extracting country from current day fil
[10:25:25.058] INFO (63354): -> Extracting level 1 data...
[10:25:25.062] INFO (63354): -> Extracting level 1 area with id: 11...
[10:25:25.355] INFO (63354): -> Extracting level 1 area with id: 12...
[10:25:25.612] INFO (63354): -> Extracting level 1 area with id: 13...
[10:25:25.984] INFO (63354): -> Extracting level 1 area with id: 14...
[10:25:26.277] INFO (63354): -> Extracting level 1 area with id: 15...
[10:25:26.891] INFO (63354): -> Extracting level 1 area with id: 16...
[10:25:27.124] INFO (63354): -> Extracting level 1 area with id: 17...
[10:25:27.517] INFO (63354): -> Extracting level 1 area with id: 21...
[10:25:27.975] INFO (63354): -> Extracting level 1 area with id: 22...
[10:25:28.407] INFO (63354): -> Extracting level 1 area with id: 23...
[10:25:29.117] INFO (63354): -> Extracting level 1 area with id: 24...
[10:25:29.780] INFO (63354): -> Extracting level 1 area with id: 25...
[10:25:30.402] INFO (63354): -> Extracting level 1 area with id: 26...
[10:25:31.069] INFO (63354): -> Extracting level 1 area with id: 27...
[10:25:31.496] INFO (63354): -> Extracting level 1 area with id: 28...
[10:25:32.038] INFO (63354): -> Extracting level 1 area with id: 29...
[10:25:32.795] INFO (63354): -> Extracting level 1 area with id: 31...
[10:25:33.685] INFO (63354): -> Extracting level 1 area with id: 32...
[10:25:34.380] INFO (63354): -> Extracting level 1 area with id: 33...
[10:25:35.077] INFO (63354): -> Extracting level 1 area with id: 35...
[10:25:35.815] INFO (63354): -> Extracting level 1 area with id: 41...
[10:25:36.332] INFO (63354): -> Extracting level 1 area with id: 42...
[10:25:37.066] INFO (63354): -> Extracting level 1 area with id: 43...
[10:25:37.618] INFO (63354): -> Extracting level 1 area with id: 50...
[10:25:38.023] INFO (63354): -> Extracting level 1 area with id: 51...
[10:25:38.422] INFO (63354): -> Extracting level 1 area with id: 52...
[10:25:38.946] INFO (63354): -> Extracting level 1 area with id: 53...
[10:25:39.354] INFO (63354): -> Extracting level 2 data...
[10:25:39.357] INFO (63354): -> Extracting level 2 area with id: 11001.
[10:25:39.451] INFO (63354): -> Extracting level 2 area with id: 11002.
[10:25:39.473] INFO (63354): -> Extracting level 2 area with id: 11003.
```

A git-based approach



The screenshot shows the GitHub interface for the repository 'cities-of / brazil'. The file 'library.geojson' is selected, showing its content in a code editor. The file is 4445 lines long, 105 KiB, and is in JSON format. The code is a GeoJSON FeatureCollection containing a single feature representing a library in São Paulo.

```
1  {
2    "type": "FeatureCollection",
3    "features": [
4      {
5        "type": "Feature",
6        "id": "relation/10090909",
7        "properties": {
8          "timestamp": "2019-09-28T23:08:50Z",
9          "version": 1,
10         "changeset": 75050480,
11         "amenity": "library",
12         "building": "yes",
13         "name": "Biblioteca EACH",
14         "type": "multipolygon",
15         "wheelchair": "yes",
16         "id": "relation/10090909"
17       },
18       "geometry": {
19         "type": "Polygon",
20         "coordinates": [
21           [
22             [
```

30+ datasets categories

name	category	osmium_filter
Bicycle Rentals	cycling	nrw/amenity=bicycle_rental
Bicycle Parking	cycling	nrw/amenity=bicycle_parking
Bicycle Shops	cycling	nrw/shop=bicycle
Clinics	health	nrw/amenity=clinic
Toilets	health	nrw/amenity=toilets
Drinking Water	health	nrw/amenity=drinking_water
Doctors	health	nrw/amenity=doctors
Dentists	health	nrw/amenity=dentist
Health Posts	health	nrw/amenity=health_post
Hospitals	health	nrw/amenity=hospital
Nursing Homes	health	nrw/amenity=nursing_home
Pharmacies	health	nrw/amenity=pharmacy
Veterinaries	health	nrw/amenity=veterinary
Social Facilities	social	nrw/amenity=social_facility
Community Centres	social	nrw/amenity=community_centre
Kindergartens	education	nrw/amenity=kindergarten
Schools	education	nrw/amenity=school
Universities	education	nrw/amenity=university
Colleges	education	nrw/amenity=college
Libraries	education	nrw/amenity=library
Arts Centres	culture	nrw/amenity=arts_centre
Galleries	culture	nrw/tourism=gallery
Monuments	culture	nrw/historic=monument
Memorials	culture	nrw/historic=memorial
Heritage	culture	nrw/heritage
Cinemas	culture	nrw/amenity=cinema
Government Offices	government	nrw/office=government
Waterfalls	environment	nrw/waterway=waterfall
Tailings Ponds	environment	nrw/man_made=tailings_pond
Dams	environment	nrw/waterway=dam
Guest Houses	tourism	nrw/tourism=guest_house
Hotels	tourism	nrw/tourism=hotel
Sports	leisure	nrw/sport

Our first country: Brazil



Discover free maps of your city.

OSM for Cities is a platform that provides daily updated city-level maps from OpenStreetMap, the map of the world where everyone can collaborate.

Featured Datasets

Datasets with more than 20 features, in descending order of required tag coverage.

Cycling

Bicycle Rentals in Recife, PE	68 features, 100% coverage
Bicycle Rentals in Fortaleza, CE	207 features, 99.2% coverage
Bicycle Rentals in Salvador, BA	56 features, 97.6% coverage
Bicycle Rentals in Porto Alegre, RS	54 features, 96.9% coverage

Name	# of presets	coverage (%)
Belém	28	42.9%
Santarém	25	42.3%
Ananindeua	20	52.3%
Óbidos	18	47.4%
Altamira	17	39.1%
Capanema	17	22.5%
Castanhal	17	36.2%
Marabá	17	40.1%
Paragominas	17	32.5%
Bragança	16	34.8%
Parauapebas	16	44.4%
Abaetetuba	15	38.6%
Itaituba	15	42.1%

[Home](#) > [Brazil](#) > [Pará](#) > [Belém](#)

City Info

Name	Belém
Total Features	1067
Total changesets	726

Presets List

Name	last edited	# of features	# of changesets	required tags coverage (%)
Schools	Nov 28, 2024	163	118	29.4%
Hospitals	Nov 28, 2024	40	35	30%
Hotels	Nov 25, 2024	34	34	75.7%
Colleges	Nov 25, 2024	9	9	37.8%
Universities	Nov 17, 2024	53	33	21.9%
Sports	Nov 17, 2024	275	153	100%
Cinemas	Nov 17, 2024	5	5	20%

[← all city datasets](#)

Schools in Belém

category

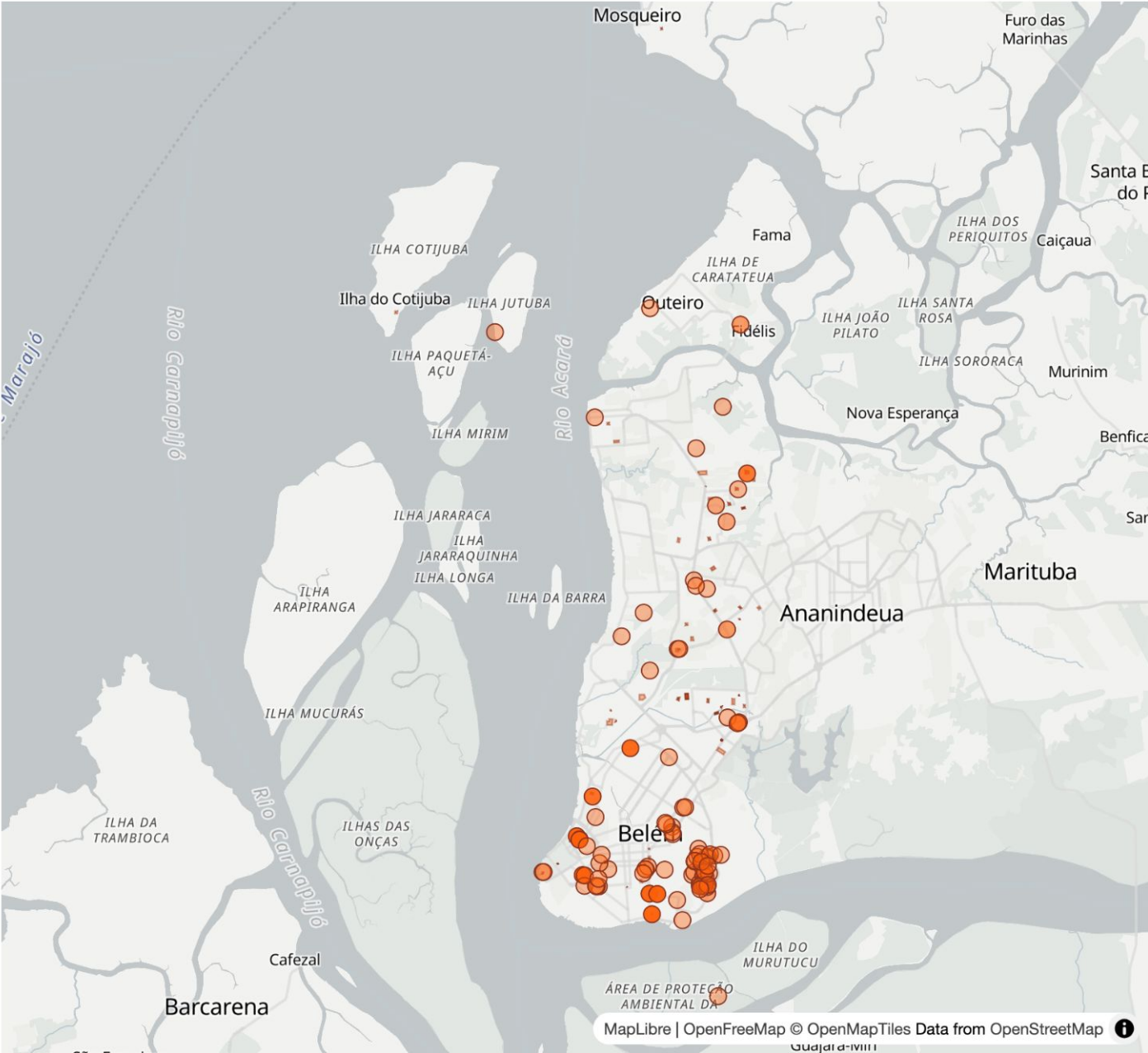
education

feature count

163

NAME/OSM ID	VERSION	AGE
Collegio Santa Rosa node/12383282542	1	1 w
Maple Bear node/12383270275	1	1 w
Colégio Estadual Paes de Carvalho way/428576020	2	2 w
Instituto Estadual Carlos Gomes way/330470349	3	2 w
Barão de igarapé mirim way/1333221883	2	3 w
EEEFM Barão de Igarapé Miri way/1333223170	1	3 w
Unnamed way/1333222584	1	3 w
EMEF Prof Amália Paumgarten node/12334635397	1	3 w
zacharias way/1333221286	1	3 w
E.E.E.M. Governador Alexandre Zacharias de Assumpção way/1333221273	1	3 w
EEEM GOV ALEXANDRE ZACARIAS DE ASSUMPÇÃO way/1333221130	1	3 w

Download



The future

UI improvements

OSM Teams integration?

More frequent updates

RSS/E-mail notifications

More languages!

Validation workflows



developmentSEED

We need your feedback:

<https://osmforcities.org>

