



OSM Tools

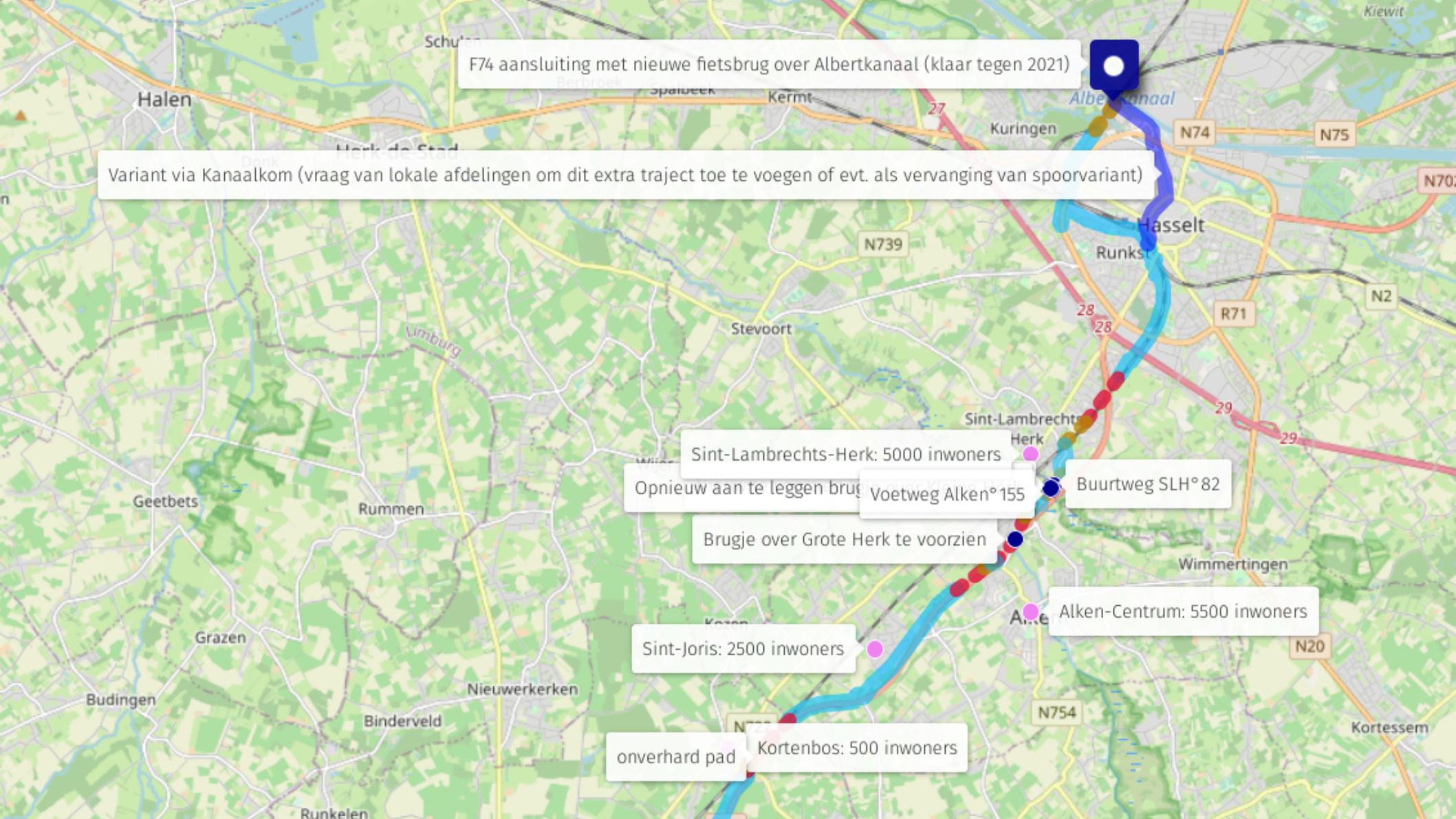
OSM has a diverse ecosystem

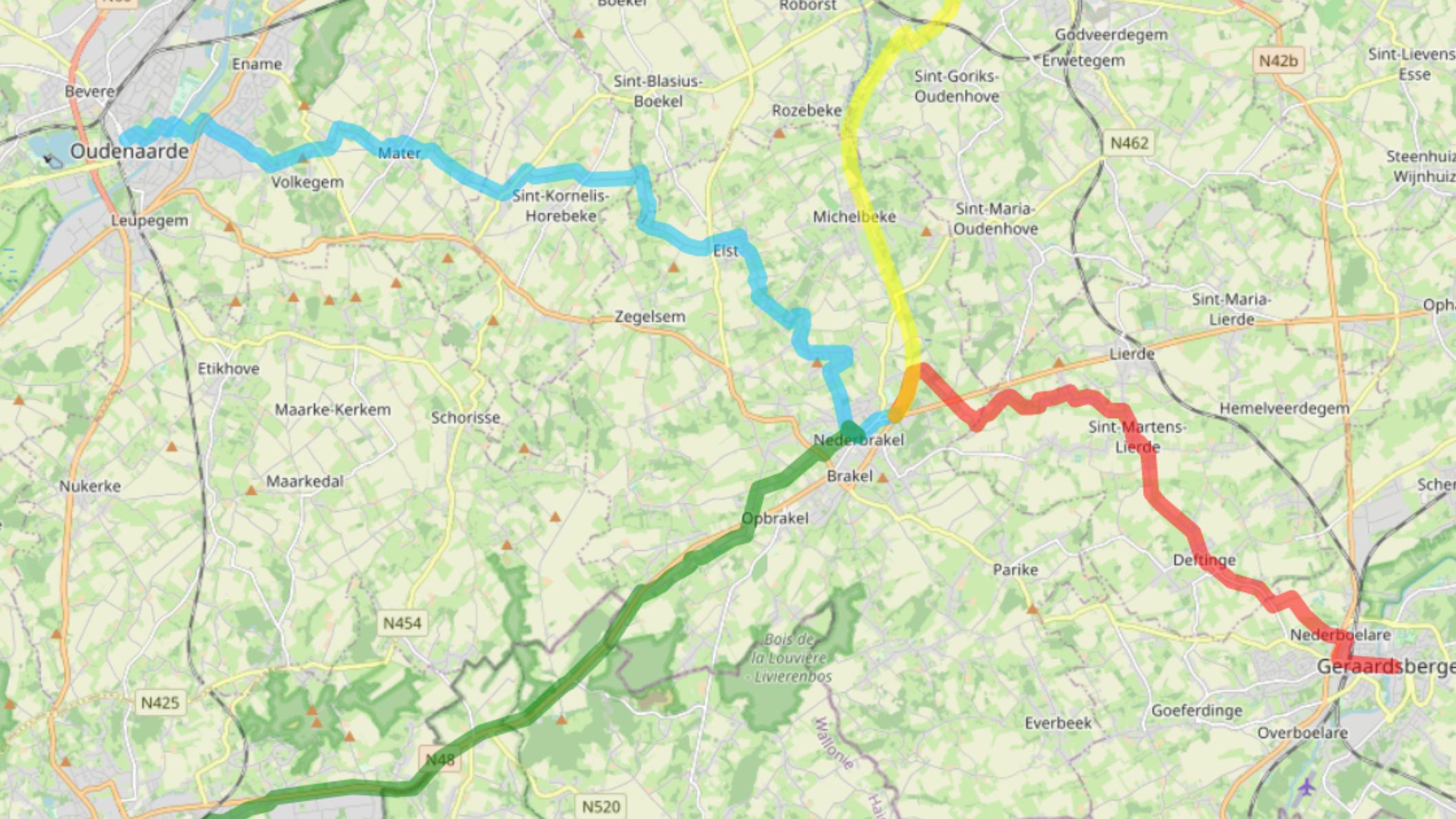
- Difficult to know them all
- Constant change – projects start and die
- A tool for everything with different providers

Umap.openstreetmap.fr

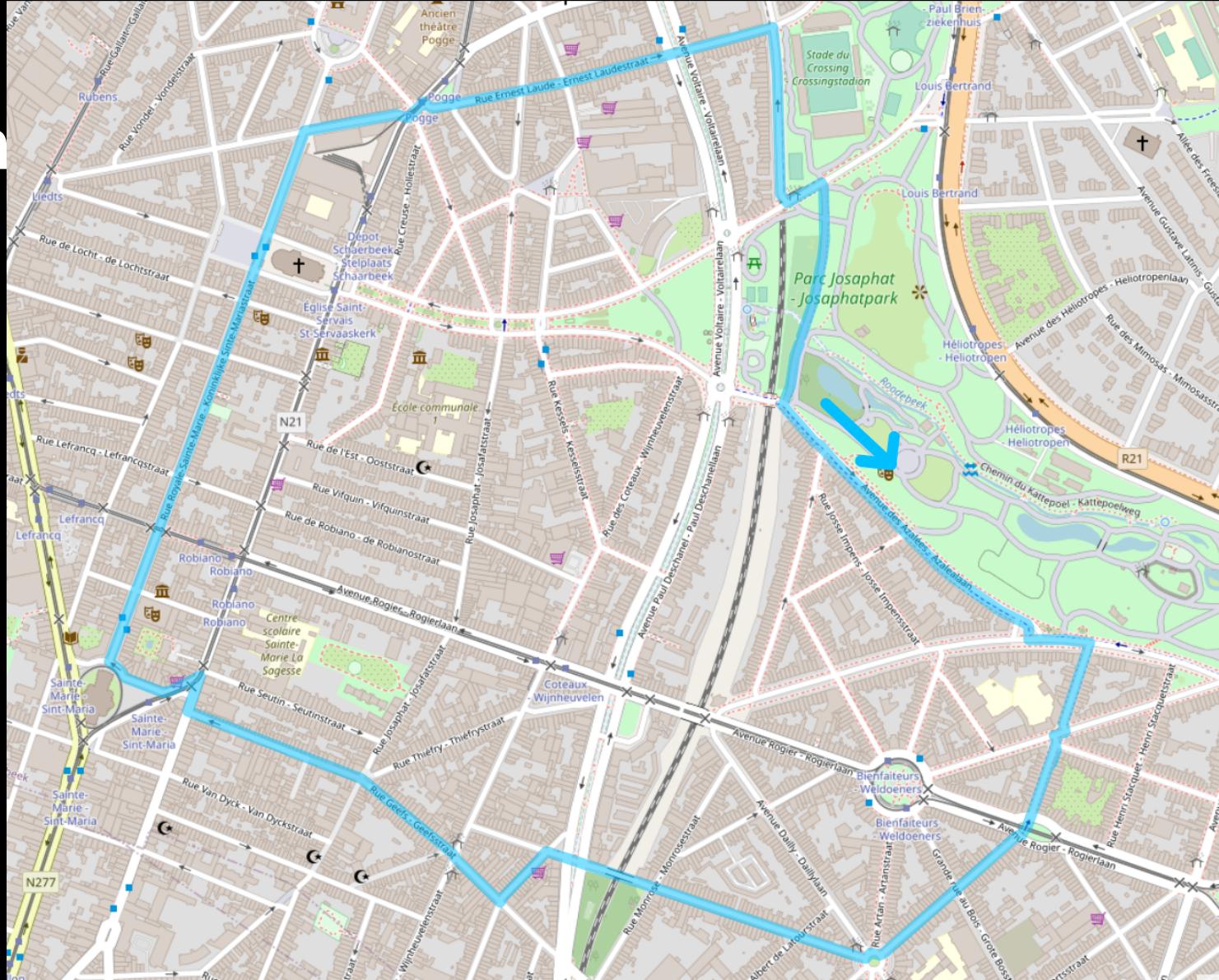
- Ideal to add geodata *not* suited for OSM itself
 - Preparing an event
 - Planning an outing
 - ...







UMa



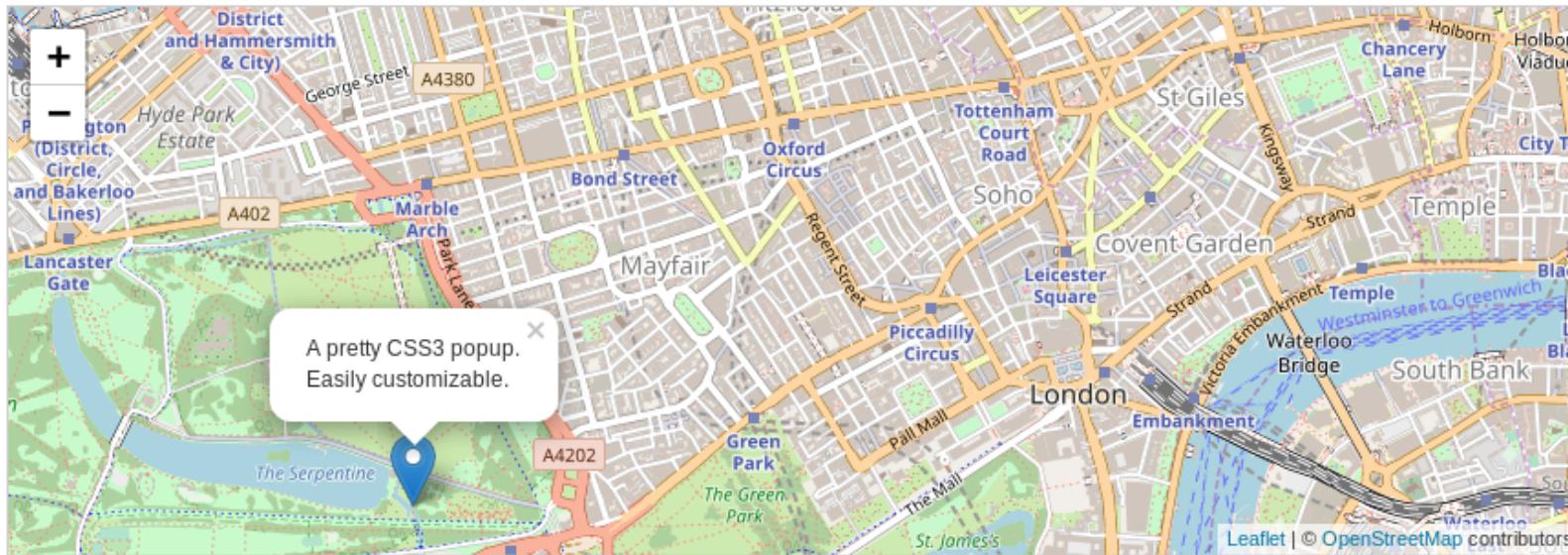
A webmap on your website



Leafletjs.com

- Small & friendly JS-library





Here we create a map in the 'map' div, add tiles of our choice, and then add a marker with some text in a popup:

```
var map = L.map('map').setView([51.505, -0.09], 13);

L.tileLayer('https://s.tile.openstreetmap.org/{z}/{x}/{y}.png', {
    attribution: '&copy; <a href="https://www.openstreetmap.org/copyright">OpenStreetMap</a> contributors'
}).addTo(map);

L.marker([51.5, -0.09]).addTo(map)
    .bindPopup('A pretty CSS3 popup.<br>Easily customizable.')
    .openPopup();
```

Leafletjs.com

- Small & friendly JS-library
- Read their docs! They are awesome!





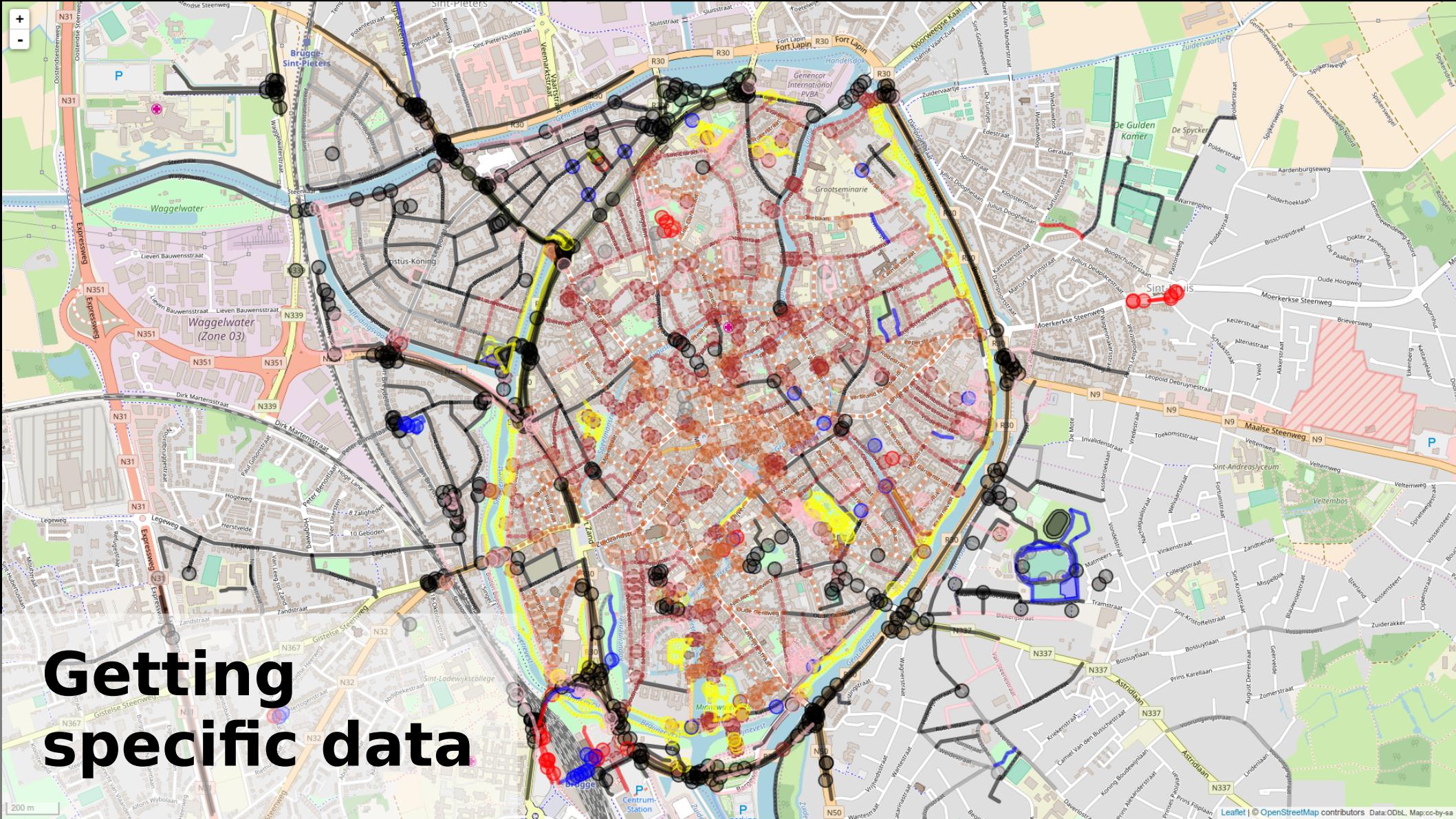
This reference reflects **Leaflet 1.5.0** and **Leaflet 1.5.1**. Check [this list](#) if you are using a different version of Leaflet.

Map	UI Layers	Other Layers	Utility	Base Classes
Usage example	Marker	LayerGroup	Browser	Class
Creation	Popup	FeatureGroup	Util	Evented
Options	Tooltip	GeoJSON	Transformation	Layer
Events		GridLayer	LineUtil	Interactive layer
	Raster Layers		PolyUtil	Control
Map Methods		Basic Types		Handler
	TileLayer		DOM Utility	Projection
Modifying map state	TileLayer.WMS	LatLng		CRS
Getting map state	ImageOverlay	LatLngBounds	DomEvent	Renderer
Layers and controls	VideoOverlay	Point	DomUtil	
Conversion methods		Bounds	PosAnimation	Misc
Other methods	Vector Layers	Icon	Draggable	
		DivIcon		Event objects
Map Misc	Path			global switches
	Polyline	Controls		noConflict
Properties	Polygon	Zoom		version
Panes	Rectangle	Attribution		
	Circle	Layers		
	CircleMarker	Scale		
	SVGOVERLAY			
	SVG			
	Canvas			

Mapbox GL JS (MapLibre?)

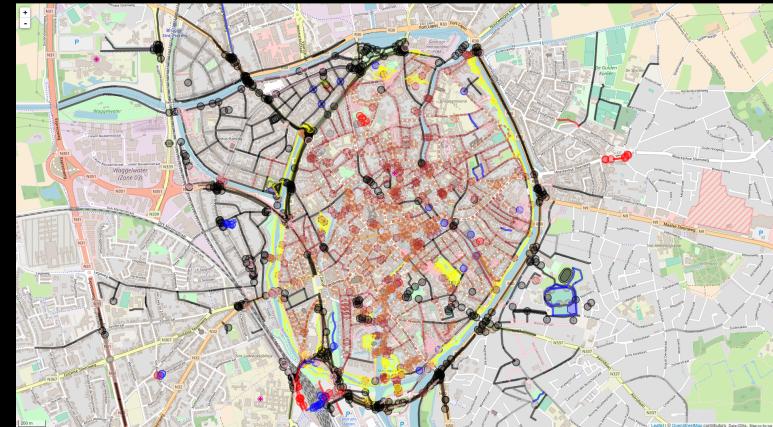
- Sends vector tiles to the client (instead of PNG's)
- More possibilities, but harder to set up
- Tied to Mapbox as provider (not FLOSS since version 2.0)

Getting specific data



Getting specific data

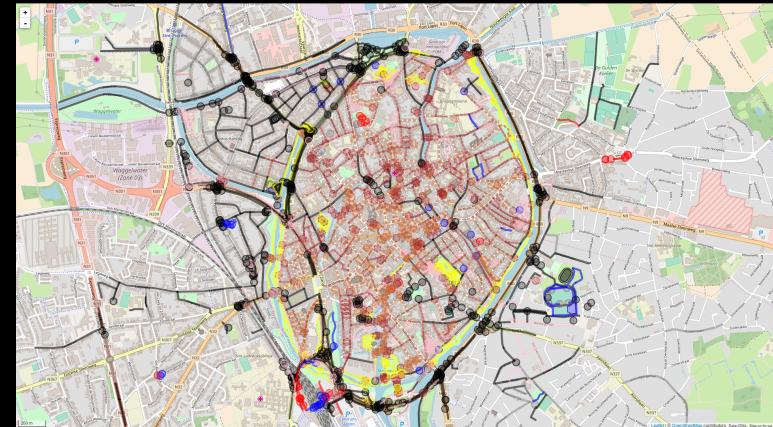
- Where are all the chimneys/hairdressers/roads with cobblestone/... in ... ?
- Ask overpass!



Overpass

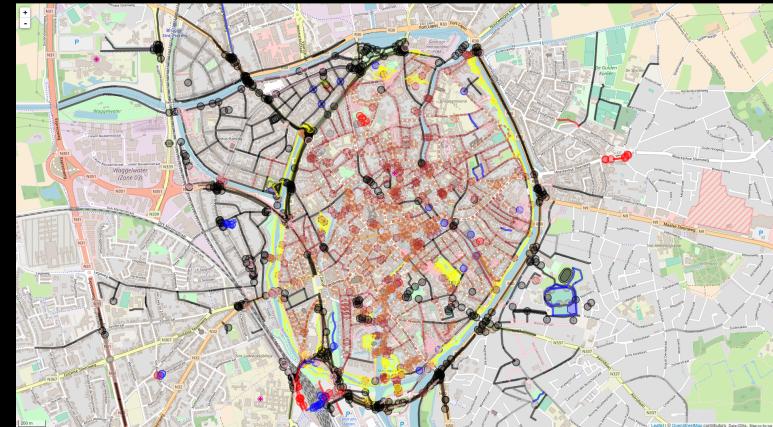
- Easily **query** the OSM-database
- Can be used to create an on-the-fly, automatically up-to-date map*
- Lots of complicated features
- 10'000 queries/(day*project)

(* often a few minutes behind osm.org)



Overpass-turbo.eu

- Where are all the chimneys/hairdressers/roads with cobblestone/... in ... ?
- Ask overpass!



Using overpass-turbo

- 1) Lookup the tag(s) on wiki.osm.org
- 2) Go to overpass-turbo.eu
- 3) Click 'wizard'
- 4) Enter your query

highway=* & surface=*

natural=water | water=*

natural=tree in Brussels

...

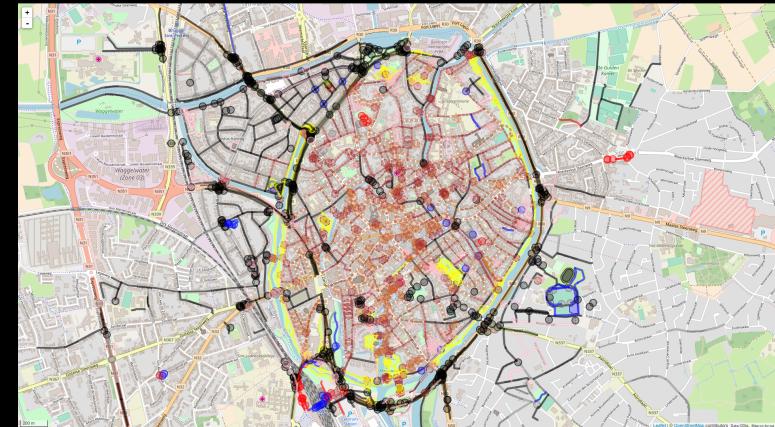
- 5) Click 'Build and run query'



Using overpass-turbo

Users of DuckDuckGo:

- 1) !wosm *bicycle parking*
- 2) !otw *amenity=bicycle_parking*
- 3) Done

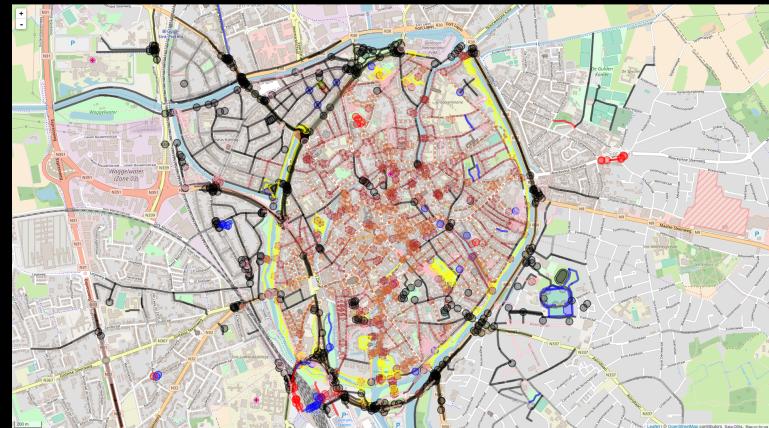


Using overpass-turbo

Click 'export' to save as
GeoJson, GPX, XML, ...

... or to get a URI to query in another app
(such as JS to pass it to Leaflet)

Click 'share' to share with others



On paper: maposmatic

✓ MyOSMatic Home Create map Maps About English

Search for a map

Welcome to MyOSMatic

This is a free software web service that allows you to generate maps of cities using OpenStreetMap data. The generated maps are available in PNG, PDF and SVG formats and are ready to be printed.

As the data used to generate maps is coming from OpenStreetMap, you can freely reuse, sell, or modify the generated maps under the [terms of the OpenStreetMap license](#).

[Learn more](#) [Create a map »](#)



Plain Layout

Platform status

All systems are operational.

✓ The rendering daemon is running.

✓ The GIS database is online and up to date, updated 0 minutes ago.

✓ The Waymarked route database is online and up to date, updated 2 minutes ago.

Latest news

- Coming soon: multi file uploads published 1 week, 2 days ago
- Upcoming: new papersize form step published 3 weeks, 4 days ago
- Data area bounds revisited published 1 month ago
- Custom paper size choice published 1 month ago

MapOSMatic is a free software webservice to generate maps of cities using OpenStreetMap data.

hartmut@php.net [irc://irc.freenode.net/#maposmatic](#)

[Privacy statement](#)

✓ MyOSMatic Home Create map Maps About English Search for a map

« 1 2 ... 4209 4210 »

Maps

North Shore

Bounding Box

49°31'17"N, 123°25'38"W ↘ 49°16'36"N, 122°48'31"W (ca. 44 x 27 km²)



plain

OpenTopoMap

1264x844 mm²

Canada

Submitted Feb. 26, 2020, 1:38 a.m.

Started Feb. 26, 2020, 1:38 a.m., after 0 minutes in the queue

Feb. 26, 2020, 1:41 a.m., after 2 minutes



Recreate

hüringen

» 51°16'10"N, 10°0'57"E ↘ 51°10'36"N, 10°15'19"E (ca. 16 x 10 km²)



plain

StreetsWithoutNames

594x420 mm²

Mobility analysis sandbox to experiment

Disclaimer:
this slide is shameless self-promotion
for anyways.eu

3rd party route planning

- Providers exists who do route planning (we are one)
- Hobby projects: see the graphhopper instance
- Bigger projects: search a commercial provider (e.g. anyways.eu)...



On your phone!



On your phone!

An app for every usecase

- Some are simple, some have tons of features
- Some are paid, some are “free”
- Some focus on cyclists, hikers, vegetarians, ...
- Some are playful! (#PoGo)
- Some are crappy



Navigation apps

- OsmAnd
- Maps.me
- Magic Earth
- ...



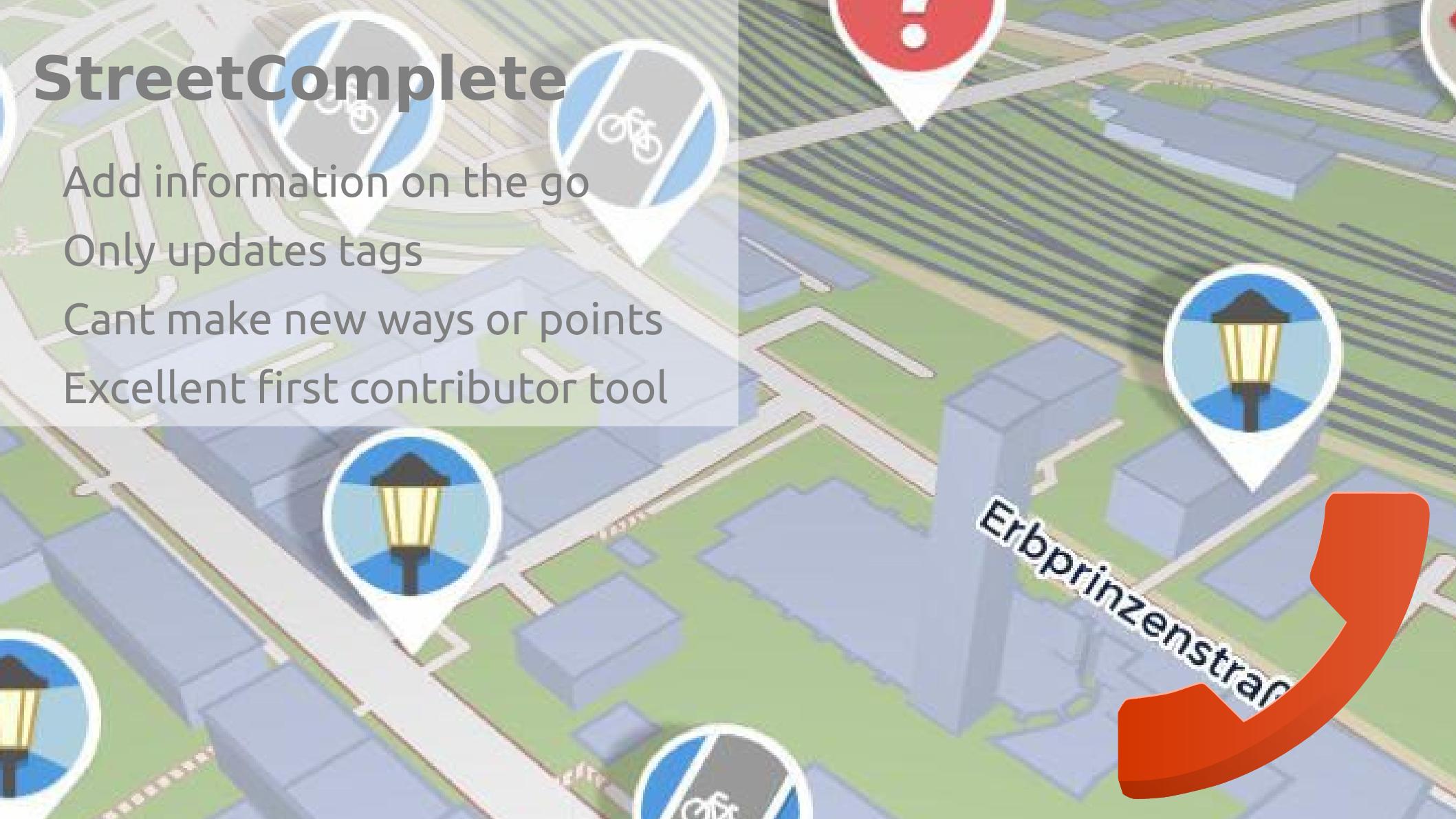
StreetComplete

Add information on the go

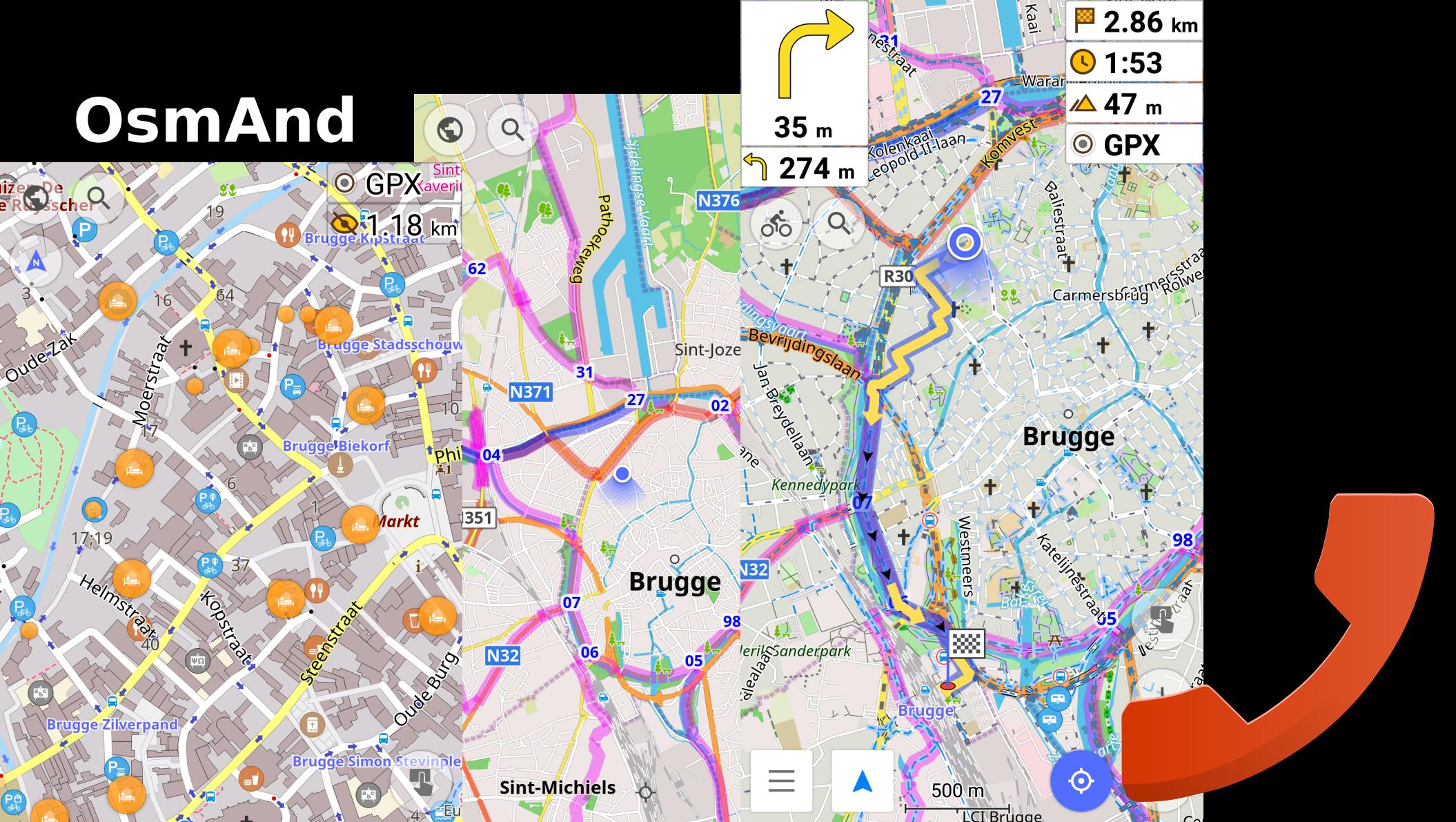
Only updates tags

Can't make new ways or points

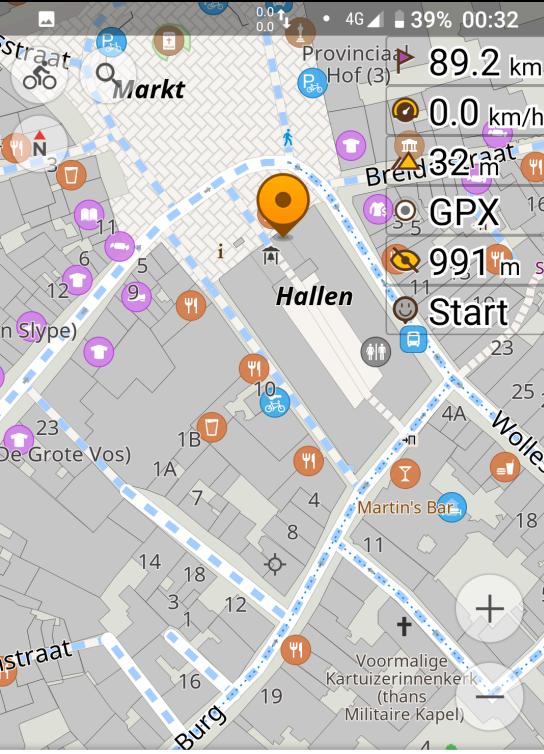
Excellent first contributor tool



OsmAnd



OsmAnd

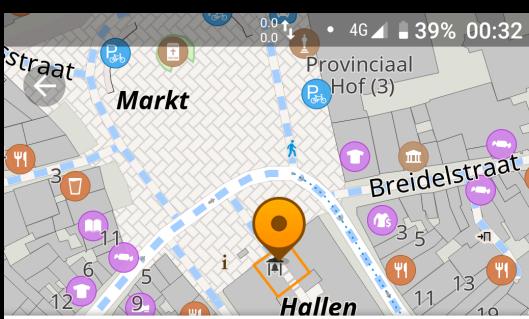


Belfry of Bruges

Wikipedia: Hallen, Brugge-Centrum

▼ 885 m

[READ ARTICLE](#)



Belfort

Tower: Hallen, Brugge-Centrum

Open from 09:30 ▾ 888 m



Add



Marker



Share



Actions

[COLLAPSE](#)

[DIRECTIONS](#)

Historic_yes
yes

Mon-Sun 09:30-18:00

Description
Belfort-Hal of Halleoren

Height
83

Fee
€10/adult;€8/senior (>)

Alt_name
Halleoren

Belfry of Bruges

The **Belfry of Bruges** (Belfort van Brugge) is a [medieval bell tower](#) in the centre of [Bruges, Belgium](#). One of the city's most prominent symbols, the belfry formerly housed a treasury and the municipal archives, and served as an observation post for spotting fires and other danger. A narrow, steep staircase of 366 steps, accessible by the public for an entry fee, leads to the top of the 83 m (272 feet) high building, which leans 87 centimeters to the east.

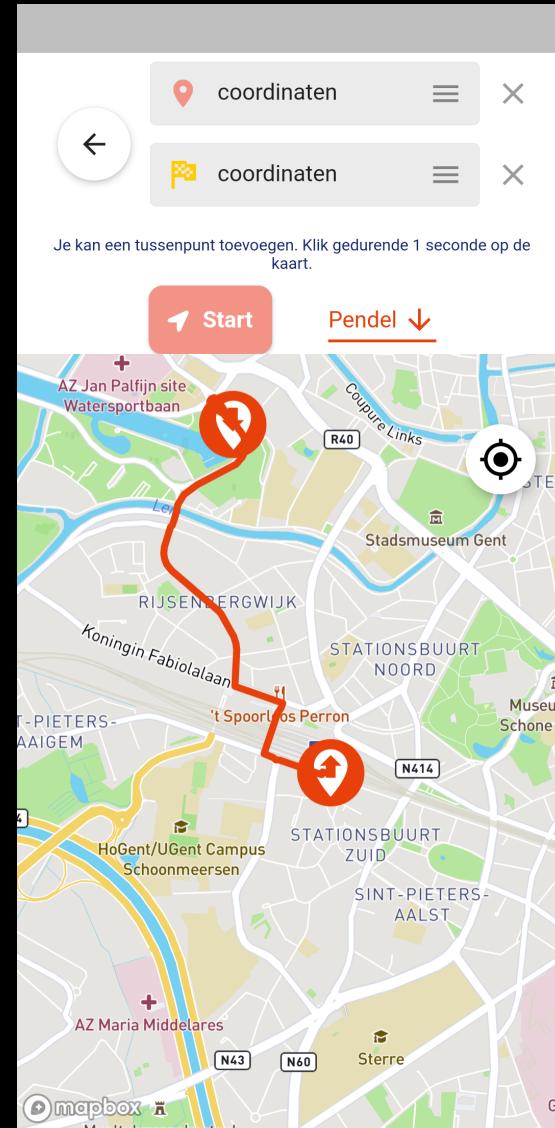
To the sides and back of the tower stands the former market hall, a rectangular building only 44 m broad but [READ FULL ARTICLE \(ONLINE\)](#) courtyard. The belfry, accordingly, is



Maps.me



Bike To Work-app





OSM

OSM has a diverse ecosystem

- Difficult to know them all
- A small personal webmap: UMAP
- Need data: Overpass-turbo.eu (and the wiki)
- Routeplanning is nuanced and very subjective

OSM has many editors

- Cyclofix/MapComplete on the go
- iD for advanced editing
- JOSM for power users who are familiar with GIS
Ask for help to get started

OSM has many contributors

- We are a cool bunch, with all our interests
Nature, mobility, routeplanning, cars, shops,
which we put on our big, open map
- We welcome everyone who wants to help out or needs our data

Open Data is changing the world

- Improving our lives closeby
- Saving lives far away

Come and join us!