



Introducing OpenStreetBrowser 2.0

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Project Overview

- Started in autumn 2008
- Since spring 2010 working on version 2.0, released Wednesday this week
- Not totally alone: lesewesen (Webdesign), derstefan (code contributions, UX, Networking)
- “Categories” to browse map content
- Some interactivity: place markers, identify map objects, ...
- Version 2.0: Updating database, custom categories



Map View

OpenStreetBrowser 2.0

Wähle eine Kategorie, um den Karteninhalt zu durchstöbern oder klicke auf ein Objekt auf der Karte für Details

- Freizeit, Sport und Einkauf edit
- Dienste edit
- Kultur und Religion edit
- Transport edit
- Landwirtschaft und Industrie edit
- Orte edit
- Markerliste
- More categories

Anmelden
Legende | Optionen | Impressum | Spende

Kartendaten: cc-by-sa 2011-7-20 © OpenStreetMap-Mitwirkende | OSB: Stephan Hagemann und Mitwirkende 2016, 16.35597, 48.20478



Category View - Gastronomy

The screenshot shows the OpenStreetBrowser 2.0 interface. The browser window title is "OpenStreetBrowser" and the address bar shows "dev.openstreetbrowser.org". The main map area displays a street view of a city center with various buildings and streets. A sidebar on the left contains a map icon and the text "OpenStreet Browser 2.0". Below this, there is a section titled "Freizeit, Sport und Einkauf" (Leisure, Sport and Shopping) with a sub-section "Gastronomie" (Gastronomy). The "Gastronomie" section lists several establishments with corresponding icons: Osteria Numero Uno, Das Möbel, Donau Bar, Würstelstand beim Parlament, Cafeteria Ily, KEBAB & PIZZA WORLD, Top Kino Bar, Käuzchen, Spirali, and Spatzennest. The map area shows these establishments marked with icons. At the bottom of the sidebar, there are links for "Anmelden", "Legende", "Optionen", "Impressum", and "Spende". The bottom of the map area shows a scale bar (100 m, 200 ft) and copyright information: "Kartendaten: cc-by-sa 2011-7-14 OpenStreetMap-Mitwirkende | OSB: Stephan Piepelt und Mitwirkende 2016, 16.35434, 48.20319".

OpenStreet Browser 2.0

Wähle eine Kategorie, um den Karteninhalt zu durchstöbern oder klicke auf ein Objekt auf der Karte für Details

Freizeit, Sport und Einkauf

Gastronomie

- Osteria Numero Uno
- Das Möbel
- Donau Bar
- Würstelstand beim Parlament
- Cafeteria Ily
- KEBAB & PIZZA WORLD
- Top Kino Bar
- Käuzchen
- Spirali
- Spatzennest

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Category View – P.T. Routes

OpenStreetBrowser 2.0

dev.openstreetbrowser.org

Motorisierter Individualverkehr
Öffentlicher Verkehr
Einrichtungen
Routen

- U3: U3
- U2: U2
- 49: Hütteldorf → Dr. Karl Renner Ring
- 49: Dr. Karl Renner Ring → Hütteldorf
- Tram
- VRT: Vienna Ring Tram
- 46: 46
- 2: 2
- D: D
- 1: 1
- 13A

mehr
Haltestellen
Alternativ (Rad, Wandern, ...)

Anmelden
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Karten: 100 m
200 ft

Karten: cc-by-sa 2011-7-M OpenStreetMap-Mitwirkende | OSB: Stephan Piepelits und Mitwirkende
Permalink: 46, 16.35012, 48.20417



Object View

OpenStreetBrowser 2.0

dev.openstreetbrowser.org/#way_26587369

Burgtor

zur Übersicht zoomen

Tags

- building: yes
- layer: 2
- name: Burgtor
- tourism: attraction
- wikipedia:de: Äußeres_Burgtor_(Wien)

Wikipedia

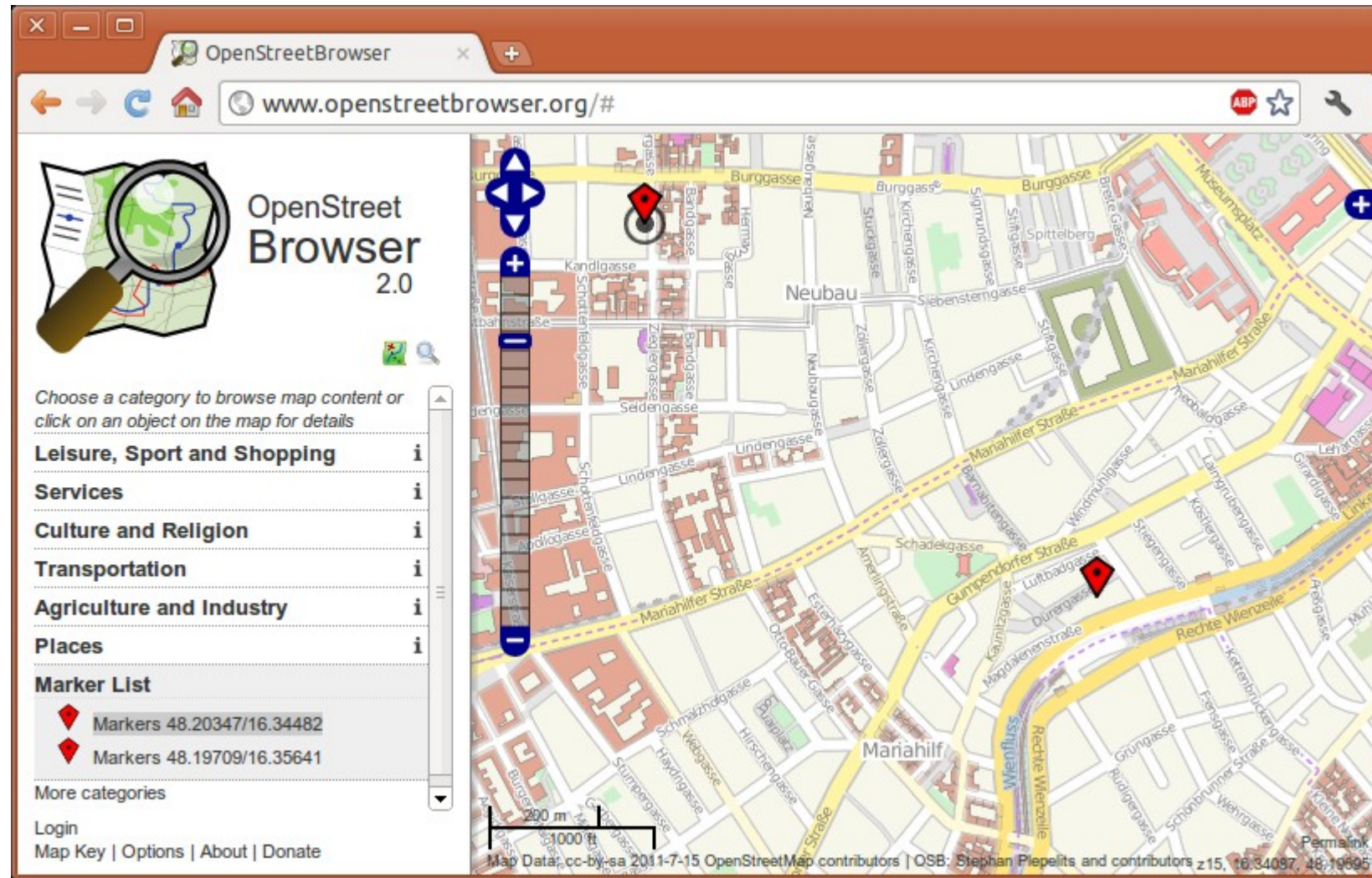
 Das Äußere Burgtor in Wien, früher auch "Äusseres Burgthor" geschrieben, liegt zwischen dem Heldenplatz und der Wiener Ringstraße (Burgring) und wird auch Heldentor genannt.

Anmelden
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Markers



<http://www.openstreetbrowser.org/#?mlat=48.20347,48.19709&mlon=16.34482,16.35641>



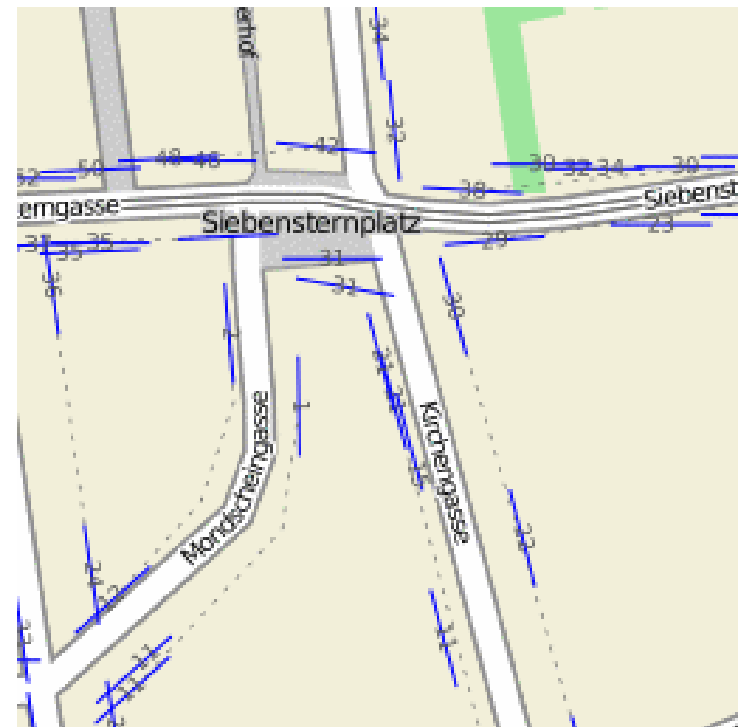
Technical Stuff

- Software:
 - Database: PostgreSQL 9.0 + PostGIS 1.5
 - Rendering: Mapnik 0.7.1, mod_tile, renderd
 - Browser API: OpenLayers 2.9
 - Osmosis 1.5.1 for updating database + stored procedure OsmosisUpdate
- Tables 'osm_point', 'osm_line', 'osm_polygon', 'osm_rel'.
Columns:
 - osm_id (string, e.g. 'node_1234')
 - osm_tags (hstore, e.g. 'amenity=>bar, name=>foo')
 - osm_way (geometry)
- 3 Servers:
 - miranda: keeping database up-to-date
 - greg: rendering base and public transport tiles
 - gnomi: main application and category tiles and interaction



Problem: Housenumbers

- Work-around for rotating TextSymbolizers





Problem: Symbolizer Style

- Use database values for symbolizer styles, e.g. color, rotation, width, ... everything :)
- Hopefully solved with Mapnik 2.0

```
<LineSymbolizer>  
  <CssParameter name="stroke-width">5</CssParameter>  
  <CssParameter name="stroke">[color]</CssParameter>  
</LineSymbolizer>
```



Problem: Advanced TextSymbolizer

- Idea:

↔ 49 ← 2, 13A → 13B

- Problems:

- Text gets turn-around, when road goes West → disable turning or specify “turn-text” (↔ 49 ← 13B → 2, 13A)
- Not possible to specify multiple colors



Summary: Mapnik Wishlist

- Database values for Symbolizer Styles
- Rotate (point) TextSymbolizers
- Alternative “Turn-Text”
- Multi-colored TextSymbolizers

Hopefully solved soon?



Outlook

- Version 2.1:
 - Navigation system (based on CloudMade API)
 - Save views/objects/routes/... as favorites
 - Viewer for GPX-files
 - Measure distances and areas on the map
- Ideas for later:
 - Download current object as GPX/KML/Shapefile
 - Download category for an area as GPX/KML/Shapefile
 - “My Maps” - draw things on the map (KML)
 - Layer-Menu, custom external layers



Thanks for your attention!

