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Seiteninformationen

• English • français • русский Hauptseite Die Karte This page is intended to collect all ideas concerning indoor mapping activities. Map Features Beitragende Inhaltsverzeichnis [Verbergen] Hilfe Blogs 1 Use cases

Indoor Mapping

Available languages — Indoor Mapping Other languages — Help us translate this wiki

Saerdnaer Indoor Proposal (Proposed features/indoor), Rendering (modified Kothic JS), Routing (modified OSRM, JavaScript UI with Leaflet)

Sutter Working on an indoor map editor Termite This effort has been discontinued.

• in some cultures base level is indicated by level 0, in other cultures ground floor is level 1 (or A).

• Gomar1985 Indoor Proposal (IndoorOSM), Rendering of multi-level building maps in 2D (http://indoorosm.uni-hd.de/๗) and 3D, Indoor Routing/Navigation (http://indoorosm.uni-hd.de/๗)

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5 Tagging 5.1 Tags in use 5.2 proposed Tags 5.3 Previous tagging proposals

6 Rendering 7 Routing 8 Devices / Technologies 9 Projects 10 Challenges 11 Places 11.1 Austria

11.1.1 Vienna 11.2 Germany 11.2.1 Bavaria 11.2.2 Baden-Württemberg 11.2.3 Berlin

11.2.4 Lower Saxony 11.2.5 North Rhine-Westphalia 11.2.6 Thüringen 11.3 Philippines 11.4 France

11.4.1 Isère 11.4.2 Paris 11.4.3 Chevilly 11.4.4 Velizy 11.4.5 Maincy 11.4.6 Pays de la Loire 11.4.7 Villeneuve d'Ascq 11.5 Swiss

11.6 Ukraine 11.6.1 Luhansk Oblast 11.7 Japan Use cases Indoor maps or information can be used for various applications, e.g.

Indoor Navigation/Routing

3D Visualization

 2D Maps Public Participation Emergency response

> Interested Amenities Display (e.g. Toilets, Fire Extinguisher, First Aid Box) for different venues, e.g.

 Airports Hotels Universities

 Schools Museums Train and subway stations Shopping Malls multi storey parking decks

The indoor/use cases page contains a list of venue use case examples, with sample maps from the venues. People Currently these users are working on indoor related topics: AddICT Compound facility (CompoundFacility)

other public buildings

• andreas.balzer Extension and aggregation of indoor proposals, see andreas.balzer, Rendering (own render engine in C#, yet to be published), Routing (modified OsmSharp) Xianlin NUS Indoor Map, Singapore

 http://forum.openstreetmap.org/viewforum.php?id=67 ₺ . Let's try to increase the communication in this project. --Andi 12:03, 3 October 2012 (BST)

There is now a new subforum for Indoor-Mapping:

in any case, <n> should be ascending (towards the sky).

conveying=yes/forward/backward/reversible

Communication

Talks FOSSGIS 2012: http://www.fossgis.de/konferenz/2012/programm/events/468.de.html
☑ Tagging

see Simple Indoor Tagging

Please see Tagging proposals for more detailed information level=n - indicates floor level; interpretation of the values varies (see key page) • <n> is usually an integer number, sometimes also one or two characters, sometimes combined (e.g. A,B,C,1,2,3).

Tags in use

• there are also usages reported where fraction numbers are used (e.g. level=2.5) indicating a "mezzanine" or "intermediate level" (e.g. intermediate stairway platforms). Room number and name is entered in the ref=* and name=* tag. • room=yes - see key wiki page for additional values to describe the type more detailed

• entrance=yes - room or building entrance capacity=* - number of seats in a room • highway=elevator - elevators • highway=steps - stairways

• highway=corridor - indoor ways indoor=yes - indicates any osm object being inside a room, a building (or both) or a shelter. • mandatory has to be discussed, I would prefer an outdoor=yes for the difficult cases. --Saerdnaer 16:48, 28 March 2011 (BST)

proposed Tags

Older ones: IndoorOSM CompoundFacility · Proposed_features/indoor Taging proposals more concerned with the 3D shape of the building:

Simple 3D Buildings

Previous tagging proposals

There are also some abandoned and inactive proposals (oldest last): * Termite#Indoor_Model * Relations/Proposed/Level Map * Relations/Proposed/Level

Routing . The altitude value of GPS devices could be used to identify in which level of a parking multi storey a car is located.

Rendering

Devices / Technologies · High sensitivity GPS device · Step counter

 Accelleration sensor . Counting the number of wheel turns in cars / Tachometer · Counting the number of floor tiles RFID

Compass

 WLAN Bluetooth Camera Audio footprint for rooms Laser rangefinder (e.g. Hector SLAM [1] ☑)

 http://indoorosm.uni-hd.de
 indoorOSM project from OSM data - a project of the University of Heidelberg Ways4All OSMTools Indoor: http://osmtools.org/indoor/#lat=51.09447&lon=17.01945&z=18 ☑

Projects

Indoor actives related to OSM:

• OpenLevelUp! & - A web viewer display indoor data level by level, written in JavaScript, supports both indoor=* and buildingpart=* tag schemes. GitHub repository &. former, inactive and on hold projects:

OpenCaveMap project under construction, need volunteers. It's caving mapping Opencavemap.org

and all other underground places

Places

Germany

Baden-Württemberg

Berlin Berlin Lower Saxony

North Rhine-Westphalia Aachen

Thüringen Ilmenau Philippines

 SM City San Pablo http://www.openstreetmap.org/?lat=14.071238&lon=121.30207&zoom=18
☑ France

Paris

Paris TGI

Isère

 Tribunal (partial for tourism) http://www.openstreetmap.org/#map=18/48.85591/2.34445 ☑ Paris Vème

Velizy Centre commercial Vélizy 2 (level 1) https://www.openstreetmap.org/#map=17/48.78179/2.22063 ☑ Maincy

Pays de la Loire

 Château de Chenonceau http://clement-lagrange.github.io/osmtools-indoor/#lat=47.32464&lon=1.07057&z=20&id_building=4055292&id_level=4055291 ☑

Swiss

Japan

 Rapperswil HSR Hochschule für Technik http://www.openstreetmap.org/?lat=47.2232387959957&lon=8.81700843572617&zoom=18

□ Ukraine Luhansk Oblast

 rise http://www.openstreetmap.org/?lat=35.612006&lon=139.628302&zoom=18&layers=M

□ Shibuya Hikarie Hikarie http://www.openstreetmap.org/?lat=35.65897&lon=139.70336&zoom=18&layers=M ☑ AKASAKA Biz Tower Kategorien: Indoor | Visual Impairment | Disabilities

Q

Hilfe

show

This won't be possible until someone invents a new GPS system that is a lot better at vertical accuracy. -- Cartinus (talk) 14:27, 24 June 2013 (UTC)

FootPath ☑, infrastructureless indoor navigation on OSM data for smart phones (Android) at COMSYS, RWTH Aachen University video ☑

 Termite - an editor specialized for indoor maps. This has been discontinued. http://andreas-hubel.de/ba/demo/
 if levelable indoor maps from OSM data implemented with Kothic JS • demo currently offline. See http://andreas-hubel.de/ba/ for implementation details and screenshots. There is also a virtual server image available which contains all software needed to run the demo. --Saerdnaer 19:35, 15 December 2011 (UTC) • It's now online again. See this screencast for more information (german): http://youtu.be/OSxU99sp0Gc & --Andi 11:40, 25 June 2014 (UTC)

• Fork of the previous one: https://github.com/clement-lagrange/osmtools-indoor @; demo here: http://clement-lagrange.github.io/osmtools-indoor/ @; fully functionnal indoor building browser, js only.

Activities outside OSM where moved to Indoor/Projects Challenges There is a discussion of challenges of adding indoor maps to OSM at Challenges_for_Indoor_Maps

Places with indoor coverage Austria Vienna

Bavaria Munich TUM Mathematics/Computer Science Department: http://www.openstreetmap.org/?lat=48.262437&lon=11.667689&zoom=18 ☑ Karlsplatz (Stachus): http://www.openstreetmap.org/?lat=48.13948&lon=11.566149&zoom=18 ₭ Hauptbahnhof: http://www.openstreetmap.org/?lat=48.141162&lon=11.56094&zoom=18 ☑

Südtiroler Platz [2] ☑ Project:Ways4All

 Passau Heidelberg Institut of Geography http://www.openstreetmap.org/?lat=49.418434&lon=8.677004&zoom=18&layers=M ☑

 Braunschweig Schloss-Arkaden and Schlosscarree http://www.openstreetmap.org/?lat=52.264004&lon=10.528049&zoom=18
☑

RWTH UMIC Research Center: http://www.openstreetmap.org/?lat=50.778834&lon=6.065266&zoom=18&layers=M ☑

 Technische Universität Ilmenau, Campus http://www.openstreetmap.org/?lat=50.682884&lon=10.937887&zoom=18&layers=M
□ · Los Baños, Laguna University of the Philippines Los Baños (various buildings) http://www.openstreetmap.org/?lat=14.16534&lon=121.24303&zoom=17 ☑ San Pablo City, Laguna

 Grenoble INRIA: http://www.openstreetmap.org/?lat=45.2182567119598&lon=5.80698251724243&zoom=18
☑ Paris XVème ECE-Paris (Eiffel 2) http://www.openstreetmap.org/#map=19/48.85183/2.28703 ₽

• ENS - Rue d'Ulm: http://clement-lagrange.github.io/osmtools-indoor/#lat=48.84171&lon=2.34483&z=18&id_building=2421756&id_level=4057538 ₺ Chevilly Centre commercial

 Château de Vaux-le-Vicomte http://clement-lagrange.github.io/osmtools-indoor/#lat=48.56574&lon=2.71422&z=21&id_building=3717068&id_level=3717067 ☑ Château de Talcy Partie visitable: http://clement-lagrange.github.io/osmtools-indoor/#lat=47.76948&lon=1.44502&z=20&id_building=4060148&id_level=4060147 ☑

Belle Épine http://www.openstreetmap.org/#map=17/48.75643/2.37142 ☑

Villeneuve d'Ascq Bâtiments du LIFL M3 extension http://www.openstreetmap.org/relation/3385027 ₺ http://clement-lagrange.github.io/osmtools-indoor/#id_building=3385027 ₺ M3 http://www.openstreetmap.org/relation/3440826 ₺ http://clement-lagrange.github.io/osmtools-indoor/#id_building=3440826 ₺

 Severodonetsk Futako Tamagawa rise

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