

п,

I am submitting a little larger pull request. I am not sure if its possible to be merged as is, but I did my best and will be happy to cooperate further to make it so.

I've been engaged in OpenStreetMap since 2008 and for the time being I've led many workshops, written some school works and worked on getting the Czech community together on openstreetmap.cz. Last summer I had to come up with a topic for my final engineer thesis, so I decided to use the effort already invested in indoor mapping and chose to update the iD editor accordingly. Let me elaborate...

Current work-in-progress proposal is called Simple Indoor Tagging. I didn't want to rely on WIP, so I realized there is already an accepted solution – the level=* tag.

There are two challenges for indoor:

- 1. making underlying background map (this is addressed by Simple Indoor's indoor=* area features)
- 2. display ways the accessibility of places and this kind of was the nature of OSM from the beginning. Until we had all the landuse=* areas, OSM started with highways + pois.

Drawing highways=* for indoor feels very natural – corridors usually repeats every floor even in multi-storey buildings, it displays clear accessibility information, can be already used for routing and also works with parking highways. The logic is also very simple - when a level=* feature is in viewport - show "Indoor" button, and let the user filter on these.

Several examples (my build):

- Shopping mall in Prague underground parking, main foot passages and few shops POIs
- University building in Aachen complete room plans with Simple Indoor (older proposal version with optional level=* xor repeat_on=*). Another building here.
- Berlin main railway station several underground floors + indoor=* features
- University campus Prague mapping in progress ;-)

Well, i think I made my point - let's discuss the technical background :-)

Some thoughts / questions:

- 1. Is it ok, to call it indoor mode? It doesn't fit with current "modes" terminology, where modes are exclusive.
- 2. I think the philosophy of iD is to show disabled buttons for "availible" actions. I chose to hide the button completely, where there isn't any level=* features on screen. Would you agree?
- 3. Current level=* allows only separate values by semicolon, I borrowed three useful tagging from SimpleIndoor. Is it ok to use these? Should i maybe make new official proposition?
 - ranges level=0-12 or -3--1 for features spaning several floors.
 - o repeat_on for repeating the same (possibly multilevel) feature on other floors ie. doors,toilets
 - min/max_level when set on building, the building spans through these levels. It helps as a visual cue, and also for the renderers.
- 4. I had to unclip the building-outline shape, because a building completely covered with indoor=* areas, couldn't be clicked anyway. Kind of addresses the issue #2225.
- 5. I submitted my original development commits, rebased to current master. Is it appropriate to squash the commits into one or few?
- 6. Although I tried to abide the current code style and wrote some test, tell me if i should change something globally. Easiest would be to comment the code in the specific commits...

Something to do in future

• if agreed, I would like to add level indicator as shown here https://github.com/zbycz/iD/wiki/devnotes-zbycz – but rather use another svg layer instead of filters.

- once proposition is accepted enable switching over floating point level values (ie. level=1.5). But even now any string value could
 be written in the level chooser, so it "works".
- add icon for 'highway=elevator and indoor=corridor+stairs=yes' as these had to be distinguished easily.
- Unfortunately I found later, I developed very similar changes as Panier's id-indoor fork. Although he added many more indoor presets, which could be eventually merged here.
- Create a level switcher in osmbuildings.org 3D viewer ;-) .. well, distant future indeed.

Changelog until now:

- added iD.ui.IndoorMode controlui
- added filtering using features.indoor_different_levels
- added .indoor-mode class for svg surface
- added general preset for indoor=* when indoor-mode enabled
- added several map styles for enabled .indoor-mode
- added indoor_levels as general field for building, using iD.ui.preset.range

btw, it was a pleasure to work with iD codebase, also d3 is so very amazing :-)

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zbycz added some commits on Mar 26 indoor: ui-control attempts aa11306 indoor: ui-control works, needs refactor 24cfd5e indoor: ui-control refactoring 57bead6 indoor: basic rendering 26c8a54 indoor: choose level of selected entitry d67fafa indoor: refactor event name c9bf632 indoor: hide building label-icons (added classes) 5fde1b6 indoor: fix build 757306a indoor: new objects with correct level 86a25e7 indoor: moved filter to features 493147d indoor: fix hiding building label c2a67fa indoor: better indoor-mode control with +c1he9e2 indoor: refactored filtering using features.indoor ca7ed19 indoor: fix showing relevant points 439753c indoor: fix default tags on new entities 7f53f2b indoor: level=* without whitespace bd8d92f 5f96d62 indoor: hidden lower buildings then "current level" indoor: hide surroundings for level < 0 3cd9ef3 04f19a1 indoor: supress losing selection when exiting indoor-mode indoor: level parameter in url e4d5f58 indoor: hide "building" icon for amenity 1fbad7f indoor: fix - correct hiding of vertexes aced1a4 indoor: mandatory level, optional repeat_on \cdots f2c9118 indoor: hide other buildings underground dbee347 indoor: translations 1719fc2 indoor: styles for underground view ddbd92a indoor: inspector - indoor_levels field + ui.preset.range 1309b18 indoor: refactoring context.indoor() to separate file 507878d indoor: show button when level=* feature in viewport 50d4d8d indoor: map redraw on event b5309d3 indoor: eslint ce1288f indoor: refactoring + codestyle 6a8a3ad indoor: style changes from user testing 4bacbdf indoor: add tests ✓ ce6de5c



bhousel commented 5 days ago

Wow, impressive work @zbycz! I really like this and would like to see this merged in some form.

I'll need some time to think about how to present the UI in a way that doesn't clutter things up too much.

I'll try to answer your questions now:

Is it ok, to call it indoor mode? It doesn't fit with current "modes" terminology, where modes are exclusive.

I think it's ok to call it indoor mode. (People will call it that anyway). You're right it's not technically a "mode" like the other exclusive drawing modes.

I think the philosophy of iD is to show disabled buttons for "available" actions. I chose to hide the button completely, where there isn't any level=* features on screen. Would you agree?

I'm leaning towards having the button smaller but available, maybe just an icon with tooltip, and it can transition open to reveal the indoor drawing controls when active. (I'm struggling with this same problem on #2699 - it's cool and useful, but where to put it?)

Current level=* allows only separate values by semicolon, I borrowed three useful tagging from SimpleIndoor. Is it ok to use these? Should i maybe make new official proposition?

ranges - level=0-12 or -3--1 for features spaning several floors.

repeat_on - for repeating the same (possibly multilevel) feature on other floors - ie. doors, toilets

min/max_level - when set on building, the building spans through these levels. It helps as a visual cue, and also for the renderers.

The right thing to do is to make a proposal and loop in the OSM tagging list. At this point, indoor editing is not solidly established, so I think you have a good chance of pushing the community in a sane direction.

I had to unclip the building-outline shape, because a building completely covered with indoor=* areas, couldn't be clicked anyway. Kind of addresses the issue #2225.

Makes sense.. Yes I agree that in "indoor mode" the building outline should not render as an area, as this covers up the indoor features.

I submitted my original development commits, rebased to current master. Is it appropriate to squash the commits into one or few?

It would be better to squash them into fewer commits, but I'm not super picky about this.

Although I tried to abide the current code style and wrote some test, tell me if i should change something globally. Easiest would be to comment the code in the specific commits..

I'll try to review it in more detail, but what I saw at a quick glance looks great! And the tests are much appreciated...



zbycz commented 4 days ago





Thanks, @bhousel!

I will make the proposal next week, in the meantime I am looking forward to your code comments Once we're done, I will sqash the commits in fewer.

ad button positioning) the more buttons, the more the user think how complex the software is (aka Norman: The design of everyday things) - and I think iD should stay "simple". But also its a bad practise for controls to disappear unexpectedly.

I completely agree with a smaller icon expanding to full control. What about placing Indoor-mode button in a dropdown menu "Tools" on the right of the top toolbar. It could be left closed forever, or left toggled opened. It would be a nice drawer for more useful tools in the future (including the #2699).



bhousel commented 3 days ago

OpenStreetMap on GitHub member



What about placing Indoor-mode button in a dropdown menu "Tools" on the right of the top toolbar. It could be left closed forever, or left toggled opened. It would be a nice drawer for more useful tools in the future

I've been playing around with making the UI more responsive and supporting something like a "drawer" for more commands or options on existing commands.

I don't really like it.. Maybe @samanpwbb has ideas?

The problem is it either bumps down the other things in the layout, or it overlaps them. So we'd either need to 1. position the other UI stuff differently or 2. be ok about having them move (eh) or 3. something else.







PanierAvide commented 1 day ago



I'm glad to see the opportunity of integrating indoor editing in main iD version. Feel free to reuse any custom part of iD-indoor, like presets or level parser (which handles lot of level-related tags);)

zbycz added some commits

-0-	indoor: fix decimal levels regexp + test	3f1803b
-0-	indoor: tagging - repeat_on means discreet values	3f5097b
-0-	indoor: refactor inRange() to indoor file	a57c92e
-0-	indoor: switching floors using decimal values (if exist)	5edb261
-0-	indoor: build english and presets	✓ b37ccca

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