



10 Years iD Editor

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The Road Ahead

How did we get here?



The Big Picture

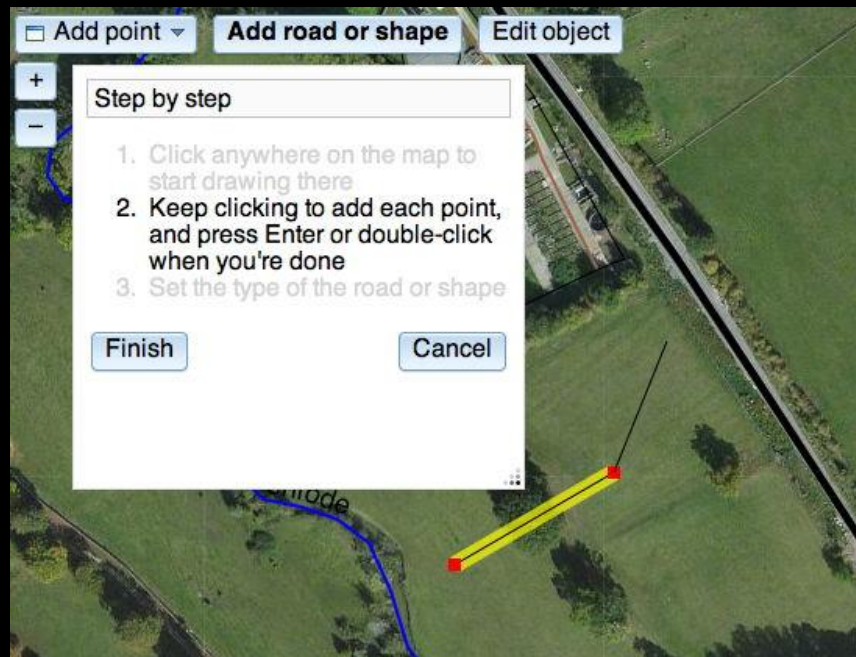
- 2012 Initial sparks, first prototype by Richard Fairhurst
- Grant from The Knight Foundation, development team at Mapbox takes over
- 2013 iD becomes the default map editor on osm.org
- Continued maintenance and development at companies (Bryan Housel, later joined by Quincy Morgan) and by the community
- 2020 OSMF started financially supporting development work on iD (Quincy Morgan, later Martin Raifer)



First Prototype

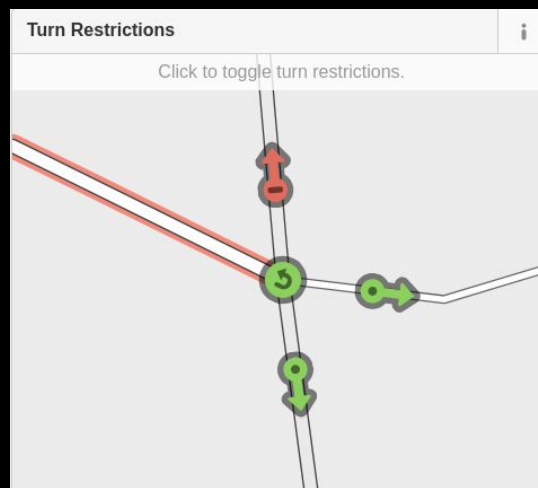
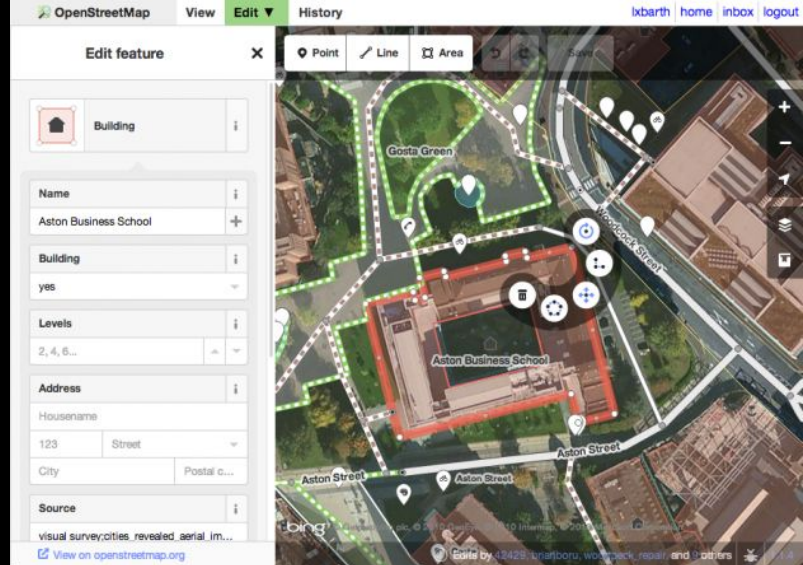
Presented July 2012

- To replace Flash-based Potlatch
- Goal: simple, friendly editor, suitable for beginners
- Showed that it is possible to implement in Javascript



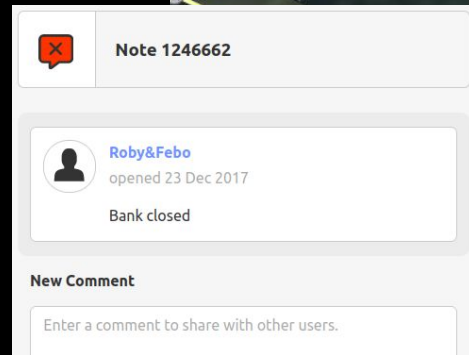
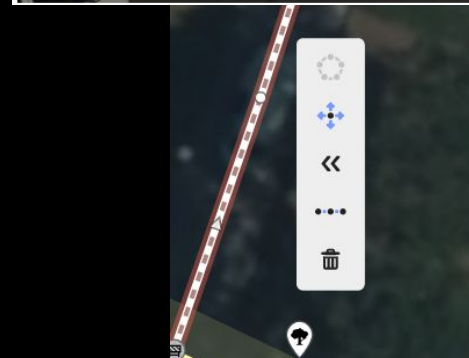
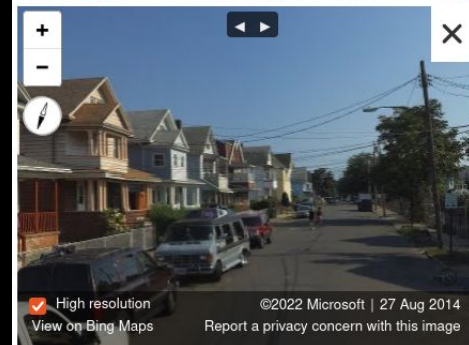
Milestones (1/3)

- v1.0 (May 2013) Available on osm.org
- v1.1 (Aug) Default on osm.org
- v1.2 (Mar 2013) editor-layer-index
- v1.3 (Oct) OSM GPX traces
- v1.4 (May 2014) Turn restriction editor
- v1.5 (Jul) Localized address fields
- v1.6 (Oct) Mapillary support
- v1.7 (Feb 2015) Copy-paste feature
- v1.8 (Nov) Choose “best” imagery
- v1.9 (Mar 2016) Save button colors



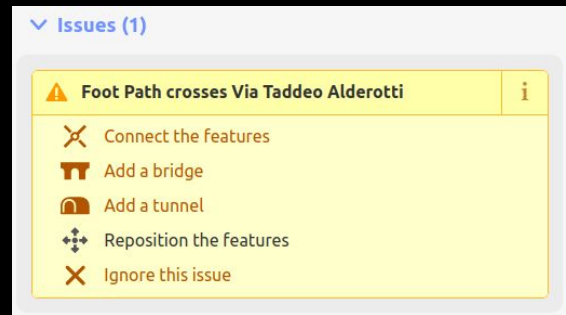
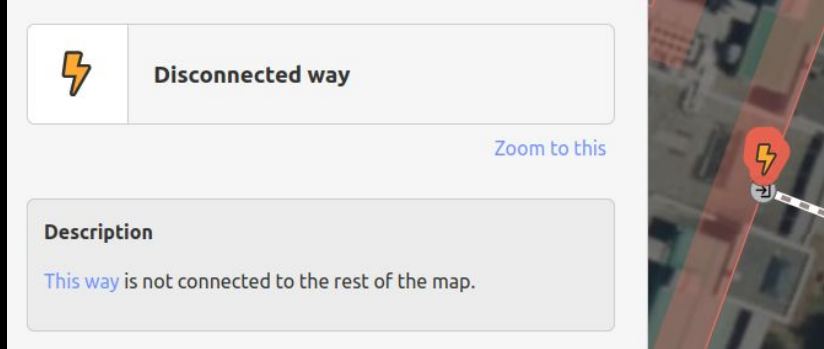
Milestones (2/3)

- v2.0 (Nov 2016) JS code modularized
- v2.1 (Feb 2017) KML/GeoJSON support
- v2.2 (May) Right click menu; new walkthrough
- v2.3 (Jul) Info Panels
- v2.4 (Aug) Source input when saving
- v2.5 (Nov) OpenStreetCam (now KartaView)
- v2.6 (Jan 2018) Prevent invalid geometries
- v2.7 (Mar) Basic WMS support
- v2.8 (Apr 2018) Local communities shown after save
- v2.9 (Jun) Bing Streetside support
- v2.10 (Jul) OSM Notes support



Milestones (3/3)

- v2.11 (Aug) Vector tile data layers
- v2.12 (Dec) Name suggestion index
- v2.13 (Jan 2019) Keepright integration
- v2.14 (Feb) Validation; ImproveOSM integration
- v2.15 (May) More Validation
- v2.16 (Oct) Mapillary auto-detected features
- v2.17 (Dec) Auto-fix missing intersections
- v2.18 (Jul 2020) Touch inputs; multi selection; Osmose
- v2.19 (Oct) Street level photo filtering
- v2.20 (Jul 2021) Presets externalized in own repository
- v2.21 (Jun 2022) Drop IE11 support; new build system; OAuth2





Milestones (4/3)

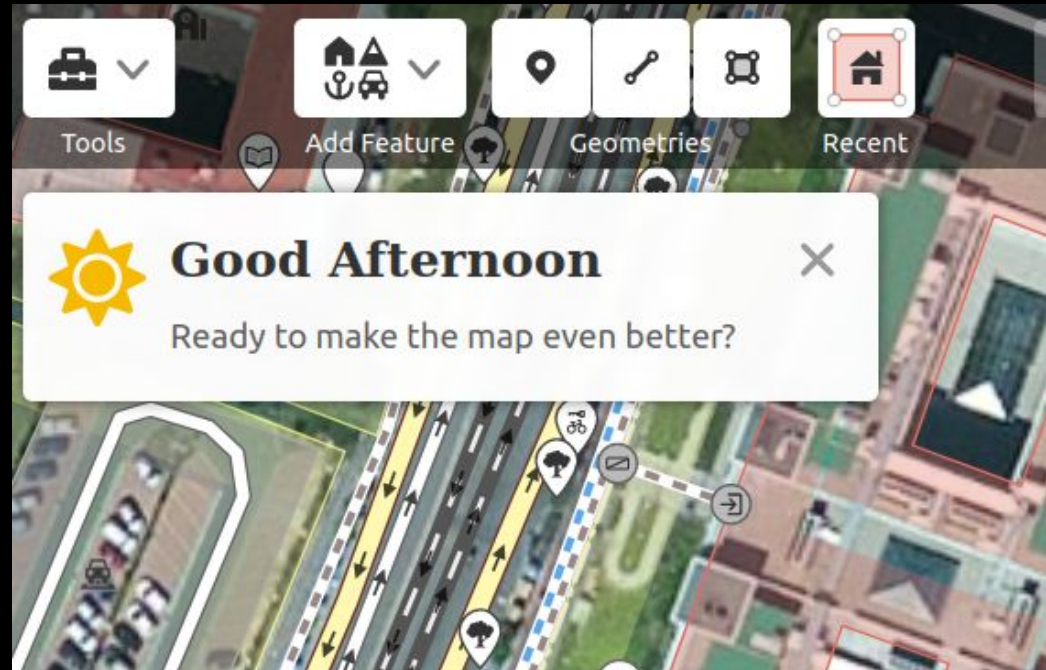
Playground with all version milestones:
<https://id.raifer.tech/sotm-2022/>



Milestones (5/3)

v3-prototype (~2019)

Redesigned user interface

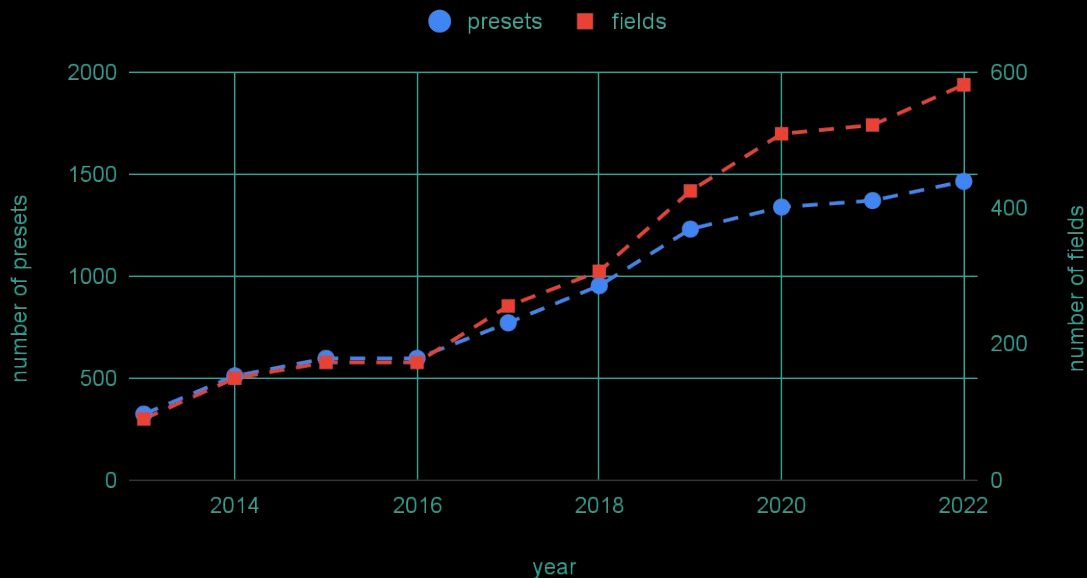




Presets

- How iD sees the world
- Got more fine grained over time

Number of presets and fields known to the iD editor





Bumpy Road?

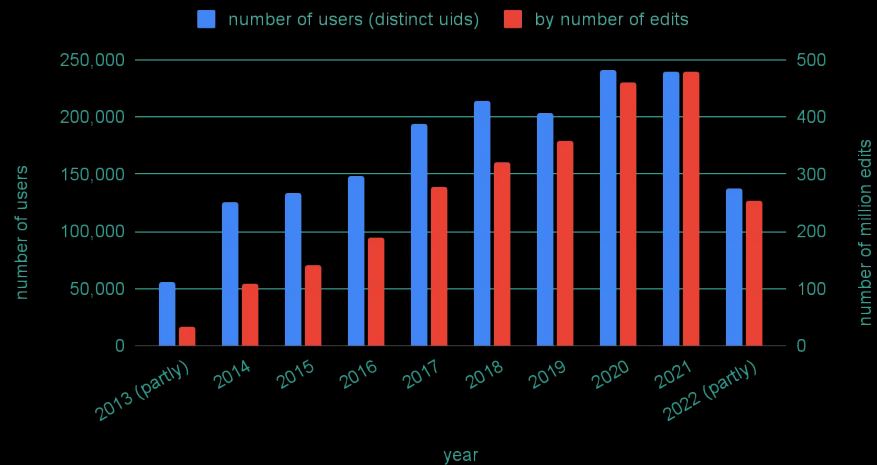
- Controversies about tagging
- Editor layer index
- Forks: not always easy to contribute back improvements
- ...



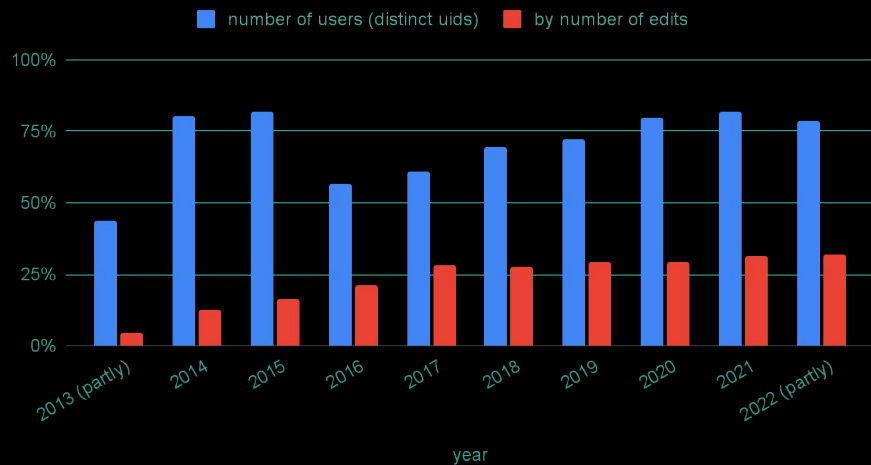
Usage Stats



number of users (distinct uids) and by number of edits



relative number of users (distinct uids) and by number of edits



Source: https://wiki.openstreetmap.org/w/index.php?title=Editor_usage_stats&oldid=2371590

The Road Ahead

- iD is the first mapping experience of many contributors
- It should remain friendly and simple to use

How can we make iD fit for the next 10 years? Will there be shifts in mapping patterns?

- What devices are people using?
- What data do people want to map?
- Which mapping patterns become important?
- How can we keep existing map data up to date?



The Road Ahead: 1. Accessibility

- Provide alternatives to mouse-central input
- Better keyboard based mapping
- Screen reader + Voice input
- High contrast mode
- ...



The Road Ahead: 2. Customizability

- Map styles for specific mapping tasks
- User supplied presets
- Reusability of the code
- Plugins?
- ...



The Road Ahead: 3. Performance

- Quicker map rendering
- Faster startup
- Load less data
 - background imagery
 - regional presets
- Progressive web app?
- ...



The Road Ahead: 4. Mapping Experience

- Mapping should be a delightful experience.
- Focussed editing tools
 - Building tool
 - Refine geometries mode
 - Clone tags operation
 - Area splitting tool
 - Opening Hours editor
 - ...
- Preset favourites
- ...



The Road Ahead: 5. Map Gardening

Tasks that become more relevant when a region is well mapped.

- Identify potentially outdated data (map features, attributes, etc.)
 - `check_date`
- Native support for lifecycle prefixes
- Refining of existing data (geometries, attributes)
- ...

The Road Ahead: What is missing?

BoF session after the lunch break in room 101.

Thanks to everyone who contributed to the project!



1ec5, 51114u9, aaditya0000, abalosc1, Abbe98, abdeldjalil09, ajithranka, ajlomagno, alexandrz, alphagamer7, althio, AndreasHae, andrewharvey, Andygol, animesh-007, ankit-m, arch0345, arka-nitd, arunasank, bagage, bencostamagna, Bertware, bhousel, Binnette, BjornRasmussen, bjornstar, bkil, blackboxlogic, Bonkles, boothym, brandonreavis, briandaviddavidson, brianegge, brianhatchl, brianreavis, brokemyspoke, bvercelli99, CarycaKatarzyna, castriganoj, cbeddow, chadrockey, chrisklaiber, cicku, CloCkWeRX, dakotabenjamin, danieldegroot2, danielsjf, danielwu830, david082321, demonshreder, Dgleish, dieterdreist, Dimitar5555, dobratzp, DzikowskiW, ebrelsford, edpop, enighter, ENT8R, Eric-Sparks, evansiroky, ewnh, faebebin, fakeharahman, fdr, ferdibiflator, ferdinand0101, flacombe, FloEdelmann, frewsxev, FrikanRw, fritrue, furkanmutlu, gaoxm, geohacker, gileri, grischard, guillaume, guillaumep, guyarad, guylamar2006, hackily, HandyHat, haroldb, harry-wood, hchho, henningvs, henry4442, hikemaniac, hkirat, hodigabi, HolgerJeromin, homersimpsons, humanforklift, huonw, iandees, irevenko, iriman, JackNUMBER, jaller94, JamesKingdom, jay-manday, jdhoek, JeeZeh, jfirebaugh, jgravois, jgscherber, jguthrie100, jharpster, jleedev, jleh, jmespadero, jonahadkins, jonnybarnes, jonsger, jtracey, kamicut, karmanya007, Kazing, kepta, kepta, @peterneubauer, kjonosm, koaber, kratico, creed, kriscarle, k-yle, kymckay, LaszloEr, leegenes, leighghunt, LorenMueller, ltog, lucymk, Lukas458, M1dgard, MaciejWWojcik, manfredbrandl, mapmeld, marracci, matkoniecz, maxgrossman, mbrickn, mbrzakovic, mchlp, mertemin, mikelmaron, mikenath223, mikini, miladkdz, MindFreeze, MKuranowski, mmd-osm, mojdna, murray, moshen, mstn, n42k, nadyafebi, natfoot, Natsuyasumi, nchristensen, Nekzuris, nickplesha, Nimisha94, nisargshh, nlehuby, Nmargolis, nnodot, NopMap, nyurik, obama, octagonal, ogbeche77, PaulAnnekov, paulklie, Pengor, peterneubauer, peternewman, pgraud, planemad, programistka, Psigio, pwelby, quincylania, quotquot, ramyaragupathy, rasagy, Raubraupe, rbuffat, renancleyson-dev, rene78, ricloy, riQQ, rivermont, rkost, RoPP, rory, rowanhogan, RudyTheDev, samanpwbb, samely, SatyaSudheer, scaidermern, scottdejonge, SeanBarber, SelfishSeahorse, sguinetti, s-Hale, shawnaparadee, simonbilskyrollins, simonpoole, skorasaurus, slhh, slibby, Stalfur, SteevenBosse, Stenive, Stormheg, stragu, sulfo, sun-geo, systemed, tanerochris, TAQ2, tastrax, Teiron, teymour-aldridge, TheAdventurer64, theffthisa, TheGreenToaster, thibaultmol, thomas-hervey, Thue, til-schneider, tmcw, ToastHawaii, ToeBee, tohaklim, tomhughes, tordans, tpetillon, ttomasz, tyrsad, umarpreet1, vershwal, Vonter, wcedmisten, westnordost, Wikiwide, willemarcel, wonga00, wopfel, wvanderp, Xavier-J-Ortiz, xmile1, YuliyaVeklicheva, yvecai, yyazdi13, zengchu2, Zverik, zymurgie

And all translators, bug reporters, feature requesters, beta testers, etc.