

Using MapRoulette to Strengthen Communities

Martijn van Exel, SOTM US 2024

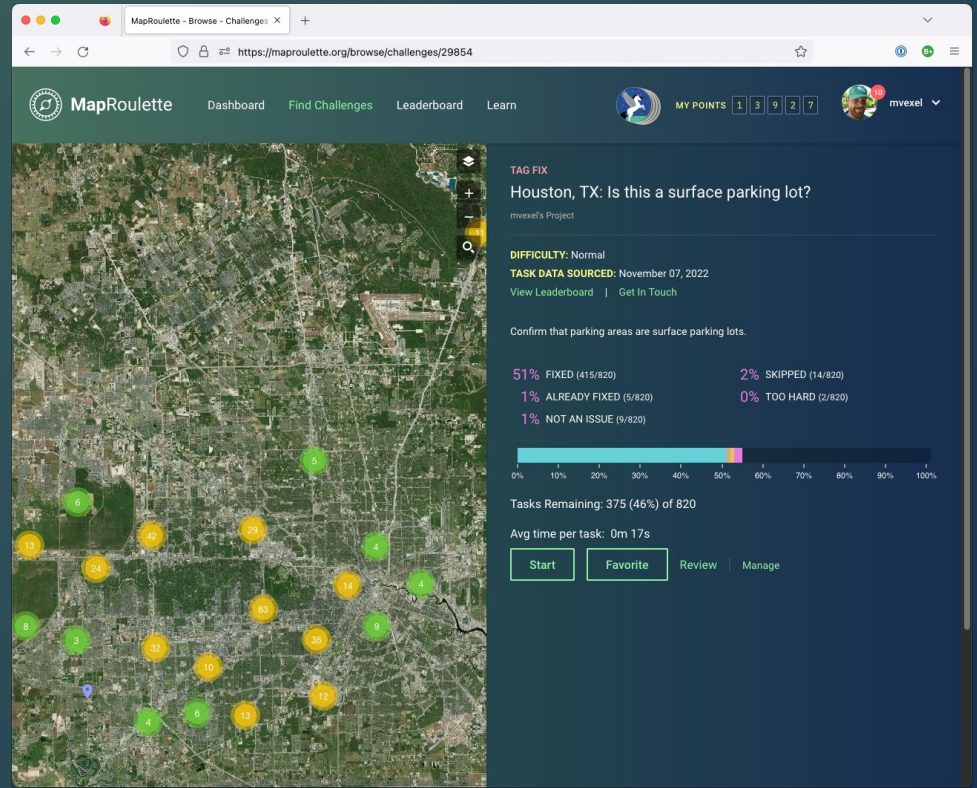
- 1 12 years of Feedback
- 2 Some Cool Challenges
- 3 Getting Started with Your Community!



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MapRoulette on Mastodon: @maproulette@en.osm.town

About MapRoulette

- Web Application to **share and solve small OSM mapping Tasks**
- **Everyone is a creator**
- Powerful Coordination tools for Communities and organizations



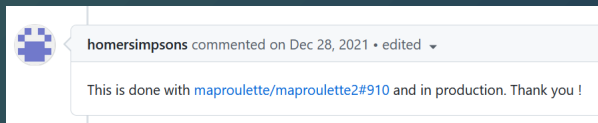
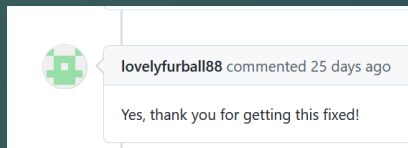
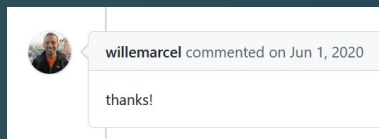
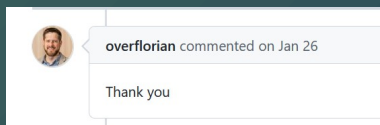
The screenshot displays the MapRoulette web application interface. The browser address bar shows the URL <https://maproulette.org/browse/challenges/29854>. The navigation bar includes the MapRoulette logo, a dashboard icon, and links for "Find Challenges", "Leaderboard", and "Learn". The user profile "mvexel" is visible in the top right corner with a "MY POINTS" counter showing 1, 3, 9, 2, 7.

The main content area features a satellite map of Houston, TX, with several numbered task markers (1-15) overlaid. The task details on the right include:

- TAG FIX:** Houston, TX: Is this a surface parking lot?
- DIFFICULTY:** Normal
- TASK DATA SOURCED:** November 07, 2022
- Confirm that parking areas are surface parking lots.**
- Progress:** 51% FIXED (415/820), 2% SKIPPED (14/820), 1% ALREADY FIXED (5/820), 0% TOO HARD (2/820), 1% NOT AN ISSUE (9/820)
- Tasks Remaining:** 375 (46%) of 820
- Avg time per task:** 0m 17s
- Buttons:** Start, Favorite, Review, Manage

MapRoulette in Numbers

- **12 years** of MapRoulette operation
- **2** new major versions, **237 releases**, **800** closed issues
- **10,000** changesets since June 1, **242,000** since Jan 1, **613,000** in 2023

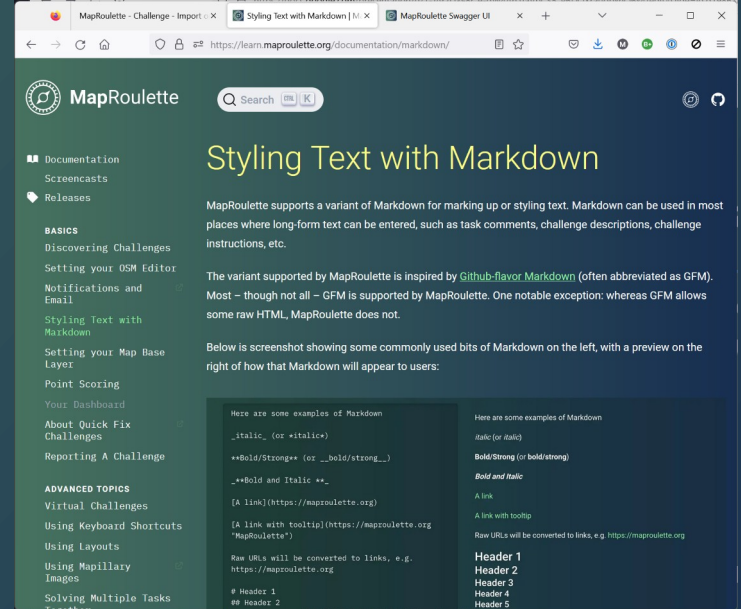


- 124 Open ✓ 166 Closed
- ✓ **Changeset comment not included**
#977 by angoca was closed on Sep 27
- ✓ **"Unable to render the map: No value provided for variable {zoom}. Attent**
#967 by tordans was closed on Sep 27
- ✓ **geojson upload not recognized because of right hand rule, despite using**
#963 by PCClimate was closed on Sep 27
- ✓ **Provide link to relation/way if area is too large**
#946 by double-a was closed on Sep 27
- ✓ **OSM notes as challenges**
#945 by Binnette was closed on May 19
- ✓ **History panel shows wrong element**
#943 by tordans was closed on Sep 27
- ✓ **[FEATURE REQUEST] Allow users to prioritize challenges with cooperative**
#919 by tsmock was closed on Nov 2, 2021
- ✓ **Swagger docs are down**
#913 by r/R79435 was closed on Sep 10, 2021
- ✓ **Bounding boxes applied to challenge through API are not applied to imp**
#908 by atiannicelli was closed on Dec 11, 2021
- ✓ **[bug] Unable to upload tasks using the /vs/tasks API after latest release.**
#895 by atiannicelli was closed on Jun 7, 2021
- ✓ **Feature request: Task/Challenge descriptions point to markdown URL**
#892 by herriotto was closed on May 19
- ✓ **MR server failing**
#874 by matkoniecz was closed on Jan 28, 2021
- ✓ **Overpass Challenge with Timeout > 120s**
#842 by boldtrn was closed on Oct 21, 2020
- ✓ **wiki home page should link to maproulette3 docs**
#833 by donalhunt was closed on Sep 9, 2020
- ✓ **JsonValidationError when creating virtual challenge**
#829 by shawat94 was closed on Aug 20, 2020

Mapper Feedback

2013: “We love the task-based style of work, but we wish we could make our own!”

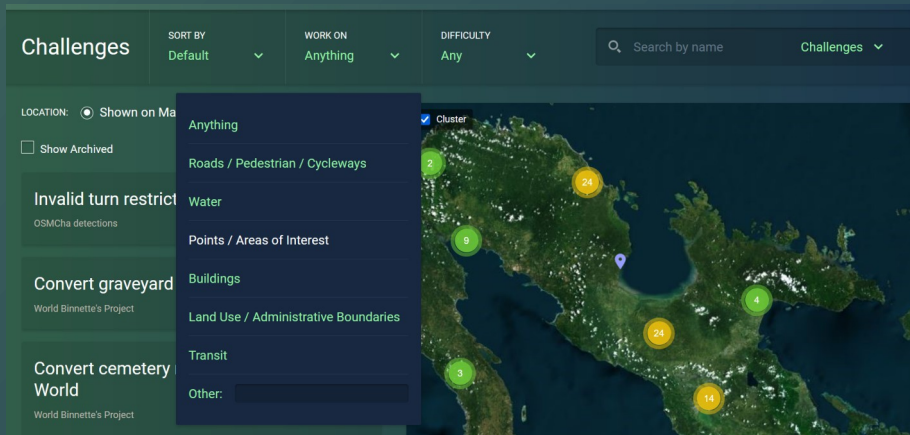
- **Challenge Wizard** introduced in MapRoulette 3.0
- Extensive **documentation**, Online **tutorials**, talks



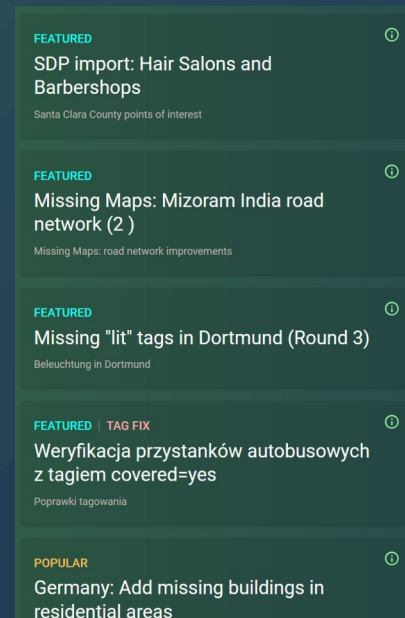
Mapper Feedback

2016: “We like that there are so many challenges now, but they are hard to find!”

- Advanced **searching** and **filtering**
- Browsable **task map**



The screenshot shows the 'Challenges' interface on a dark theme. At the top, there are filters for 'SORT BY' (Default), 'WORK ON' (Anything), and 'DIFFICULTY' (Any). A search bar is present with the text 'Search by name' and a dropdown menu for 'Challenges'. Below the filters, the 'LOCATION' is set to 'Shown on Ma' and there is a 'Show Archived' checkbox. A list of challenge categories is visible on the left, including 'Invalid turn restrict', 'Convert graveyard', and 'Convert cemetery World'. A dark filter menu is open over the map, listing categories: 'Anything', 'Roads / Pedestrian / Cycleways', 'Water', 'Points / Areas of Interest', 'Buildings', 'Land Use / Administrative Boundaries', 'Transit', and 'Other:'. The map shows Europe with several colored circles (green, yellow, orange) indicating challenge locations.



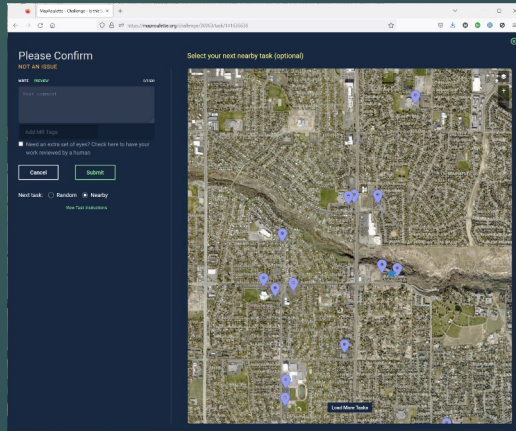
The screenshot shows a list of challenges on a dark theme. Each challenge entry includes a status label (FEATURED or POPULAR), a title, and a subtitle. The challenges listed are:

- FEATURED**: SDP import: Hair Salons and Barbershops (Santa Clara County points of interest)
- FEATURED**: Missing Maps: Mizoram India road network (2) (Missing Maps: road network improvements)
- FEATURED**: Missing "lit" tags in Dortmund (Round 3) (Beleuchtung in Dortmund)
- FEATURED** | **TAG FIX**: Weryfikacja przystanków autobusowych z tagiem covered=yes (Poprawki tagowania)
- POPULAR**: Germany: Add missing buildings in residential areas

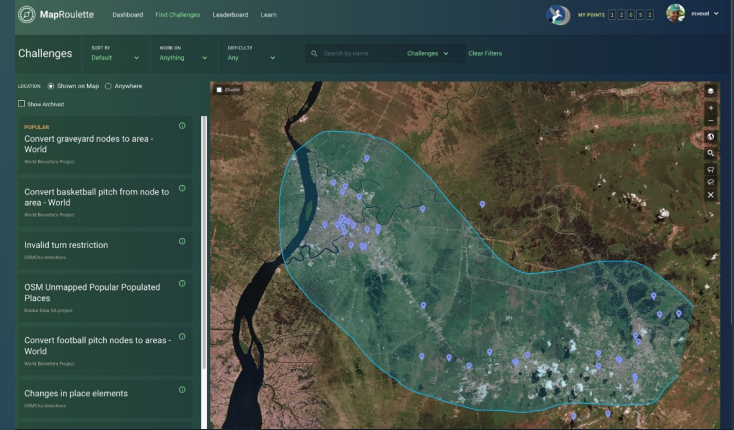
Mapper Feedback

2018: "There are too many tasks, I would like to just work on tasks close to me!"

- **Virtual** Challenges
- **Local Knowledge Only** Challenges
- Next task: **Nearest** instead of Random



Select your next task from a map of nearby tasks



A virtual challenge being created

REQUIRES LOCAL KNOWLEDGE



Yes No

Set "Local Knowledge Required" when creating a Challenge

Mapper Feedback

2018: “We want MapRoulette in our own Language!”

- **Transifex** project: **28** languages with translators
- **Documentation** localization added in 2024

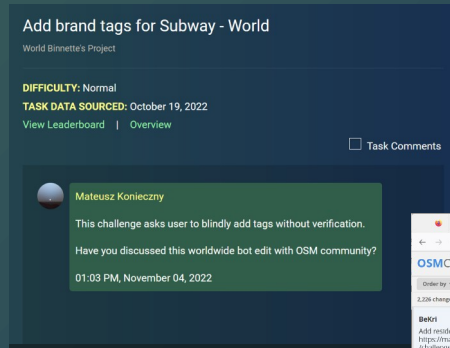


Mapper Feedback

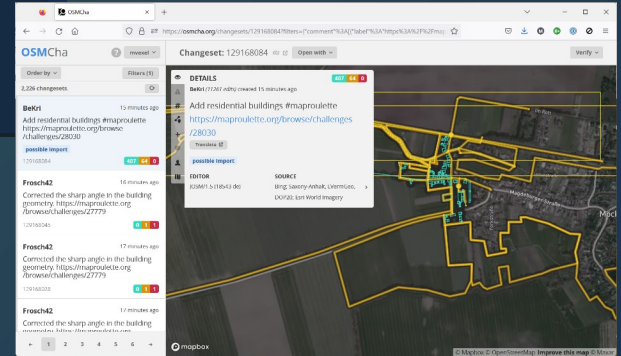
2020: “MapRoulette is causing *Bad Edits*, *BAN MAPROULETTE!*”

- Comment on Challenges
- Email address for Creators
- Limits to number of Tasks
- Automatic Archiving
- Peer Review
- Challenge Link in Changeset

Trust Remains Our Top Priority



Discussion about a Challenge

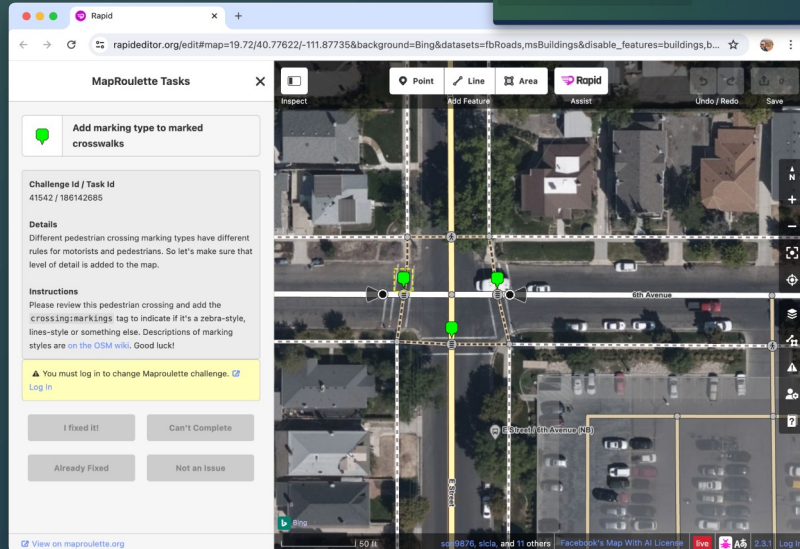
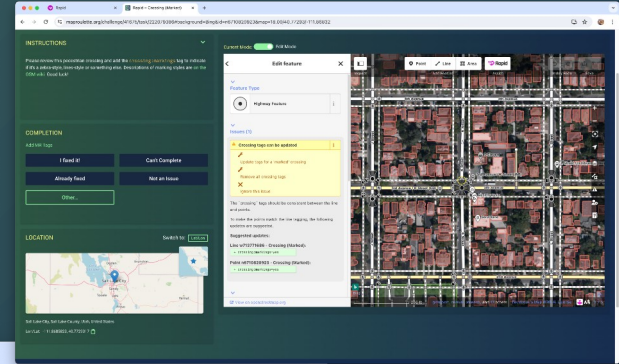


Links to MapRoulette Challenge URL in Changeset

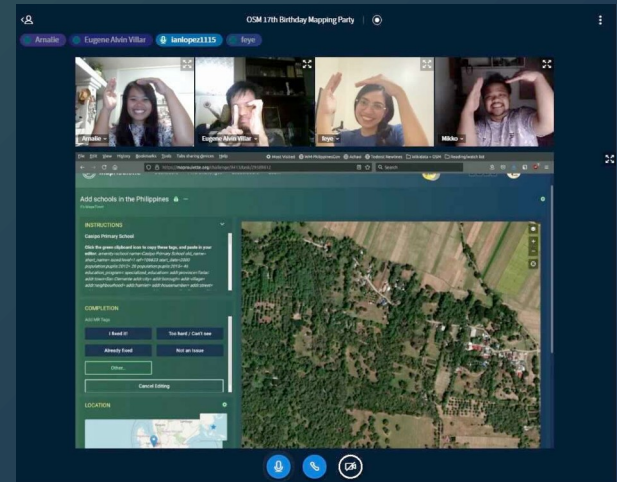
Mapper Feedback

2024: "I want to see MapRoulette tasks in my editor!"

- **Rapid** adds MapRoulette tasks display
- MapRoulette adds Rapid as a built in editing Environment
- iD editor, to follow..
- JOSM plugin available



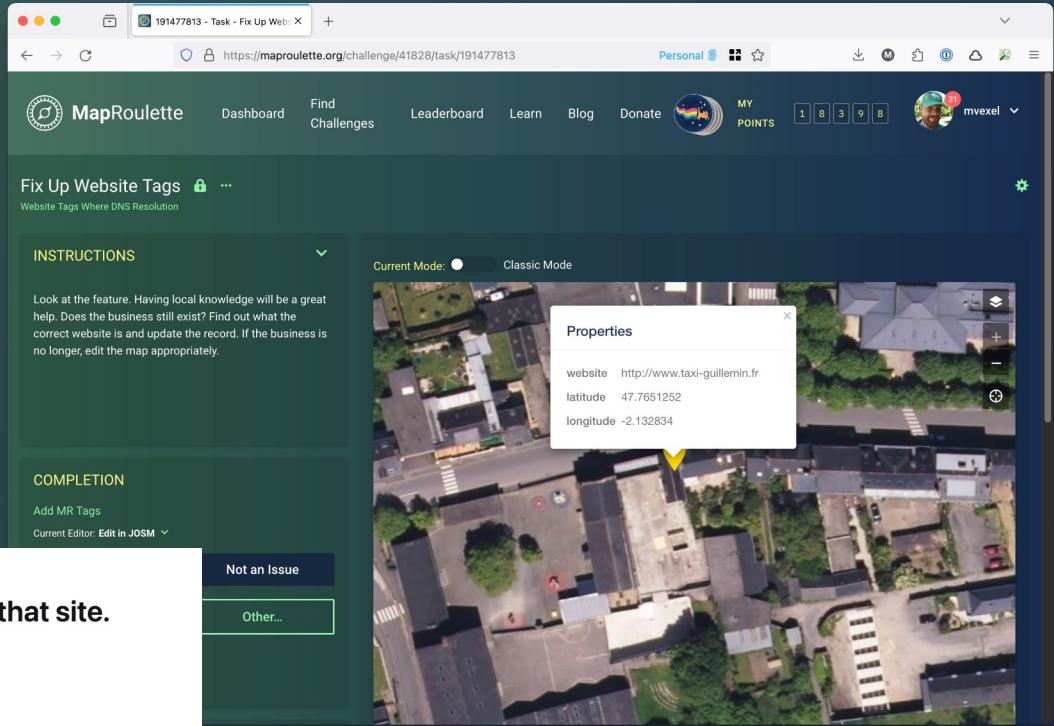
MapRoulette for your local Community



Examples

How mappers like you engaged their local AND global community peers to help fix and improve OSM!

1. update businesses based on broken websites.



The screenshot shows the MapRoulette interface. The browser address bar displays the URL <https://maproulette.org/challenge/41828/task/191477813>. The page title is "Fix Up Website Tags" with a lock icon and a menu icon. Below the title, it says "Website Tags Where DNS Resolution".

INSTRUCTIONS

Look at the feature. Having local knowledge will be a great help. Does the business still exist? Find out what the correct website is and update the record. If the business is no longer, edit the map appropriately.

COMPLETION

Add MR Tags
Current Editor: [Edit in JOSM](#)

Current Mode: Classic Mode

Properties

website <http://www.taxi-guillemin.fr>
latitude 47.7651252
longitude -2.132834

Not an Issue
Other...

Hmm. We're having trouble finding that site.

We can't connect to the server at www.taxi-guillemin.fr.

If you entered the right address, you can:

- Try again later
- Check your network connection
- Check that Firefox has permission to access the web (you might be connected but behind a firewall)

Examples

How mappers like you engaged their local AND global community peers to help fix and improve OSM!

2. Remove spammy business descriptions.

MapRoulette Dashboard Find Challenges Leaderboard Learn Blog Donate

MY POINTS 1 8 3 9 9 mvexel

Spammy business descriptions 4

Friendly_Ghost's Project

INSTRUCTIONS

Tags that could be considered spam, like `image` tags that refer to company logos and `description` tags that are just corporate spam, can usually be removed without any problem.

Be sure to check the tags for relevant information that can be tagged in a different way, like contact details or main features of a business.

In many cases information of the brand can be added or retagged under the `brand:*` tagging scheme.

COMPLETION

Add MR Tags

Current Editor: Edit in JOSM

Edit Not an Issue

Skip Other...

LOCATION

Switch to: Lat/Lon

description

Welcome to Port City Tattoo in Costa Mesa, where vision meets reality. We're committed to delivering the highest quality of tattoos to our clients, no matter the style. Our talented team of artists will work with you to bring your unique idea

Description

Welcome to Port City Tattoo in Costa Mesa, where vision meets reality. We're committed to delivering the highest quality of tattoos to our clients, no matter the style. Our talented team of artists will work with you to bring your unique idea to life. Wit

Description

San Marino Retirement Community offers independent living and assisted living services in Westminster, CO. At San Marino, retirement is different. We take pride in our community, which serves as a haven for seniors.

Description

If you are looking for the best year-round indoor amusements in the Norwood, Silverton, Deer Park, and Cincinnati areas, Urban Air Trampoline and Adventure Park will be the perfect place. With new adventures behind every corner, we are the ultimate indoor

Examples

How mappers like you engaged their local AND global community peers to help fix and improve OSM!

3. Properly map previously imported features.



A screenshot of the MapRoulette web interface. The browser address bar shows the URL: https://maproulette.org/challenge/43751/task/226214337. The page title is "Convert Reservoir Nodes to Areas (US)". The interface includes a navigation bar with "MapRoulette", "Dashboard", "Find Challenges", "Leaderboard", "Learn", "Blog", and "Donate". The user's profile "mvexel" is visible in the top right corner. The main content area is divided into three sections: "INSTRUCTIONS", "COMPLETION", and "LOCATION". The "INSTRUCTIONS" section contains three steps: 1. Utilize aerial imagery as a reference to accurately draw the outline of the water body. 2. After creating the area, merge the original "landuse"="reservoir" node with the newly drawn area. 3. Remove the original "landuse"="reservoir" tag and replace it with the "natural"="water" and "water"="reservoir" tags. The "COMPLETION" section has buttons for "Edit", "Skip", "Not an Issue", and "Other...". The "LOCATION" section shows a "Switch to: Lat/Lon" button and a small map view. On the right side, there is a large map view showing an aerial image of a reservoir with a blue location pin. The map view includes zoom controls (+, -, and a circular icon) on the right side.

Create Your Project

- A MapRoulette Project is the new home for your Mapping Community
- You can create as many Projects as you want!
- Once you have your Project, you can add more **managers**

Every Manager can add and delete challenges, see project metrics, and add more managers. You can also add “read only” project managers. Mappers don’t need to be members to participate

MapRoulette Dashboard Find Challenges Leaderboard Learn Blog Donate

MY POINTS 1 8 3 9 8 mvexel

Create & Manage / New Project

Featured
 Yes No

Featured projects are shown on the home page and top of the Find Challenges page to bring attention to them. Note that featuring a project does **not** also feature its challenges. Only super-users may mark a project as featured.

Display Name*
Colorado Mine Mappers

Displayed name of the project

Discoverable
 Yes No

Once your project is made Discoverable, all Challenges under it that are also set to Discoverable will be discoverable/searchable by other users. If your project is not Discoverable, then no challenges in it will be treated as discoverable regardless of their settings. Note, however, that all projects and challenges are considered public and – even when Discoverable is off – users can still view your project or challenge if they have a direct link to it.

Description

Description of the project

Virtual
 Yes No

PROJECT MANAGERS

Add Project Manager

akadouri

mvexel

Choose Role
Read
Write
Admin

Creating Your Challenges

I am going to skip over a lot of the details – JOIN my workshop tomorrow to learn the nuts and bolts!



Become a Master MapRoulette
Challenge Builder

Saturday, June 8, 2024 2:00 pm



Martijn van Exel

State
of the
MapUS



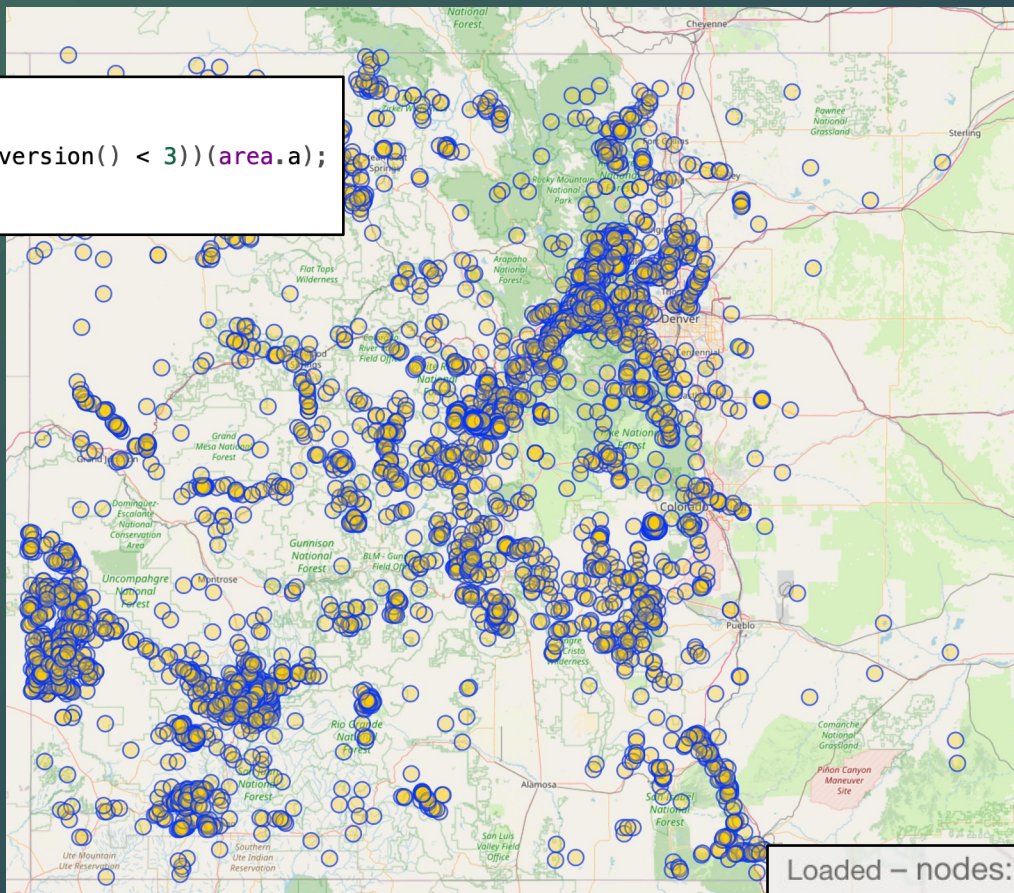
“Mines”



GNIS mine nodes imported long ago as **landuse=quarry**. The vast majority of these nodes are of historic relevance only. If you're lucky there will be an old mine shaft like this one here! (It was blocked with a metal grate, unfortunately.. Probably for the best.)

```
rel(161961);map_to_area->.a;  
(  
  node["landuse"="quarry"](if(version() < 3))(area.a);  
);  
out geom;
```

So
Many
“Mines”
!!

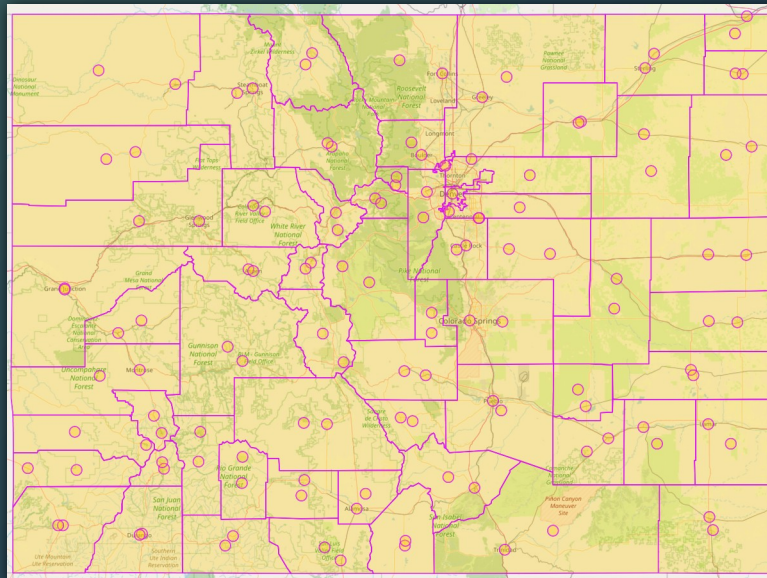


Loaded – nodes: 6470, ways: 0, relations: 0
Displayed – pois: 6470, lines: 0, polygons: 0

Divide and Empower Strategies in MapRoulette

Cloning: Create a challenge for one county, then clone it. All you have to do is replace the name and relation ID in the Overpass query.

```
rel(161961);map_to_area->.a;  
rel[boundary=administrative][admin_level=6](.a);  
out meta geom;
```



CHALLENGES

Search

- Check old "Mine" nodes
- Clean Up Old Mine Nodes - Jackson County CO (40 Total Tasks)
- Clean Up Old Mine Nodes - Routt County CO (112 Total Tasks)
- Clean Up Old Mine Nodes - Bent County CO (2 Total Tasks)
- Clean Up Old Mine Nodes - Las Animas County CO (79 Total Tasks)

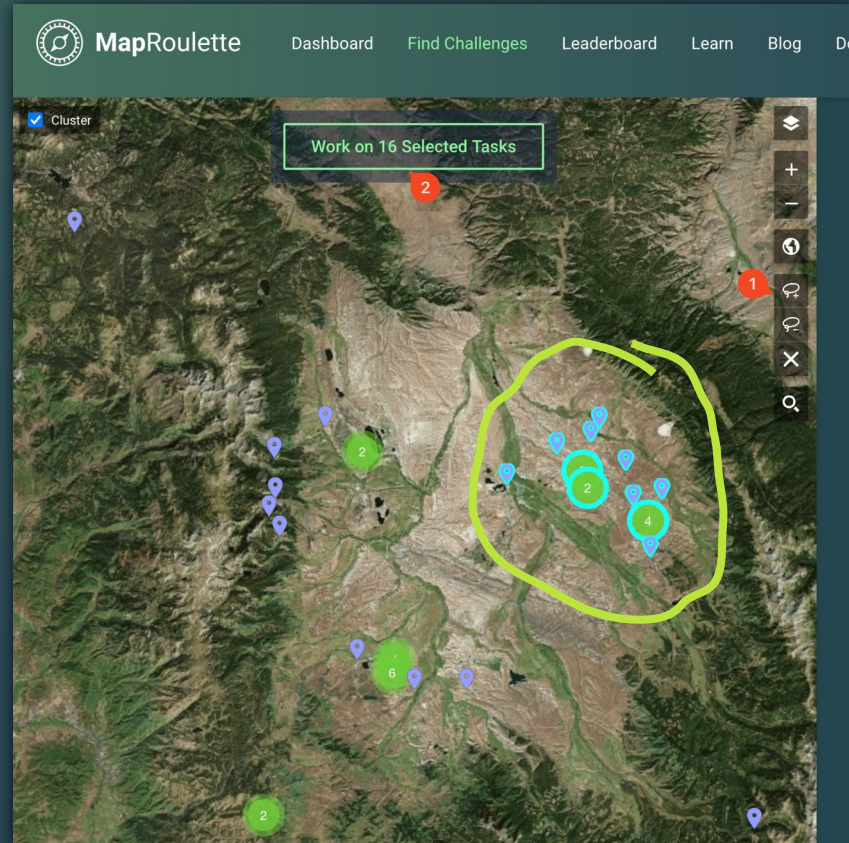
name	_id
Jackson County	415167
Routt County	415168
Prowers County	415767
Baca County	415769
Bent County	415781
Las Animas County	415785
Plata County	416515
Montezuma County	416516
Colores County	416521
San Juan County	416522
Gunnison County	416905
Chaffee County	416906
Pitkin County	416907
Kiowa County	417649
Costilla County	421120
Montrose County	421142
Park County	439376
Summit County	441008
Clear Creek County	442310
Hinsdale County	443690
Mineral County	443692
Saguache County	1411313
Kit Carson County	1411314
Moffat County	1411315
Archuleta County	1411316
Huerfano County	1411317
Washington County	1411318
Elbert County	1411319
Crowley County	1411320
Broomfield	1411321
Phillips County	1411322
Larimer County	1411323
Morgan County	1411324
Rio Grande County	1411325
Cheyenne County	1411326
Jefferson County	1411327
Pueblo County	1411328
Lake County	1411329
Lincoln County	1411330
Teller County	1411331
Rio Blanco County	1411332
Gilpin County	1411333
Weld County	1411334
El Paso County	1411335
Yuma County	1411336
Boulder County	1411337
Douglas County	1411338
Denver	1411339
Garfield County	1411340
Mesa County	1411341
Conejos County	1411342
Otero County	1411343
Logan County	1411344
Ourray County	1411345
Adams County	1411346
Custer County	1411347
Sedgwick County	1411348
Fremont County	1411349
Alamosa County	1411350
Arapahoe County	1411351
Eagle County	1411352
Grand County	1411353
Delta County	1411354
San Miguel County	1411355

Divide and Empower Strategies in MapRoulette 2

VIRTUAL CHALLENGE:

In the main Challenge window, use Lasso tool to select an area to work on.

Great for mapping parties!



Share your Project!

You are now **ready to host** your Mapping Project! You can edit the Project to make it publicly visible or **share the Project link** to a limited group.

Now...

Let's Map Together!

The screenshot displays the 'Create & Manage' interface for the 'OpenStreetMap Utah' project. At the top, there are navigation buttons: 'Add Challenge', 'Edit Project', 'Delete Project', and 'Archive Project'. The main content is divided into several sections:

- PROJECT MANAGERS:** Shows the 'Add Project Manager' section with a search bar for 'OpenStreetMap username' and a dropdown for 'User'. A manager named 'mvexel' is listed with the role 'Admin'.
- COMPLETION PROGRESS:** A progress bar shows the overall status: 13% FIXED (1614/12153), 2% ALREADY FIXED (184/12153), 0% NOT AN ISSUE (33/12153), 0% SKIPPED (25/12153), and 0% CAN'T COMPLETE (31/12153). Below the bar, it states 'Tasks Remaining: 10,266 (84%) of 12,153' and 'Avg time per task: 4m 6s'.
- LEADERBOARD:** Includes a 'Past Year' filter and radio buttons for 'Mappers' and 'Reviewers'.
- CHALLENGES:** A list of challenges with search and action icons. The challenges include:
 - Motorway Links without Lanes in Utah (977 Total Tasks)
 - Clean up name_1 in Salt Lake City (218 Total Tasks)
 - Clean up TIGER - Weber County, Utah (88 Total Tasks)
 - Clean up TIGER - Garfield County, Utah (58 Total Tasks)
 - Clean up imported "quarries" in Utah (502 Total Tasks)
 - Retag imported "Quarry" nodes to historic=mine (589 Total Tasks)
- COMMENTS:** A comment from 'mvexel' at '08:26 PM, October 21, 2023' regarding the challenge 'Motorway Links without Lanes in Utah'. The comment text is 'added ramp detail'.

Thanks!

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