

# Contributing to OpenStreetMap

# Contributing to OSM

- Creating an account
- A few rules
- The dataflow through the ecosystem
- The datamodel
  - Points
  - Lines
  - Surfaces
  - Searching tags on the wiki

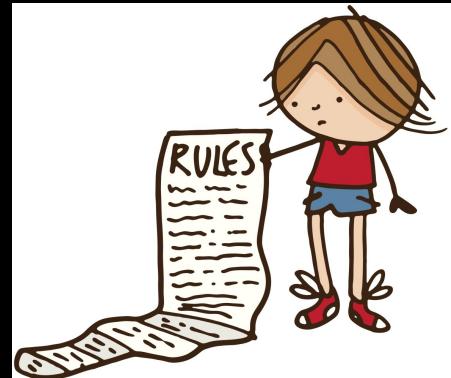




A few rules

# OSM uses the Open Database License (ODbL)

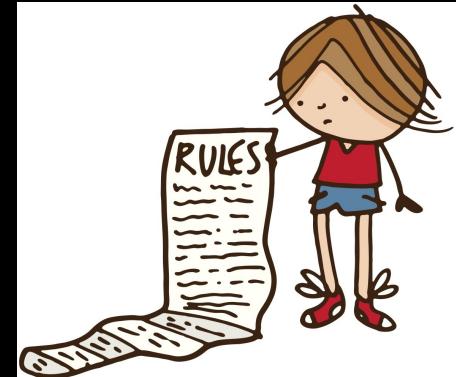
- All data can be used by anyone (including commercially)
- But with an obligated **attribution**
- You can use OSM as background layer with **proprietary data** on top... but not **mix proprietary data with OSM** (or you open them up)
- Redistributing with **DRM** is not allowed

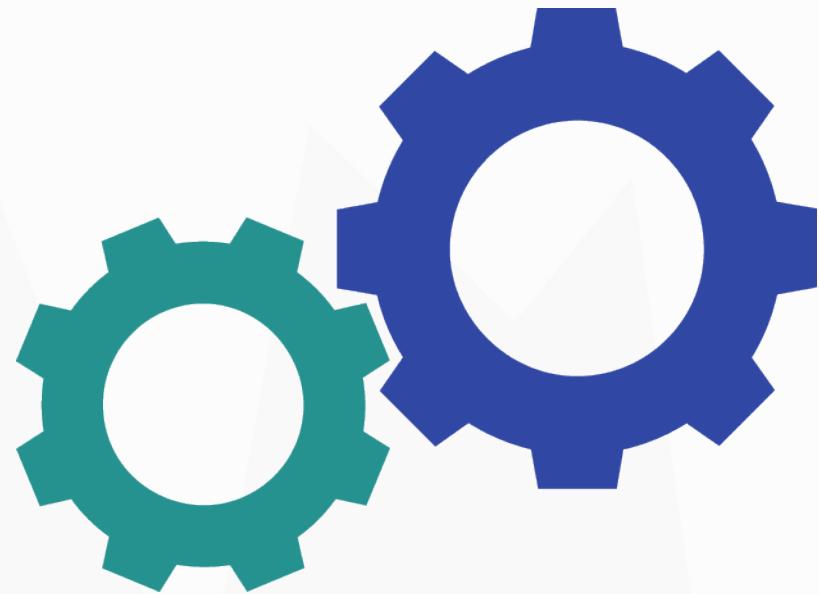


# Editing OSM

## Three rules

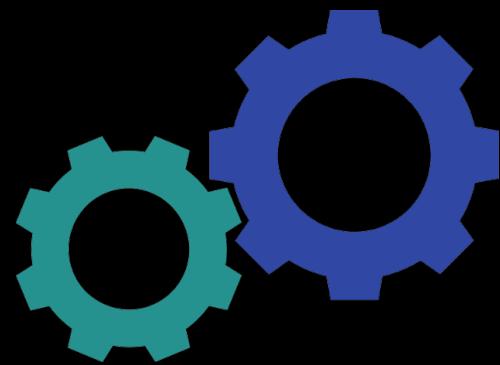
1. Only add what can be verified **on the ground**
2. Do **not add copyrighted data**  
don't copy other maps, unless with permission
3. **Dare to edit**  
use common sense  
make mistakes – everyone did  
ask help if needed



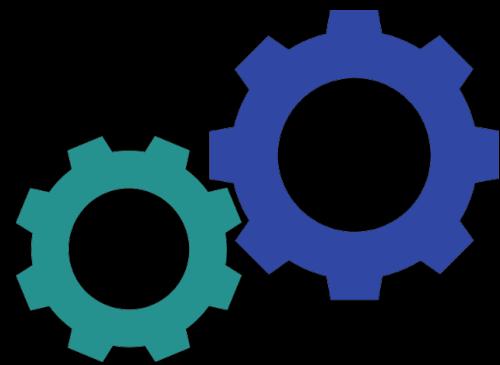
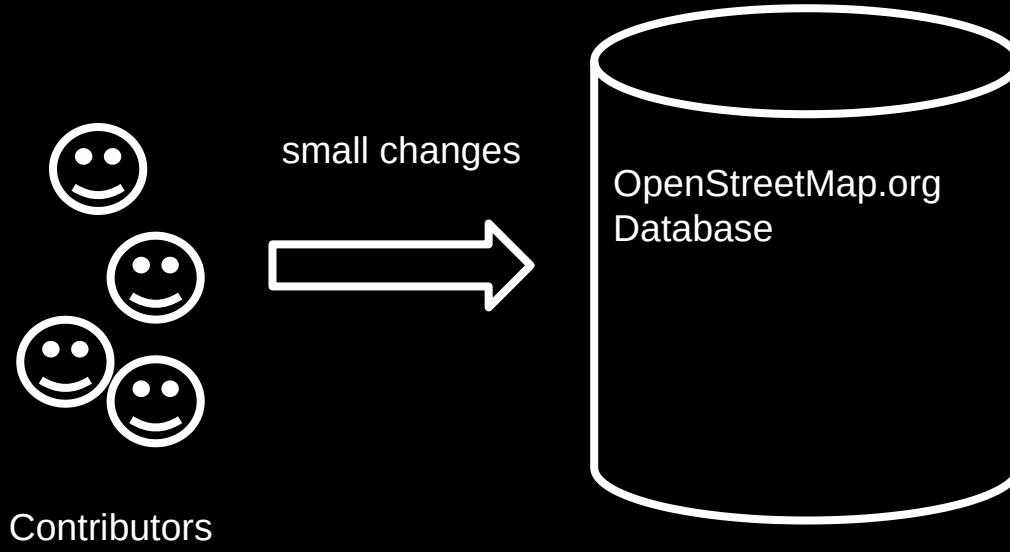


# OSM-infrastructure

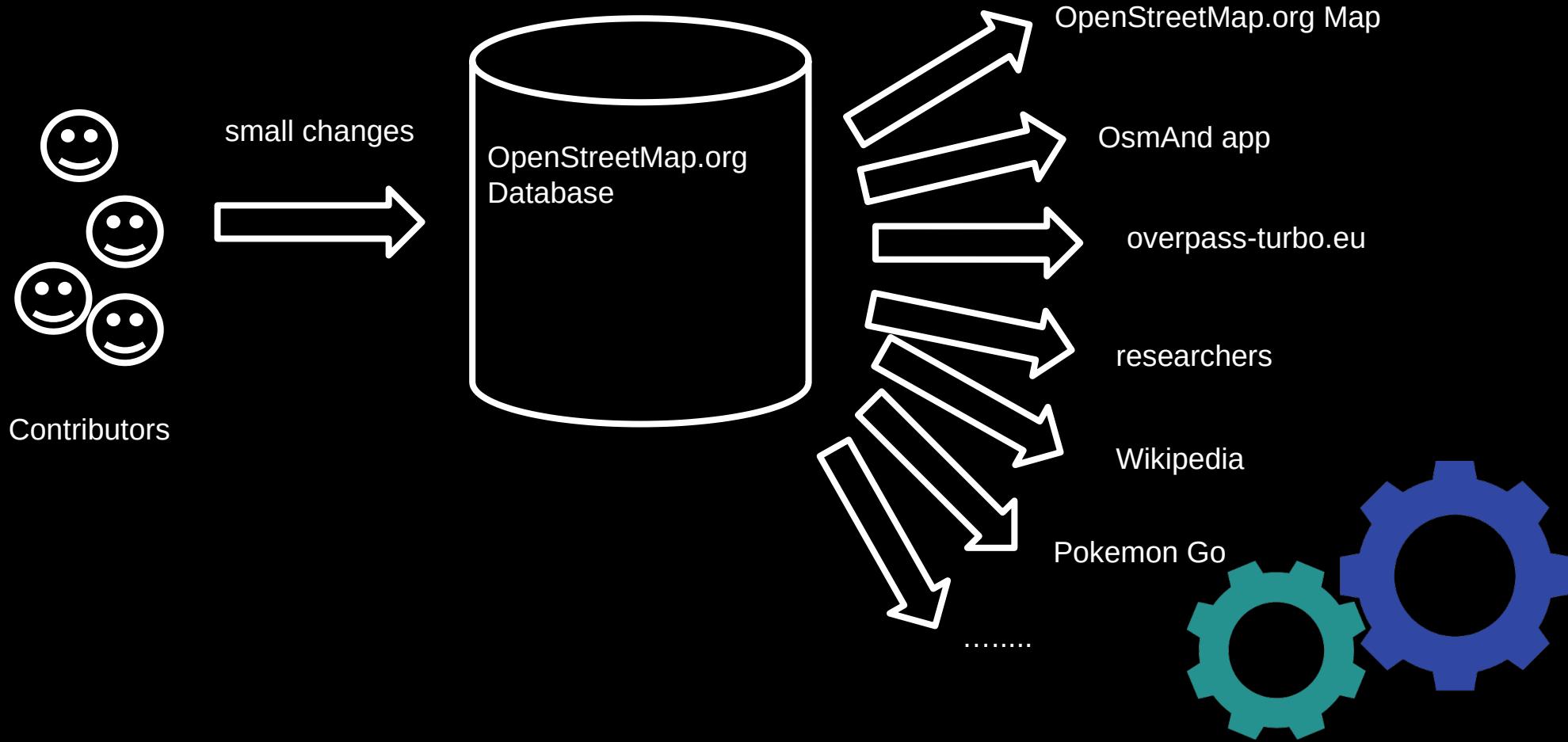
# Dataflow



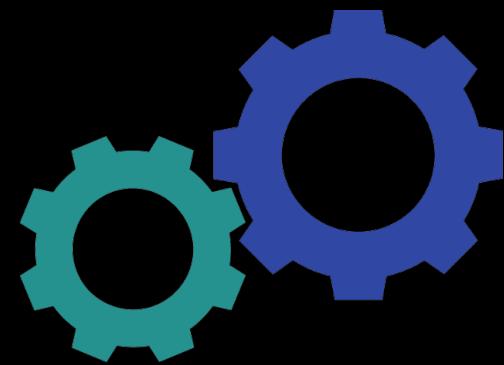
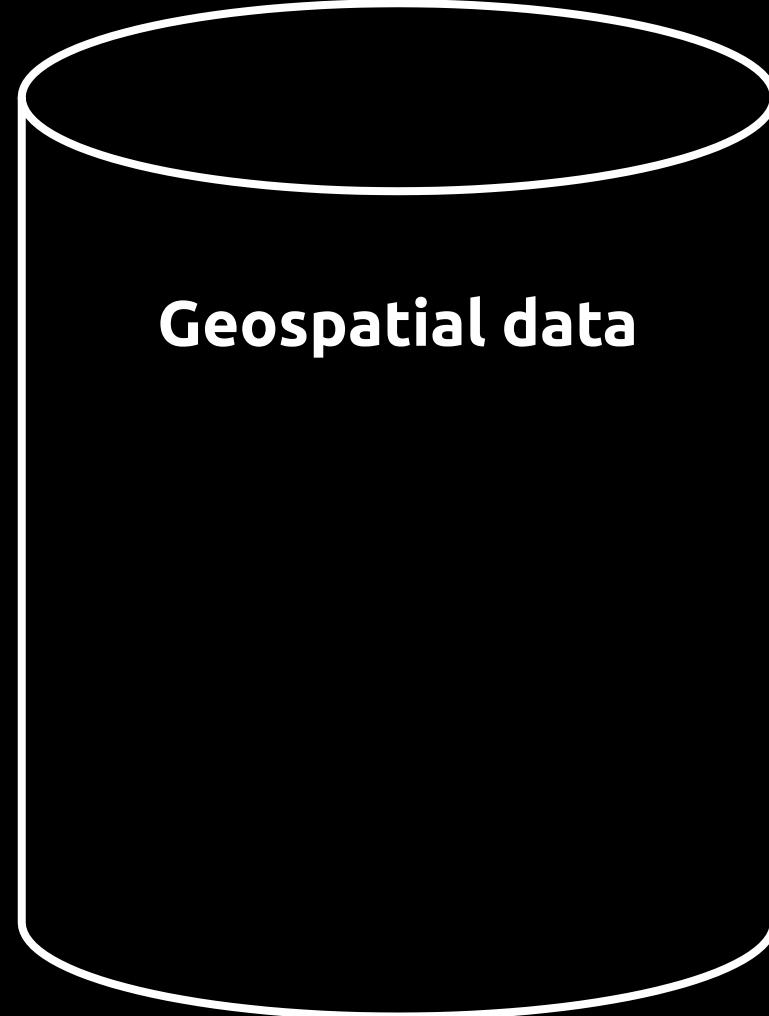
# Dataflow



# Dataflow



# Database



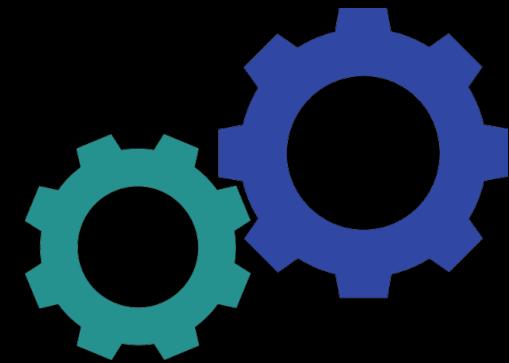
# Database

**Geospatial data**

**Dots and lines**

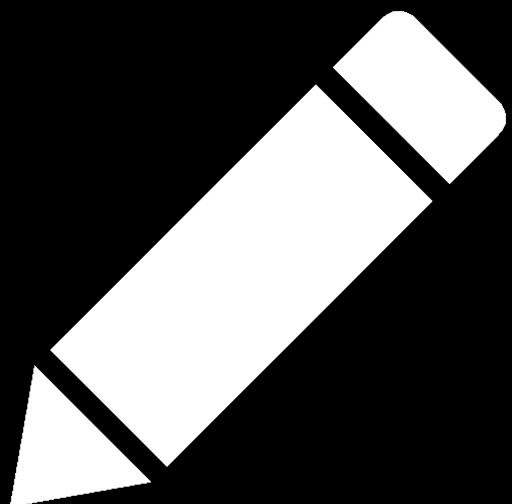
+

metadatdata:  
what does a point/line  
represent?

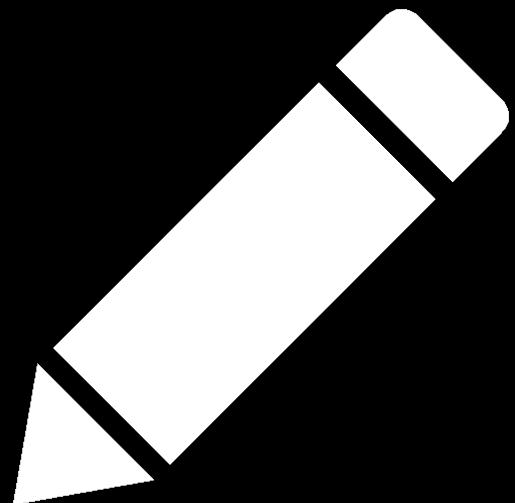
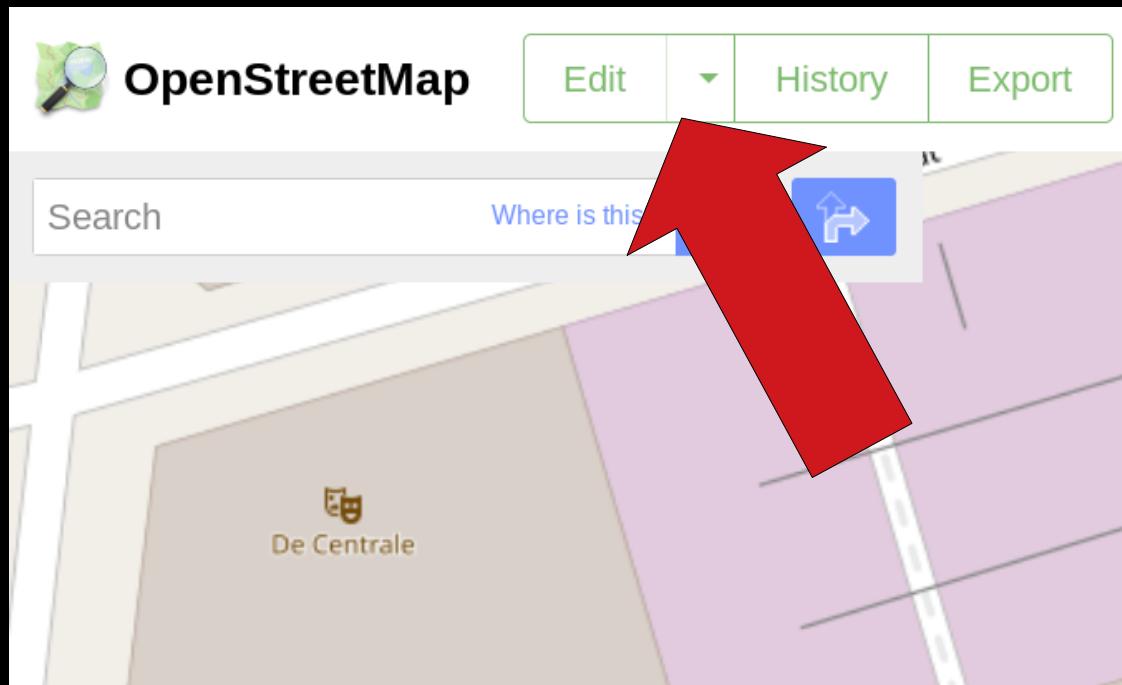


# Creating an account

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# Creating an account



# Creating an account

**Login**

Don't have an account? [Register now](#)

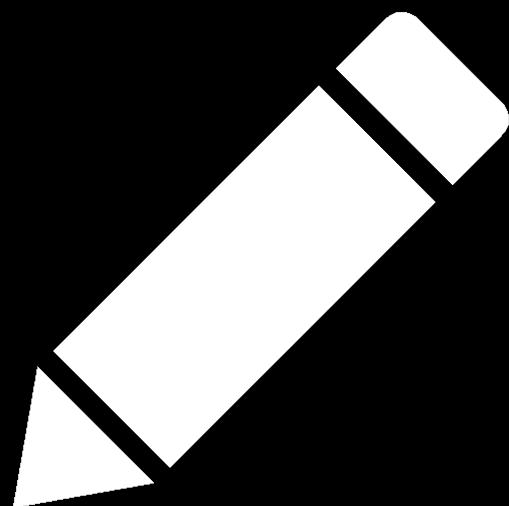
Email Address or Username:

Password:

[Lost your password?](#)

Remember me

**Login**



# Creating an account

## Sign Up



**Email Address:**

**Confirm Email Address:**

Your address is not displayed publicly, see our [privacy policy](#) for more information

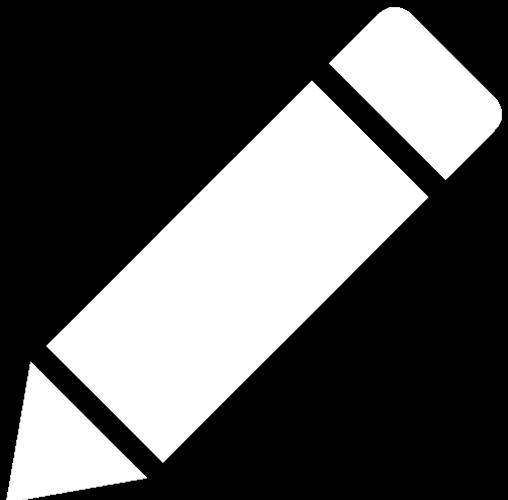
**Display Name:**

Your publicly displayed username. You can change this later in the preferences.

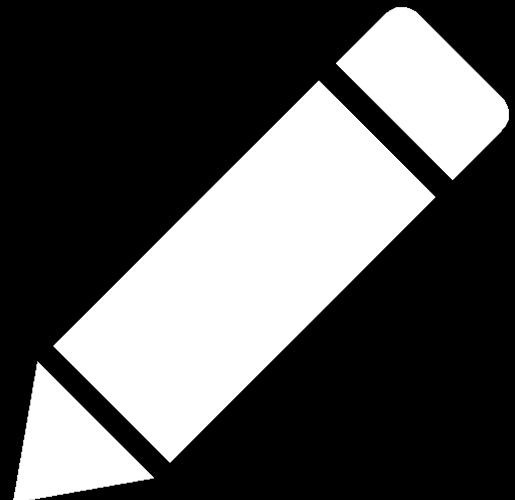
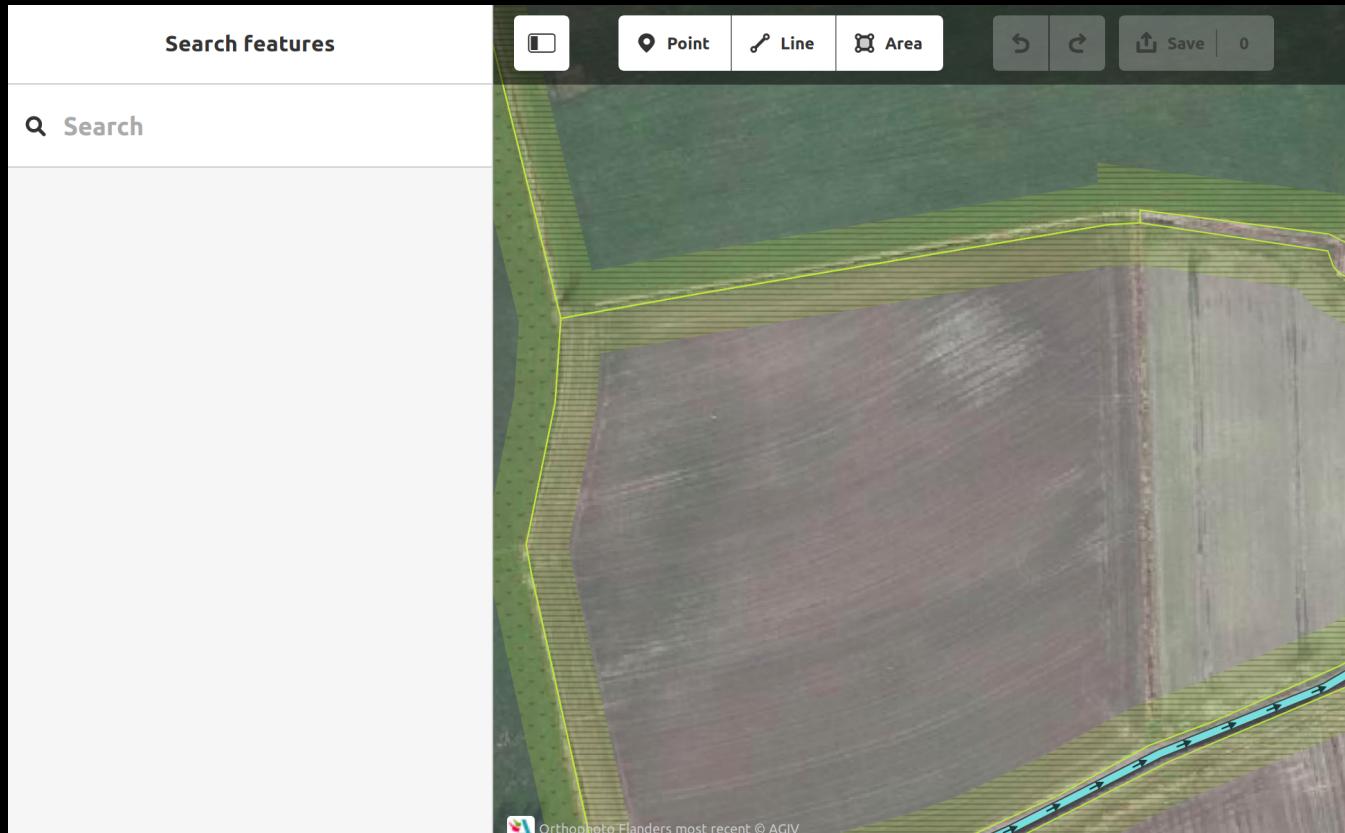
**Password:**

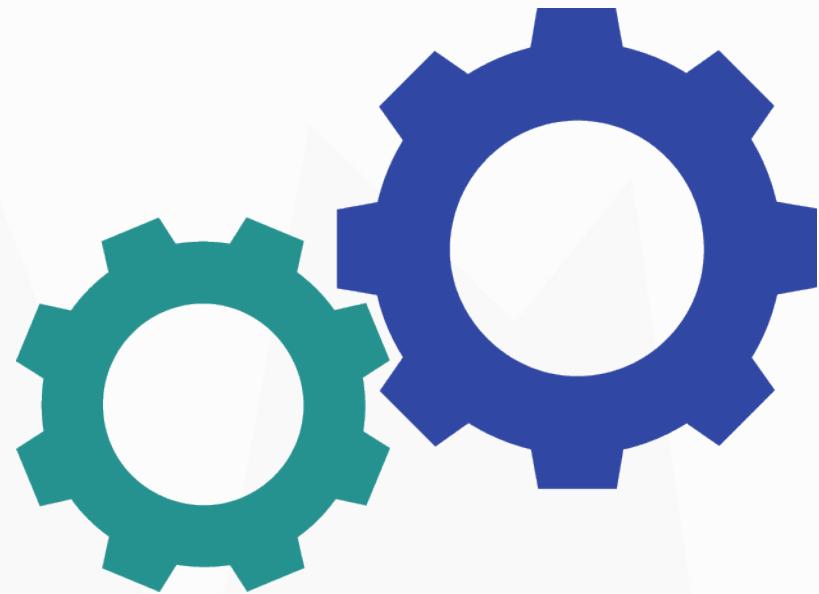
Free and editable  
Unlike other maps, OpenStreetMap is completely created by people like you, and it's free for anyone to fix, update, download and use.

Sign up to get started contributing. We'll send an email to confirm your account.



# Creating an account





# Editing OpenStreetMap

# Multiple editors

Editor = piece of software to  
make changes to OSM

# Multiple editors

28

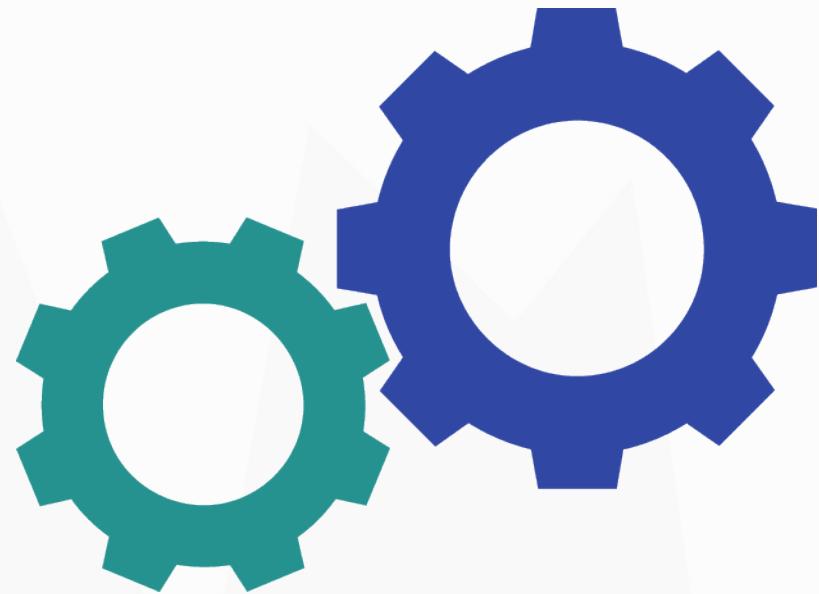
active editors as of dec '20  
(and around 15 deprecated)

# In this presentation

Warming up with  
**MapComplete (aka Cyclofix)**

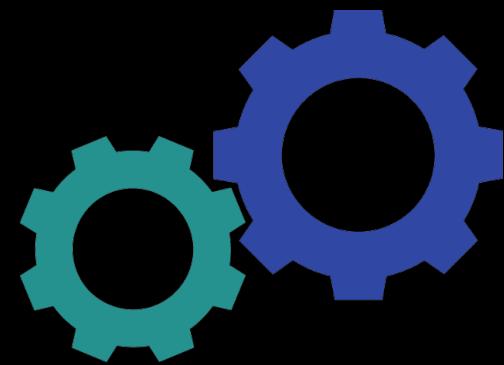
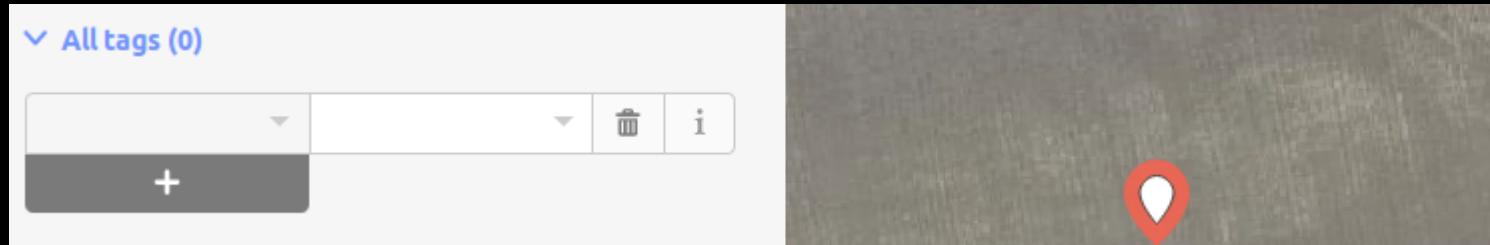
Editing geometries with  
**iD (aka the website)**

Not covered here: JOSM (aka the QGIS of OSM). If you know iD and OSM well, and want to do bulk things, give this one a spin.

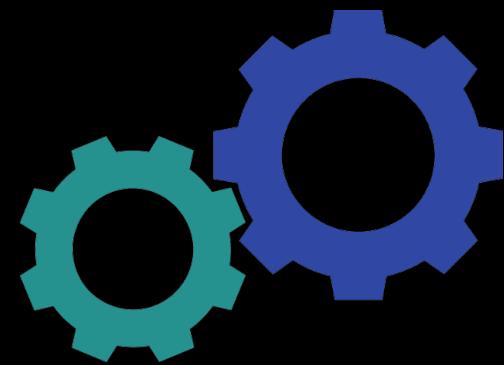
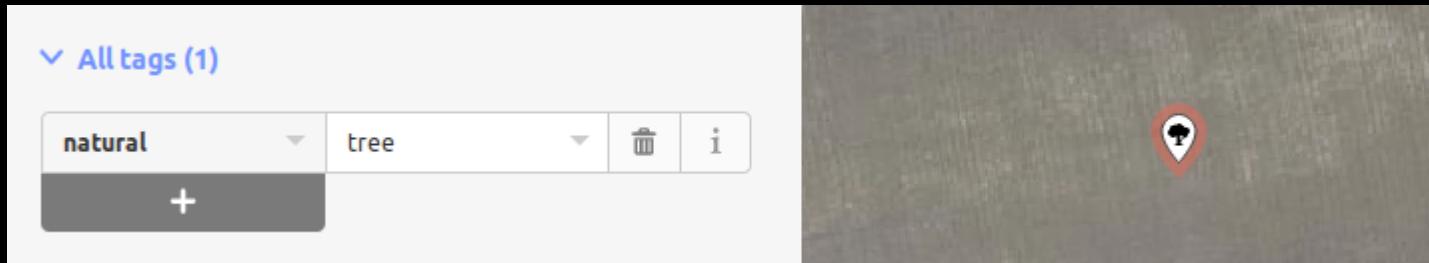


**Adding a point**

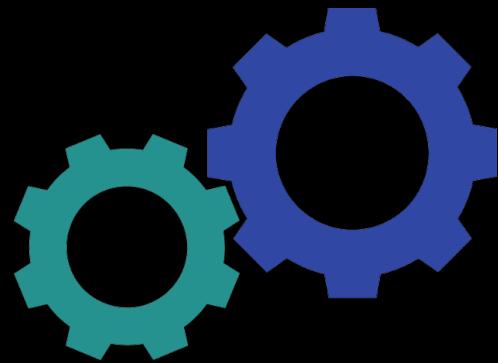
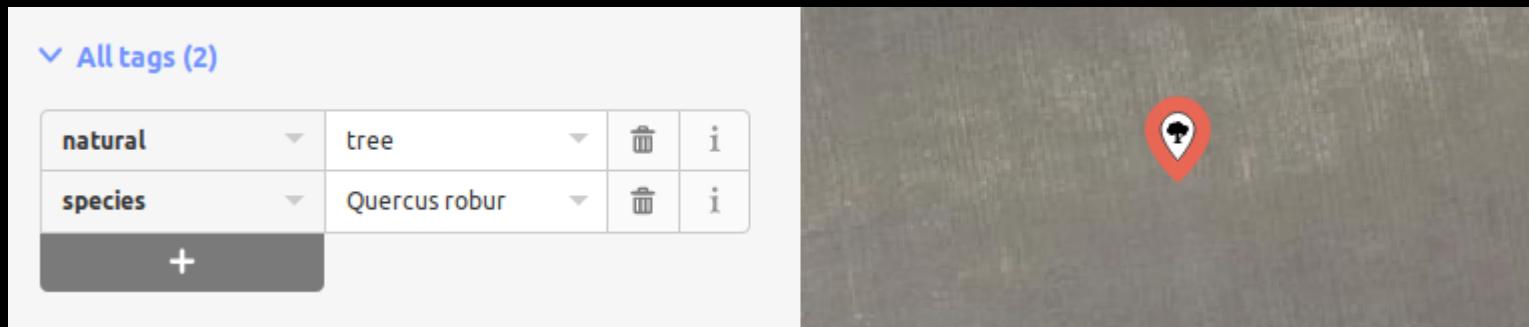
# Adding a point



# Adding a point



# Adding a point



# Adding a point

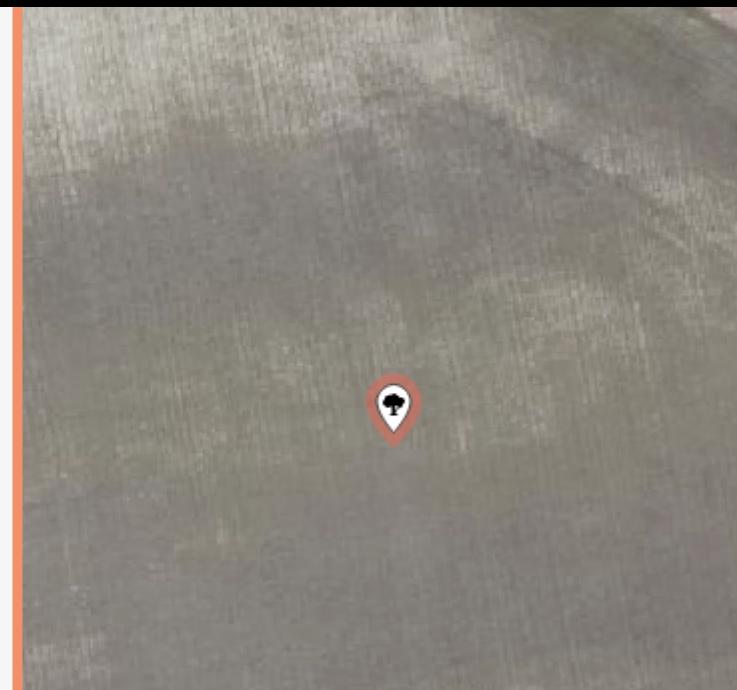
The property we are  
describing (Key)

The value of the property  
(Value)

All tags (8)

height	100
heritage	yes
heritage:operator	Ergoedcel Brugge
heritage:ref	681
natural	tree
species	Quercus robur
start_date	1812-12-01
width	2

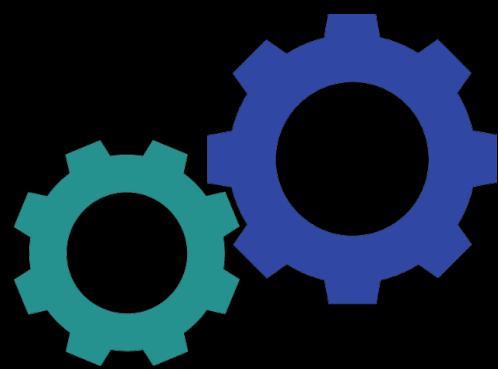
+

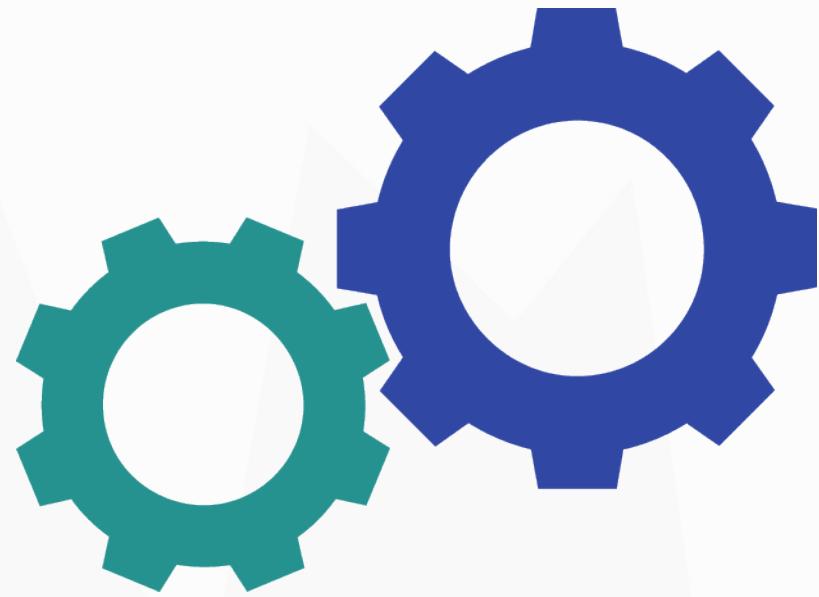


**Euhm...**

## **I don't know any of those tags**

- A tremendous lot is known by the editor
- Something special: have a look on [wiki.osm.org](http://wiki.osm.org)
- Ask the community (of the country where you are mapping)
- Still no answer? Invent something, in collaboration with the community





Lines

# Lines

Edit feature ✓

Point Line Area

Save | 1

Path

All fields

All tags (1)

highway path +

All relations (0) +

A screenshot of a map editing application. The main area shows a satellite view of a agricultural field with dark brown soil and some green vegetation. A red dashed line is drawn across the field, starting from the bottom left and extending towards the top right. The application has a dark-themed interface with a sidebar on the left for managing features. The sidebar includes sections for 'Edit feature' (with a checkmark icon), 'Path', 'All fields', 'All tags (1)' (which contains a 'highway' entry with a 'path' sub-item and a '+' button), and 'All relations (0)' (with a '+' button). At the top, there are buttons for 'Point', 'Line', and 'Area'. A toolbar at the top right includes icons for saving, undoing, redoing, and other operations. On the far right, there are zoom controls (+, -, ↗, ↘, ⏷, ⏸, ⓘ).



# Lines

Edit feature  

 Point  Line  Area    Save | 2

 Fence 

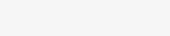
> All fields

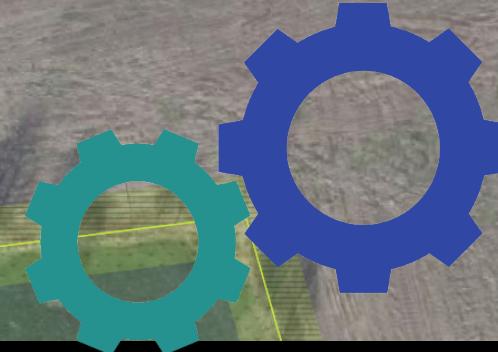
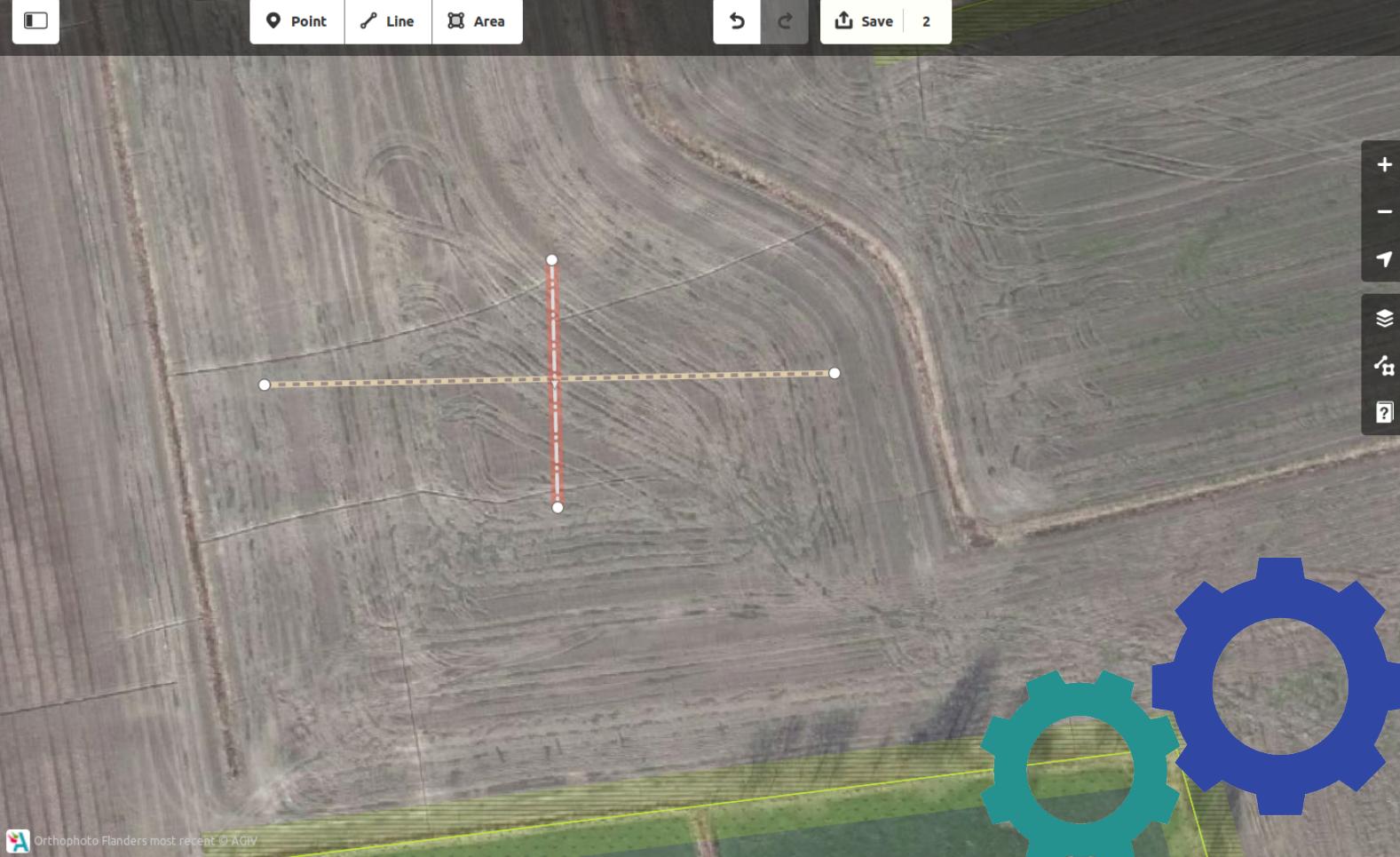
< All tags (1)

barrier  fence  

+ 

< All relations (0)

+ 



Orthophoto Flanders most recent © AGIV

# Lines

Edit feature ✓

Fence i

> All fields

▼ All tags (1)

barrier ▾ fence ▾ i

▼ All relations (0)

+

Orthophoto Flandre

An aerial orthophoto of a rural landscape with several agricultural fields. A prominent red dashed line runs vertically through the center of the image, intersecting a yellow solid line that extends horizontally across the middle. The terrain shows various shades of brown and green, indicating different types of crops or soil. The interface on the left side of the image is a digital mapping tool for editing features like fences.

# Lines

Edit feature ✓

Point Line Area

Save 3

Gate

All fields

All tags (2)

barrier	gate	delete	info
access	yes	delete	info

+

All relations (0)

+

A large blue gear icon is visible in the bottom right corner.

# Areas

Edit feature ✓

Point Line Area

Save 1

Building

All fields

All tags (1)

building yes +

All relations (0) +

A red polygon is drawn over a satellite image of a field, representing an area feature being edited. The application's UI includes a header with 'Edit feature' and a save button, a toolbar with drawing tools, and a sidebar for managing tags and relations.



# Areas

Edit feature ✓

Point Line Area

Save | 1

Building

> All fields

All tags (1)

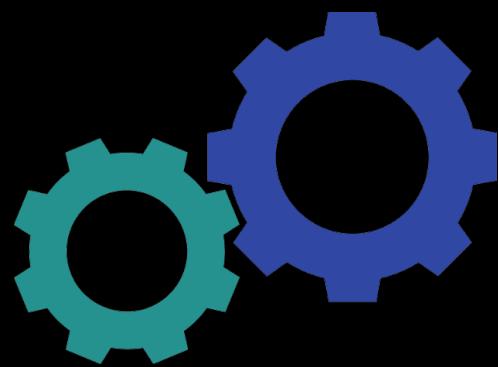
building yes +

All relations (0) +

The image shows a satellite view of a agricultural field with dark green and brownish patterns. A red polygon is drawn over a specific area in the center. The application's interface is visible on the left side of the screen. At the top, there's a toolbar with icons for Point, Line, and Area, and a save button labeled 'Save | 1'. Below the toolbar, there's a section for 'Building' with a small icon and a link to 'All fields'. Under 'All tags (1)', there's a dropdown menu set to 'building' with a value of 'yes' and a '+' button. Under 'All relations (0)', there's a single '+' button.



# A little secret



# A little secret



© Hanna-Barbera

# A little secret

They are just lines too!

But:  
end = begin

© Hanna-Barbera

