Before we begin

- You can use either iD or JOSM to make edits to OSM
- This is not a general introduction to mapping
- Mainstream tagging – not proposing/promoting obscure tags today
89 m • Turn left and go
Turn left and go Viale Dottor Ingegner Giovanni
64 m • 1 min • 5:21 PM
How do I get there?
Armchair to cupholder

Data

Router

UI

“In a quarter mile, turn left”
Don’t tag for the renderer
Don’t tag for the renderer

(Tag for the renderer and the router!)
Thinking like a router
- ice_skates=
- horse= (horse riders)
- vehicle= (category: any vehicle)

**Non-motorized vehicle**

- Single-tracked
  - ⚾️ bicycle= (cyclists)

- Double-tracked
  - 🎇 carriage= (horse(s) and carriage)
  - 🛒 trailer= (needs to be towed by another vehicle which has its own restrictions)
  - 🏕️ caravan= (a ✈️ travel trailer, also known as caravan)

**motor_vehicle=** (category: any motorized vehicle)

- Single-tracked
  - 🛵️ motorcycle= (a 2-wheeled motor vehicle, allowed to drive on motorways)
  - moped= (motorized bicycles with a speed restriction; e.g., at most a 50 cc engine or max. speed of about 45 km/h)
  - mofa= ("low performance moped", usually with a maximum design speed of 25 km/h)

- Double-tracked (category: motor vehicles with more than 2 wheels/more than 1 track)
  - 🚐 motorcar= describes all double tracked motor vehicles, including automobiles / (passenger) cars. Motorcar=no means 'no entry for any power driven vehicle except two-wheeled motor cycles without side-car'
  - 🎯 motorhome= (a 🏕️ motorhome)
  - 🚌 tourist_bus= describes a bus that is not acting as a public transport bus service, usually for long-distance travel but not always
  - 🏐️ coach= a bus for long-distance travel, not part of a public transport bus service
  - goods= (light commercial vehicles; e.g., goods vehicles with a maximum allowed mass of up to 3.5 tonnes)
  - 🏕️ hgv= (heavy goods vehicle; e.g., goods vehicles with a maximum allowed mass over 3.5 tonnes)
    - 🏕️ hgv articulated= articulated heavy goods vehicle
  - 🏖️ agricultural= (agricultural motor vehicles; e.g., tractors) that have additional restrictions; e.g., a 25 km/h speed limit
  - atv= a.k.a. Quad (bike) (Restricted to or permissive for vehicles 50 in, 1.27 m, or less in width) still in proposal stage. You may want to use maxwidth=1.27 instead.
  - snowmobile=

- By use
  - psv= (public service vehicle)
    - 🚌️ bus= (a heavy bus acting as a public service vehicle)
    - minibus= (a light bus acting as a public service vehicle)
EXCEPT COMMERCIAL VEHICLES AND VEHICLES LOADING ON POWELL.
Demo
Highway exits and destination signs
Turns and lanes
Turns

- For the router - Turn Restrictions
- For human friendly experience - Turn Lanes
Turn Restrictions

Extremely important for navigation.

Coverage in OSM is scant.

They don’t add much in terms of visual maps so they’ve been overlooked.

YOU can help!
Turn Lanes

Important because the help the driver prepare for a large intersection by getting into the correct lane
Demo
Lanes in the future

• change:lanes

• transit:lanes and transit relations

• Per-lane entrance and exit destinations
Intersections
Intersection Mapping

1. Make sure all the possible paths through the intersection are mapped, but no more.
Intersection Mapping

2. Avoid contorting through roads.

- **Recommended**
- **Not recommended**
Intersection Mapping

3. Make sure to tag turn lanes throughout the intersection.
Look here for more details

https://www.mapbox.com/mapping/mapping-for-navigation/modeling-intersections-for-map-navigation/
Complex intersections are designed to allow large volumes of traffic move through limited space safely and efficiently. Examples:

- Single-point urban interchange (SPUIs)
- Continuous Flow Intersection (CFI)
- Diverging Diamond Interchange (DDI)
- Superstreet
- Turbo Roundabout
SPUIs
Starting points

- Make your hometown navigable!
- https://etherpad.wikimedia.org/p/navigation-mapping
- https://www.mapbox.com/mapping/mapping-for-navigation/