NEW: Brouter uses „Pseudo-tags"

What are pseudo-tags / Why pseudo-tags?

Pseudo-Tags calculation for Brouter

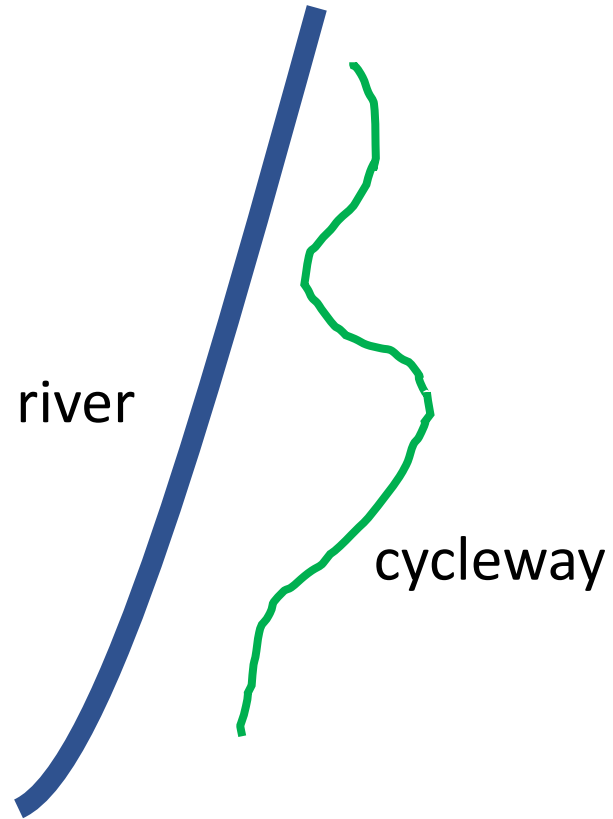How to use / select pseudo-tags?

Usage examples

„Pseudo-tags"

➔In the previous version , to calculate a route, Brouter used the standard "tags" stored in the OSM map.

➔Further routing options were requested by cyclists:

-To favor a routing without noise

-To favor a routing along rivers or lakes

-To favor a routing in forests or park…
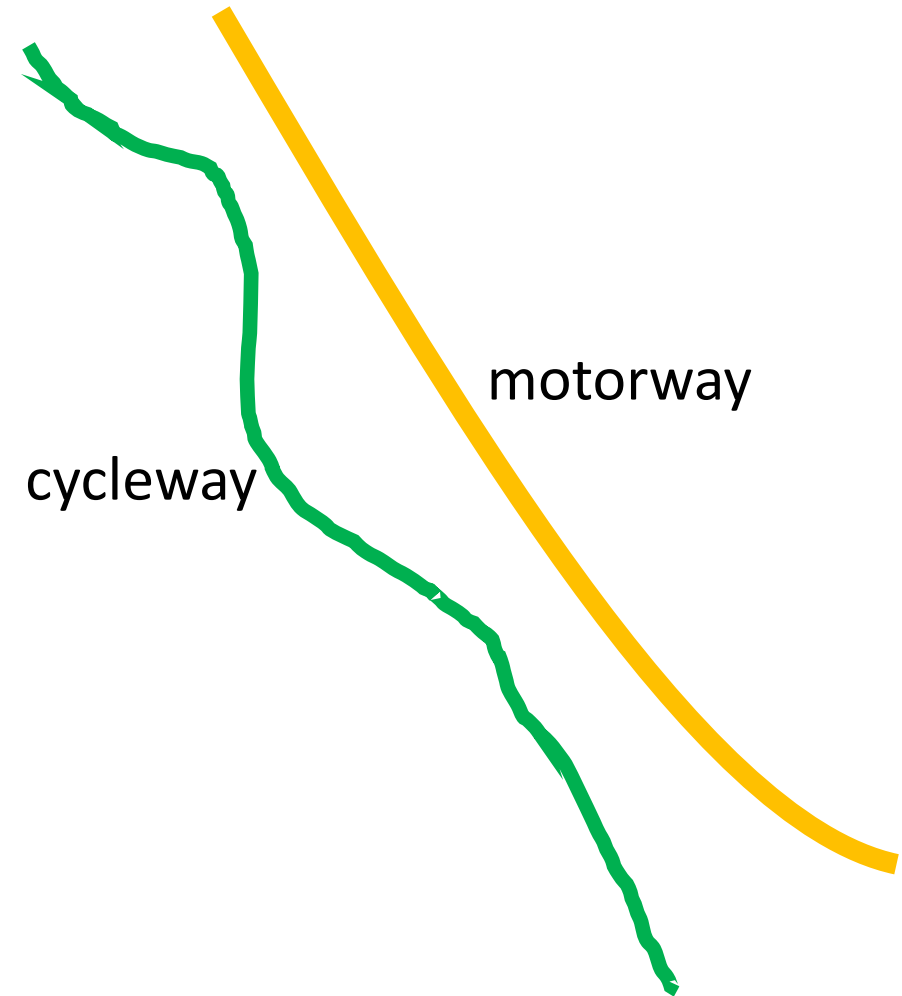
-To bypass cities

-To consider the car-traffic

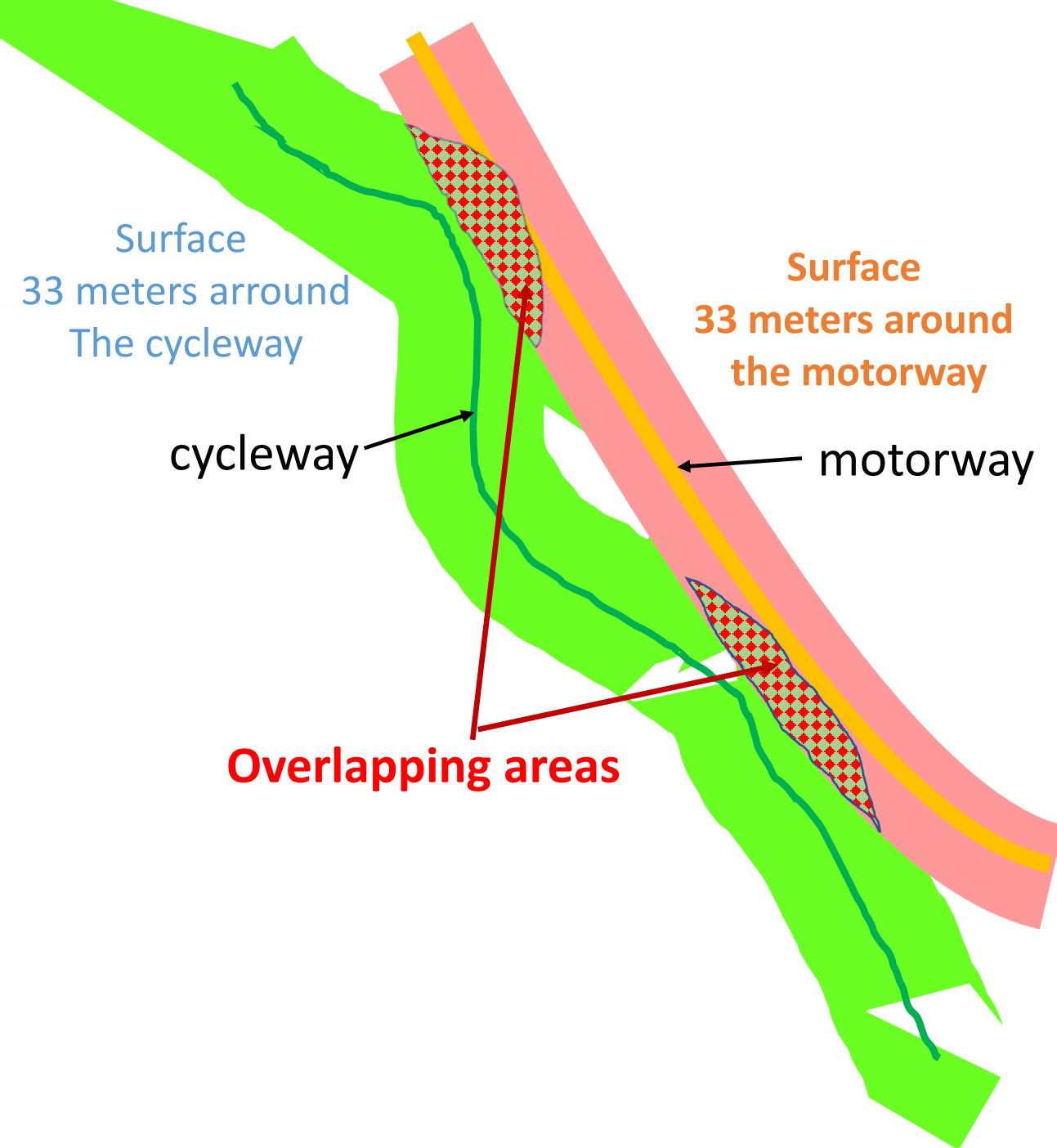# Basic approach for calculating new parameters

Factor river proximity

Factor noise

river

cycleway

How can an indicator be created at all?

cycleway

motorway

Calculation of the new parameters
(basic approach)

Surface
33 meters arround
The cycleway

Surface
**33 meters around
the motorway**

cycleway

motorway

Overlapping areas

The "overlapping" areas divided by the area of the cycleway provides an "aggregated" indicator (between 0 and 1) about the "proximity" to the highway and thus the "noise factor"!
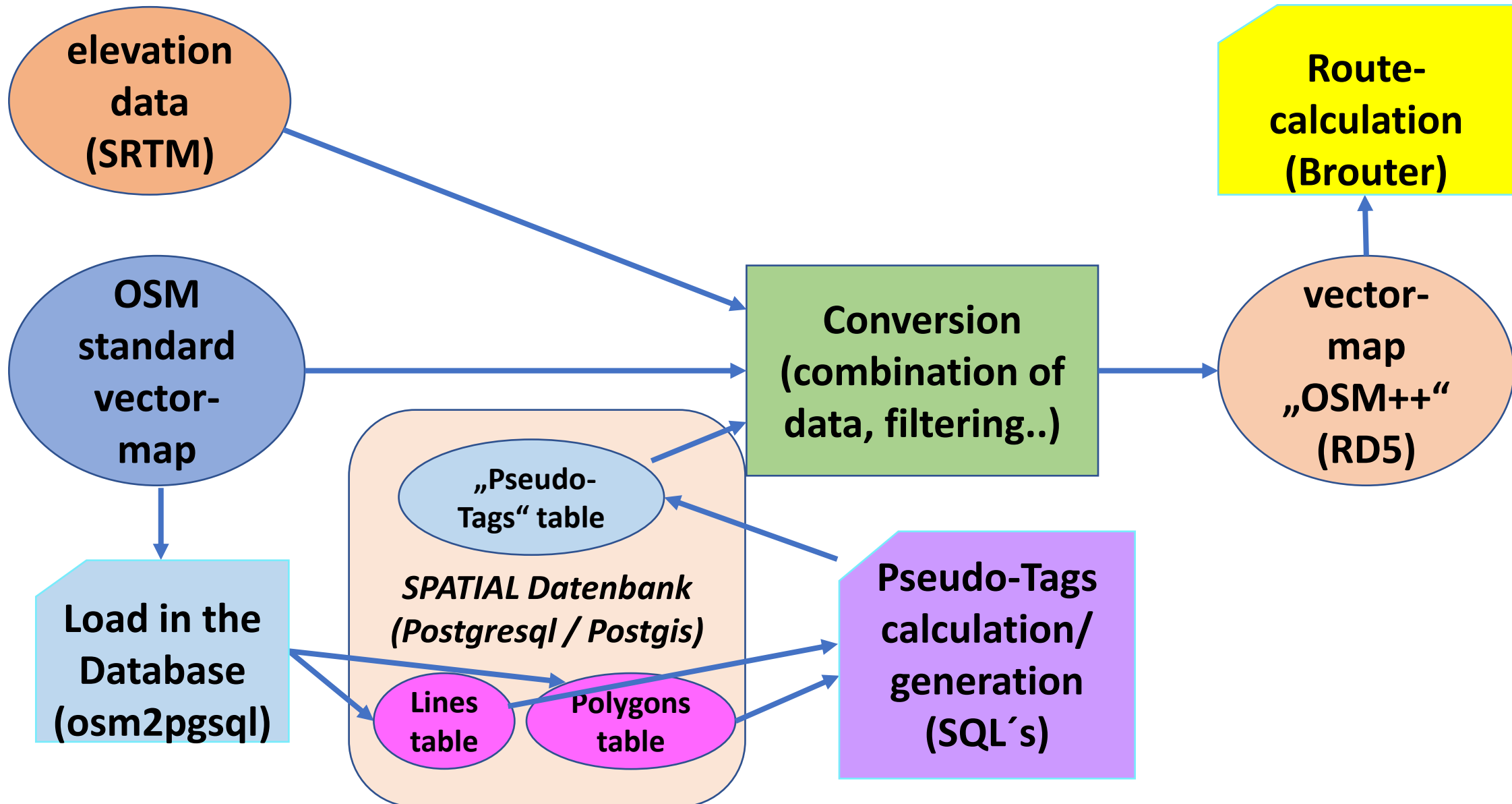
Note 1:
The calculation is based on the OSM segments (= sections of the paths with identical properties).

Note 2:
The Postgis database is ideally suited for the calculation: SQL's + functions such as ST_Buffer, st_area, st_intersection, ST_Union...are available!

Pseudo-tags calculation for Brouter

Pseudo-tags

➔For a pseudo tag, a "class" with a value from 1 to 6 is defined for each OSM segment
(zero ➔ no value)
➔ This "Class" is used for routing like standard tags
(penalties are defined in the profile)

```
assign noise_penalty
  switch consider_noise
    switch estimated_noise_class=  0
    switch estimated_noise_class=1  0.3
    switch estimated_noise_class=2  0.6
    switch estimated_noise_class=3  1
    switch estimated_noise_class=4  1.2
    switch estimated_noise_class=5  1.5
    switch estimated_noise_class=6  2 0 0
```
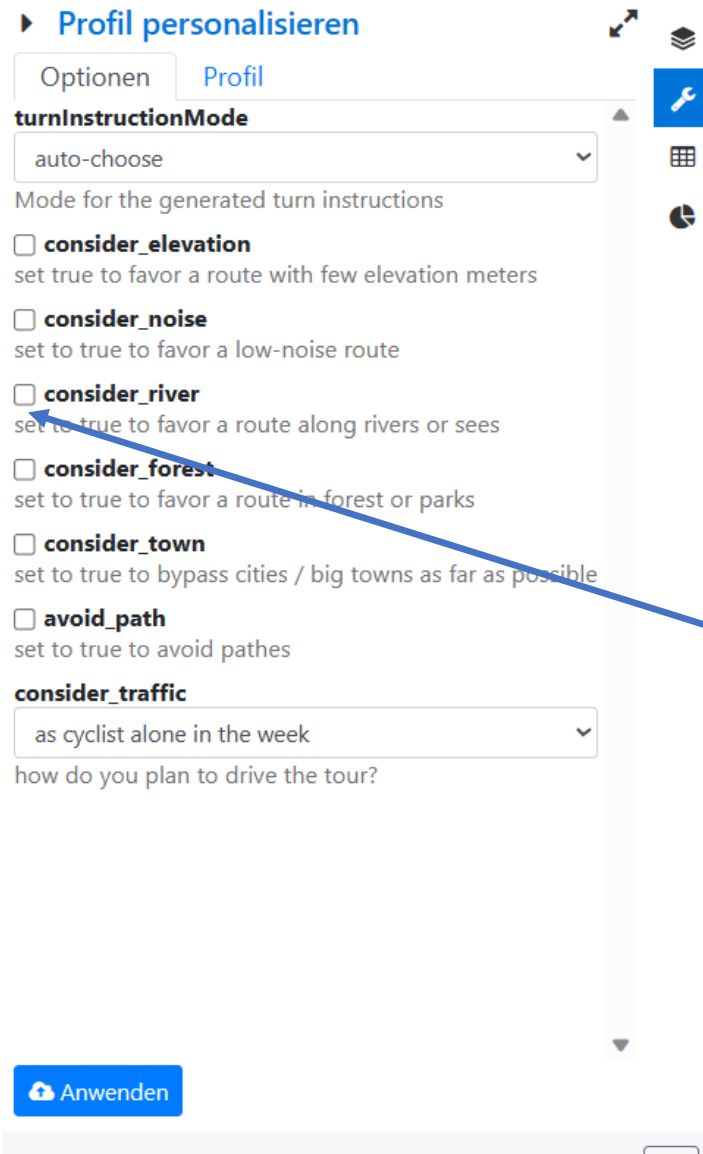
➔Visualization of the calculated classes:
http://brouter.de/brouter-web/PseudoTags.html
(enter the name of a city to visualize the tags around the location)

Usage of Pseudo-tags in Brouter-web

After you have selected your profile type (racebike, trekking, etc..) in the top left field, you can select one or more „option":

1-Open the tool box (top right)
2-Select your preferred Option(s)
➜example „consider_river"
3-Activate the options („Apply" at the bottom)

Examples of use

(To evaluate the impact of Pseudo-Tags)
Noise
https://brouter.de/essbee/#map=13/49.8256/9.1585/standard&lonlats=9.14406,49.839307;9.166206,49.792247

River + elevation (Leine-Heide)
http://brouter.de/essbee/#map=9/51.9400/10.1842/osm-mapnik-german_style&lonlats=9.920139,51.529144;9.717402,52.373399&profile=trekking_SB

River (Hesse)
https://brouter.de/essbee/#map=11/50.0453/8.9171/osm-mapnik-german_style&lonlats=8.782902,50.099461;9.070573,49.918035&profile=trekking_SB

Forest (Palatinat)
http://brouter.de/essbee/#map=10/49.3224/8.5268/standard&lonlats=8.350938,49.540307;8.124374,49.107132&profile=trekking_SB

Town (Hesse)
http://brouter.de/essbee/#map=10/50.1196/8.9449/osm-mapnik-german_style&lonlats=8.688531,50.30097;8.6192,49.449642&profile=trekking_SB