

OSM Introduction

Node

Way

Relation

Area?

Overpass Query

```
[out:json][timeout:25];

(

  /* general parking */

  node["amenity"="parking"]({{bbox}});

  way["amenity"="parking"]({{bbox}});

  relation["amenity"="parking"]({{bbox}});


  /* single parking places */

  node["amenity"="parking_space"]({{bbox}});

  way["amenity"="parking_space"]({{bbox}});

  relation["amenity"="parking_space"]({{bbox}});


  /* underground parking */

  node["amenity"="parking_entrance"]({{bbox}});

  way["amenity"="parking_entrance"]({{bbox}});

  relation["amenity"="parking_entrance"]({{bbox}});


  /* lane parking */
```

```

node["parking:lane"~"." ]({{bbox}});

way["parking:lane"~"." ]({{bbox}});

relation["parking:lane"~"." ]({{bbox}});


/* proposed feature */

node["type"="site"]["site"="parking"]({{bbox}});

way["type"="site"]["site"="parking"]({{bbox}});


/* parking meters */

node["amenity"="vending_machine"]["vending"="parking_tickets"]({{bbox}});

);

out body;

>;

out skel qt;

```

Metadata

amenity=parking

All subtags at Link: <http://wiki.openstreetmap.org/wiki/Tag:amenity%3Dparking>

- **access** = {yes, customers, permissive, private}; yes = public; customers = accessible only to customers e.g. at a cinema; private = e.g. for staff at a business park
- parking = {surface, multi-storey, underground, rooftop, sheds, garage_boxes, ...}
- park_ride = {yes, no, bus, train, tram, metro, ferry} for Park&Ride services
- **fee** = {yes, no, <interval>}
- supervised = {yes, no, <interval>}

- **capacity**, capacity:disabled, capacity:charging (for electric vehicles)
- **opening_hours** = {<interval>}, maxstay
- maxheight

parking:lane

All subtags at <http://wiki.openstreetmap.org/wiki/Key:parking:lane>

- parking:lane:{left, right, both}= {parallel, perpendicular, marked, fire_lane}; parallel = on both sides parking is possible (only with *both*); perpendicular = perpendicular parking is possible on that side; marked = parking spaces are individually marked; fire_lane = access to firefighters on that side
- parking:condition:<side> = { free, ticket, disc, residents, customers, private}; free = no additional fee is required; ticket = a ticket needs to be purchased; disc -> a maximum parking period is specified, together with parking:condition:side:maxstay=2h;
 - residents, together with parking:condition:side:residents=A, A being the permission identification
 - customer -> only accessible to customers (e.g. guest of a hotel)
 - private -> only accessible with the permission of the owner (via renting etc.)
- parking:condition:both:vehicles={motocar, goods, bus} -> only accessible to particular vehicles
- parking:condition:both=ticket + parking:condition:both:residents=* -> means that residents are parking for free despite ticket specification
- intervals are specified like "Mo-Fr 09:00-19:00"

vending=parking_tickets

More subtags at http://wiki.openstreetmap.org/wiki/Tag:amenity%3Dvending_machine

- payment:coins={yes, no}; payment:notes; (payment:cash for both); payment:electronic_purses

How can regular users edit/add parking places?

When the car is parked, the SoNah apps checks whether parking place is found in OSM (using OSM interface). If not, the user gets asked to:

- add single parking space
- add whole parking area
- if OSM entry is incomplete, the user is asked to check it and add metadata to it