The package osmdata

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The osmdata package



Figure 1:

The osmdata package

```
install.packages("osmdata")
```

```
library(osmdata)
```

```
citation("osmdata")
```

```
##
```

##

##

```
To cite osmdata in publications use:
##
```

osmdata Journal of Open Source Software, 2(14). URL ## https://doi.org/10.21105/joss.00305 ##

```
A BibTeX entry for LaTeX users is
```

Data (c) OpenStreetMap contributors, ODbL 1.0. http://ww

Mark Padgham, Bob Rudis, Robin Lovelace, Maëlle Salmon

##

@Article{.

```
##
##
```

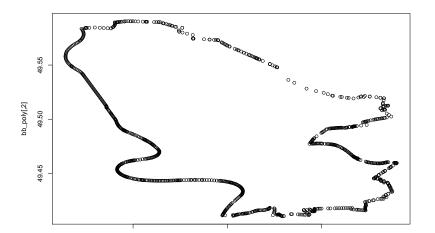
Getting data within a bounding box

$$q \leftarrow opq(bbox = c(51.1, 0.1, 51.2, 0.2))$$

Getting data for place of interest

```
bb <- getbb('Greater London, U.K.')
q <- opq(bbox = bb)</pre>
```

The boundary for Mannheim



Amenity points in Mannheim Seckenheim

- any named objects
- you can find most of them here:

https://wiki.openstreetmap.org/wiki/Map_Features

```
q <- opq (bbox = 'Mannheim, Seckenheim')
q <- add_osm_feature (q, key = 'amenity')
osmdata_xml (q, 'data/Mannheim_se.osm')</pre>
```

See what's behind

```
nrow(dat)
names(dat)
```

Bar's in Mannheim

Bus stations in Amsterdam

```
q <- opq (bbox = 'Amsterdam')</pre>
q <- add_osm_feature (q, key ="amenity",
                      value = 'bus station')
osmdata_xml (q, 'data/Amsterdam_bus_station.osm')
dat bus <- sf::st read ('../data/Amsterdam bus station.osm
                         layer = 'points', quiet = TRUE)
nrow(dat bus)
## [1] 7
?sf::st read
```

An alternative

- Main vignette osmdata
- OpenStreetMap Data Structure

```
## [1] 38
```

Further information about public transport

Stop area

```
dat3 <- opq(bbox = 'Amsterdam') %>%
   add_osm_feature(key = 'railway', value = 'tram_stop') {
   osmdata_sf ()
```

Changing the API