

cake

Analytical Base Tables for Swiss Addresses

Installation

Install the cake library from the Github account:

```
devtools::install_github("datenbaecker/cake")
```

Connect to a Data Provider

Load the library, connect to the REST API and register the connector as default data provider. The downloaded data can automatically be saved on disk, so that subsequent calls can operate on local data.

```
library(cake)

dp <- datenbaecker(cache_dir = TRUE)
default_data_provider(dp)</pre>
```

Statistical Units

Kappel am Albis

Get ID and labels of different statistical units (communes, zip codes, cantons):

Get Information for Addresses

Get a table for a selected sample of addresses all over Switzerland:

```
smpl_adr <- get_address_features()</pre>
```

Or search for specific addresses:

adr_feat %>%

```
adr_feat <- get_address_features("Bundesstrasse 9 6003 Luzern")</pre>
```

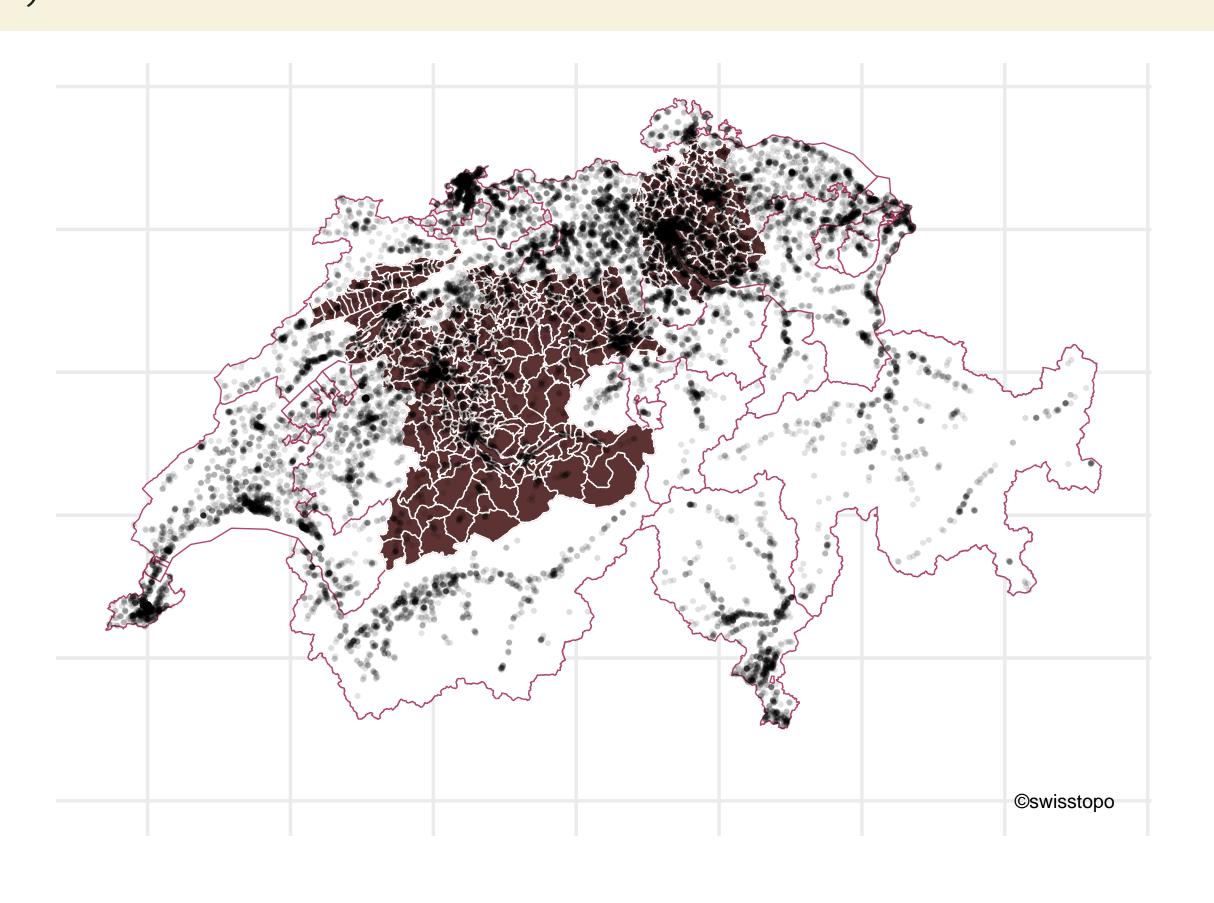
And you get back a table with a predefined set of variables from different sources:

```
bind_rows(smpl_adr) %>%
    select(stn_short, adr_number, zip_name, com_canton, e_koord, n_koord, bev_total, bev_nat_foreign, bev_sex_m_40)
              stn_text adr_number zip_name com_canton e_koord n_koord bev_total bev_nat_foreign bev_sex_m_40
         Bundesstrasse
                                     Luzern
                                                    LU 2665800 1210700
                                                                              36
                               9a Oberwil BL
                                                    BL 2609000 1262700
         Konsumstrasse
                                                    GE 2495500 1115600
3 Chemin de l'Epenontaz
                                     Bernex
                               19 Liestal
                                                    BL 2622900 1259100
        Militärstrasse
                                                    BL 2609900 1265300
5 Rottmannsbodenstrasse
                                7 Binningen
           Hubackerweg
                              33d Reinach BL
                                                    BL 2611400 1261000
```

Plot

Plot your data with ggplot geometries for Swiss entities:

```
ggplot(tibble(bfs_num = 1:26), aes(id = bfs_num)) +
  geom_canton(fill = "white") +
  geom_commune(aes(id = id), communes, colour = "white") +
  geom_point(
  aes(x = e_koord, y = n_koord, alpha = bev_total),
  inherit.aes = FALSE, data = adr_feat, size=0.2
)
```



Get Metadata

The metadata command lists all sources:

metadata(adr_feat)

- Bundesamt für Landestopografie swisstopo
- · adr_number
- Hausnummer
- com_cantonKantonskürzel
- stn_text
- Strassenname
- zip_name
 Ortschaftsname gemäss amtlichem Ortschaftenverzeichnis
- Bundesamt für Statistik BFS -
- bev_nat_foreign
- Ständige Wohnbevölkerung nach Staatsangehörigkeit Ausländer/innen, Total
 bev_total
 Ständige Wohnbevölkerung, Total

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