

B5 Simple Features

Jan-Philipp Kolb

23 Oktober 2018

Das Paket sf

Simple Features for R

```
library(sf)
```

```
## Linking to GEOS 3.6.1, GDAL 2.2.3, proj.4 4.9.3
```

```
demo(sf::affine)
```

Beispieldaten bekommen

```
library(osmdata)
```

```
## Data (c) OpenStreetMap contributors, ODbL 1.0. http://www.c
```

```
bb_poly <- getbb(place_name = "Amsterdam",  
                 format_out = "polygon")
```

```
ls <- st_multilinestring(bb_poly)
```

```
pol <- sf::st_polygon(bb_poly)  
class(pol)
```

```
## [1] "XY"      "POLYGON" "sfg"
```

```
bb_poly_ma <- getbb(place_name = "Mannheim",  
                     format_out = "polygon")
```

Graphiken mit sf

```
demo(nc, ask = FALSE, echo = FALSE)
```

```
## Reading layer `nc.gpkg' from data source `D:\Programme\R-3.
## Simple feature collection with 100 features and 14 fields
## Attribute-geometry relationship: 0 constant, 8 aggregate, 6
## geometry type:  MULTIPOLYGON
## dimension:      XY
## bbox:          xmin: -84.32385 ymin: 33.88199 xmax: -75.45
## epsg (SRID):   4267
## proj4string:    +proj=longlat +datum=NAD27 +no_defs
```

```
plot(nc)
```

```
## Warning: plotting the first 9 out of 14 attributes; use max
## plot all
```

Shapefiles mit sf importieren

```
setwd(data_path)
plz <- st_read("post_pl.shp")
```