PLZ Karten

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29 8 2018

PLZ Datensatz einlesen

Quelle für PLZ Shapefiles

```
library(rgdal)

setwd(data_path)
plz <- readOGR ("post_pl.shp","post_pl")

## OGR data source with driver: ESRI Shapefile
## Source: "D:\Daten\Daten\GeoDaten\post_pl.shp", layer: "]
## with 8270 features
## It has 3 fields</pre>
```

Die Daten plotten

```
plzbereich <- substr(plz@data$PLZ99,1,2)
plot(plz[plzbereich=="68",])</pre>
```



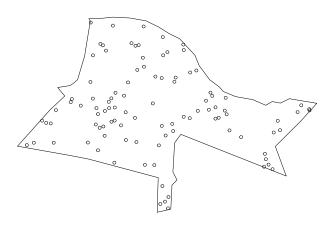
Räumliche Stichprobe

Reverse Geokodierung

```
library(ggmap)
```

Die räumliche Stichprobe plotten

```
plot(plz[plz@data$PLZ99==sampplz,])
points(spatsamp)
```



Nur tatsächliche Adressen

▶ Reguläre Ausdrücke in R

```
addr list <- spatsamp$adress
  # Adressen raus nehmen, die NA sind
indna <- which(is.na(addr list))</pre>
addr list <- as.character(addr list)</pre>
addr_list2 <- strsplit(x = addr_list,split = " ")
addr_list2b <- unlist(lapply(addr_list2,length))</pre>
ind ua <- which(addr list2b<3)
addr_list3 <- unlist(lapply(addr_list2,function(x)x[1]))
  # Adressen rauß nehmen, die Landstraßen
  # oder Autobahnen sind
addr list3 <- tolower(addr list3)
ind str \leftarrow grep("^[a-z][1-9]", addr list3, value = F)
addr list t <- addr list[-c(ind str,ind ua,indna)]
```

Das Ergebnis plotten

```
plot(plz[plz@data$PLZ99==sampplz,])
points(spatsamp,pch=20)
points(spatsamp[ind_str,],pch=20,col="green")
points(spatsamp[ind_ua,],pch=20,col="purple")
points(spatsamp[indna,],pch=20,col="red")
```

