Übersicht über bisherige Ergebnisse

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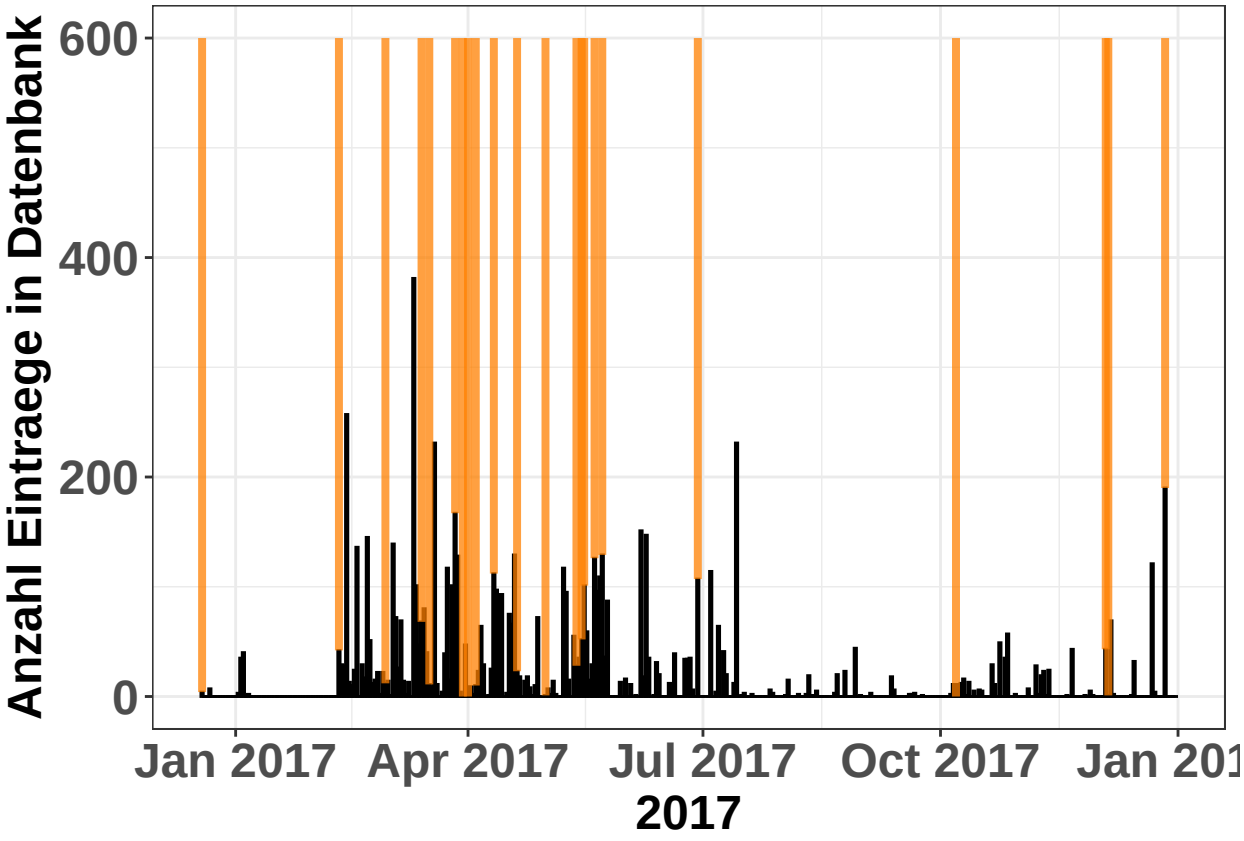
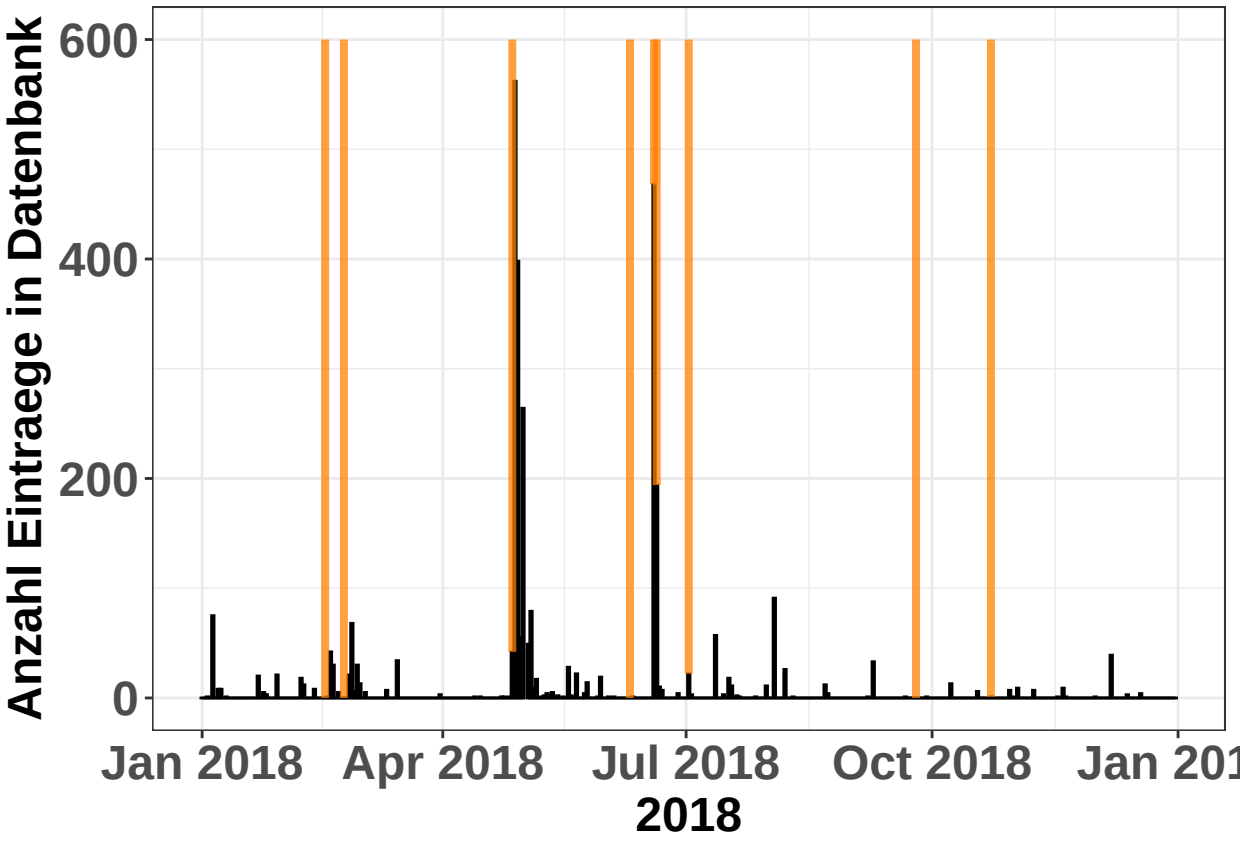
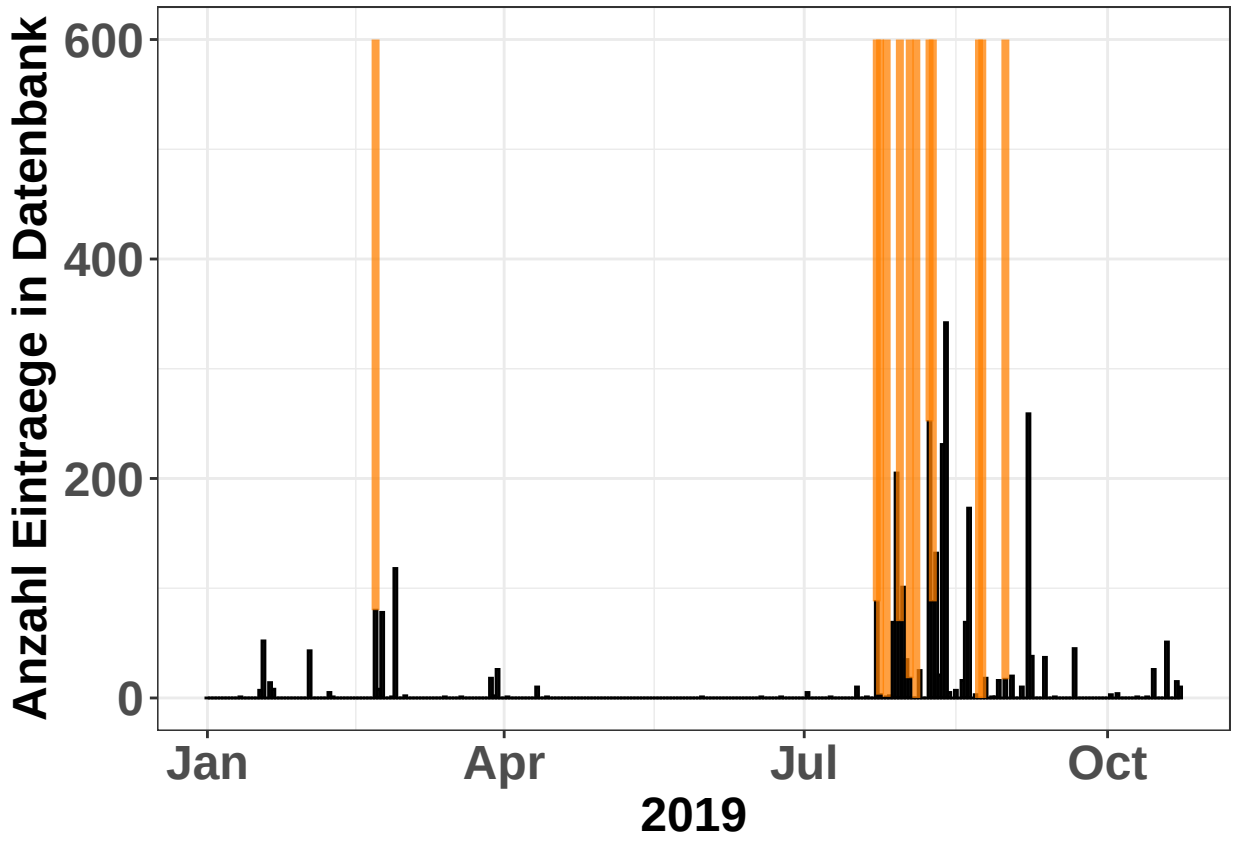
17 11 2019




```
## Warning: Removed 1 rows containing missing values (position_stack).
```


Anzahl Eintraege in Datenbank
600
400
200
0
Jan 2018
Apr 2018
Jul 2018
Oct 2018
Jan 201
2018



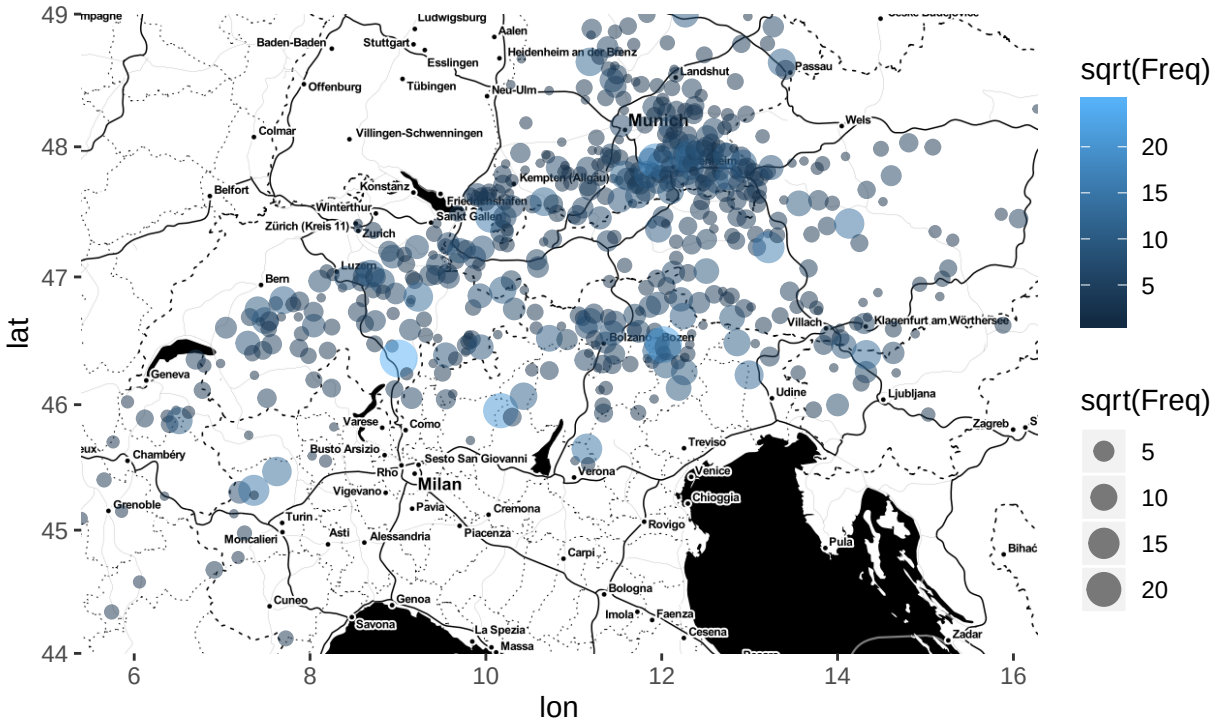

```
sp_crowd <- readRDS("sp_crowd.RDS")
box <- sp_crowd@bbox
box[2,] <- c(44, 49)
df <- readRDS("lastone.RDS")
map <- get_stamenmap(bbox = box, zoom = 7, maptype = "toner")
```

```
## Source : http://tile.stamen.com/toner/7/65/43.png

## Source : http://tile.stamen.com/toner/7/66/43.png

## Source : http://tile.stamen.com/toner/7/67/43.png

## Source : http://tile.stamen.com/toner/7/68/43.png

## Source : http://tile.stamen.com/toner/7/69/43.png

## Source : http://tile.stamen.com/toner/7/65/44.png

## Source : http://tile.stamen.com/toner/7/66/44.png

## Source : http://tile.stamen.com/toner/7/67/44.png

## Source : http://tile.stamen.com/toner/7/68/44.png
```

```
## Source : http://tile.stamen.com/toner/7/69/44.png

## Source : http://tile.stamen.com/toner/7/65/45.png

## Source : http://tile.stamen.com/toner/7/66/45.png

## Source : http://tile.stamen.com/toner/7/67/45.png

## Source : http://tile.stamen.com/toner/7/68/45.png

## Source : http://tile.stamen.com/toner/7/69/45.png

## Source : http://tile.stamen.com/toner/7/65/46.png

## Source : http://tile.stamen.com/toner/7/66/46.png

## Source : http://tile.stamen.com/toner/7/67/46.png

## Source : http://tile.stamen.com/toner/7/68/46.png

## Source : http://tile.stamen.com/toner/7/69/46.png
```

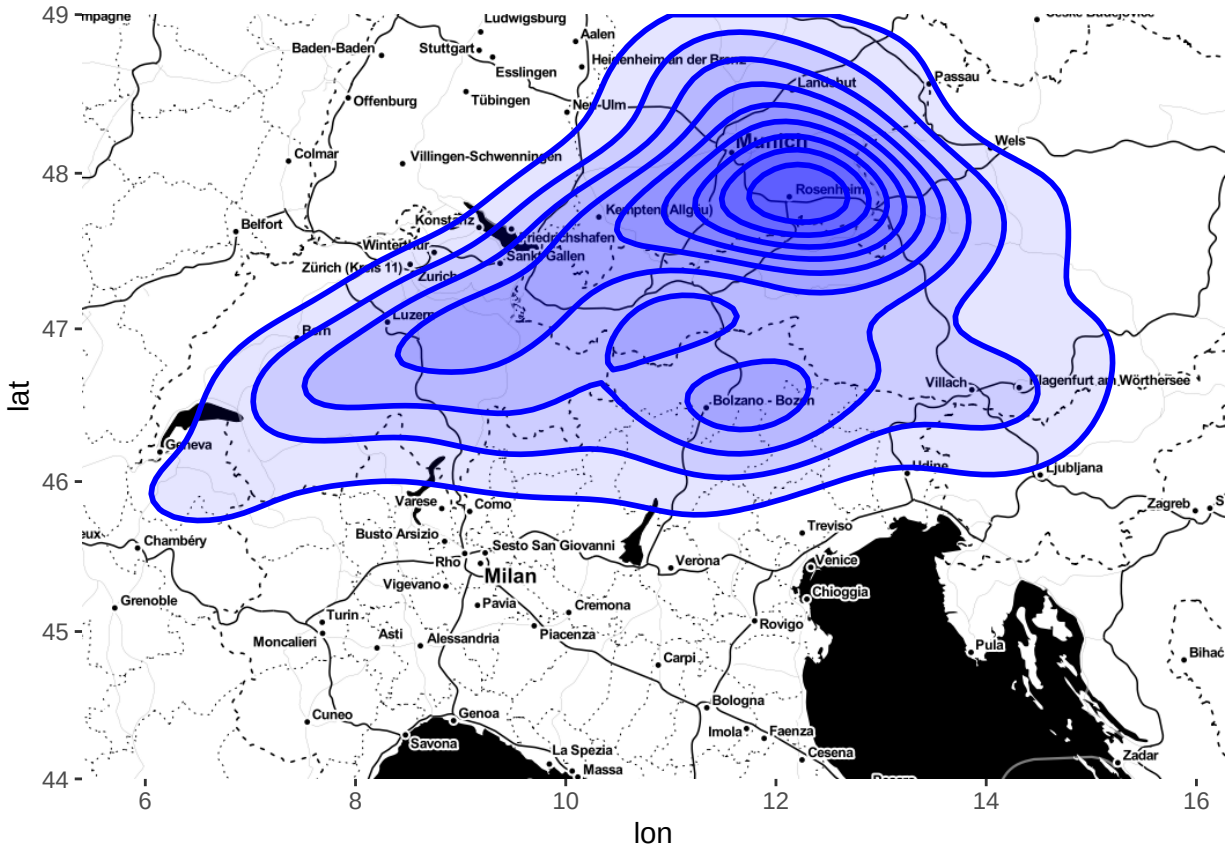
```
plt <- ggmap(map) +
  geom_point(aes(x = lng, y = lat, size = sqrt(Freq), col = sqrt(Freq)),
             data = df, alpha = .5)
plt
```

```
## Warning: Removed 48 rows containing missing values (geom_point).
```




```
# Räumliche Verteilung der Einträge in die Datenbank
plt2 <- ggmap(map) +
  stat_density2d(aes(x = lng, y = lat),
  col = "blue", fill = "blue", alpha = 0.1, size = 1, bins = 10, data = df, geom = "polygon"
)
plt2
```

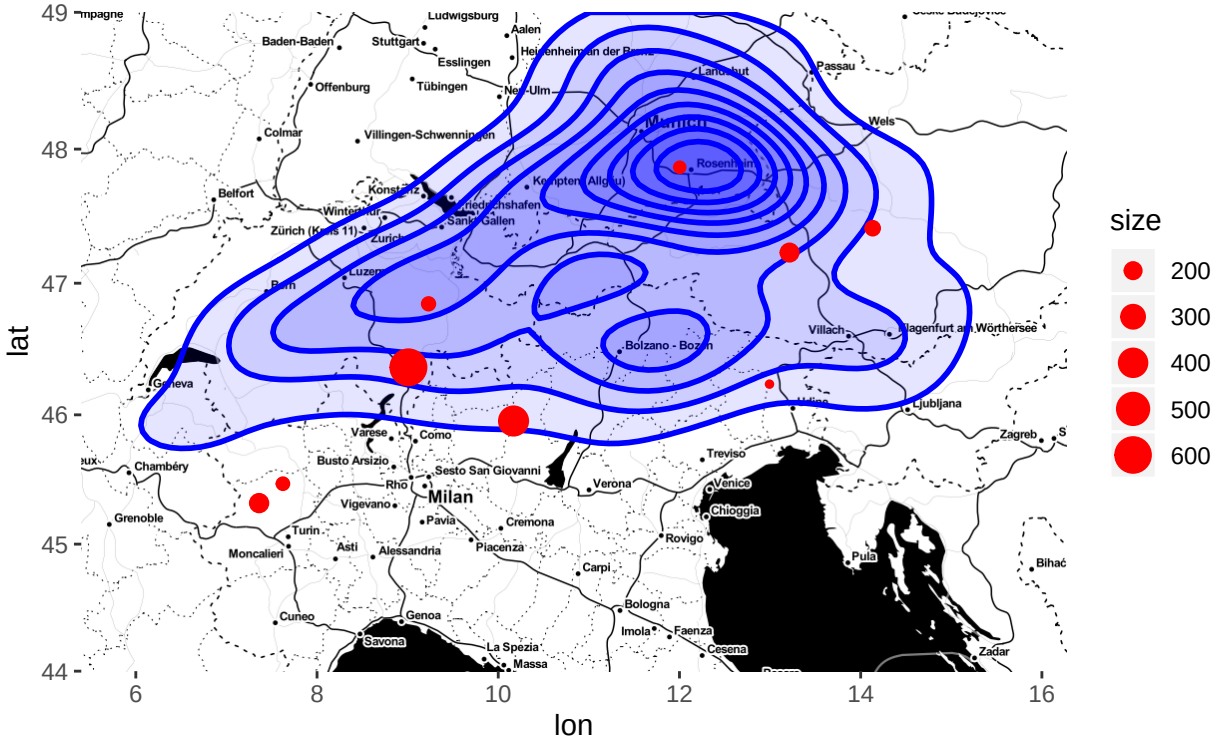
```
## Warning: Removed 48 rows containing non-finite values (stat_density2d).
```




```
# 2D Dichteplot der Verteilung der Einträge in die Datenbank
uniquepoints <- readRDS("uniquepoints.RDS")
plt3 <- plt2 +
  geom_point(aes(x = lng, y = lat, size = count), data = uniquepoints, col = "red")
plt3
```

```
## Warning: Removed 48 rows containing non-finite values (stat_density2d).
```

```
## Warning: Removed 1 rows containing missing values (geom_point).
```




```
# Lokationen der 10 "Poweruser"; Also der 10 Benutzer welche die meisten Beiträge
# zur Datenbank hinzufügten.
```

```
require(sf)
```

```
## Loading required package: sf
```

```
## Linking to GEOS 3.6.1, GDAL 2.2.3, PROJ 4.9.3
```

```
require(raster)
```

```
## Loading required package: raster
```

```
## Loading required package: sp
```

```
require(sp)
require(mapview)
```

```
## Loading required package: mapview
```

```r
crowd01 <- read.csv("~/statprakt/crowd01.csv", encoding = "UTF-8", sep = ",")
coords <- crowd01$Georeferenz
coords <- as.character(coords)

geo <- sub("POINT", "", coords)
geo <- sub("\\(", "", geo)
geo <- sub("\\)", "", geo)

list2 <- stringr::str_split(geo, " ")
one <- sapply(list2, `[[`, 1)
two <- sapply(list2, `[[`, 2)

Breite_crowd01 <- two
Laenge_crowd01 <- one

Breite_crowd01 <- as.numeric(Breite_crowd01)

Laenge_crowd01 <- as.numeric(Laenge_crowd01)

## Kenngrößen
mean(Breite_crowd01)
```

```
## [1] 47.18558
```

```r
#47.18558
mean(Laenge_crowd01)
```

```
## [1] 11.11622
```

```r
#11.11622
#Mittelpunkt(11.11622 47.18558)

##Streuung
var(Breite_crowd01)
```

```
## [1] 0.970931
```

```r
#0.970931
var(Laenge_crowd01)
```

```
## [1] 3.41473
```

```r
#3.41473

sd(Breite_crowd01)
```

```
## [1] 0.9853583
```

```r
#0.9853583
sd(Laenge_crowd01)
```

```
## [1] 1.847899
```

```r
#1.847899

range(Breite_crowd01)
```

```
## [1] 37.67845 50.38564
```

```r
#37.67845 50.38567
range(Laenge_crowd01)
```

```
## [1]  5.397995 16.268321
```

```r
#5.397995 16.268321

## Kenngrößen Zusammenfassung
summary(Laenge_crowd01)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   5.398   9.870  11.618  11.116  12.313  16.268
```

```r
# Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
#5.398   9.870  11.618  11.116  12.313  16.268

summary(Breite_crowd01)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   37.68   46.47   47.15   47.19   47.84   50.39
```

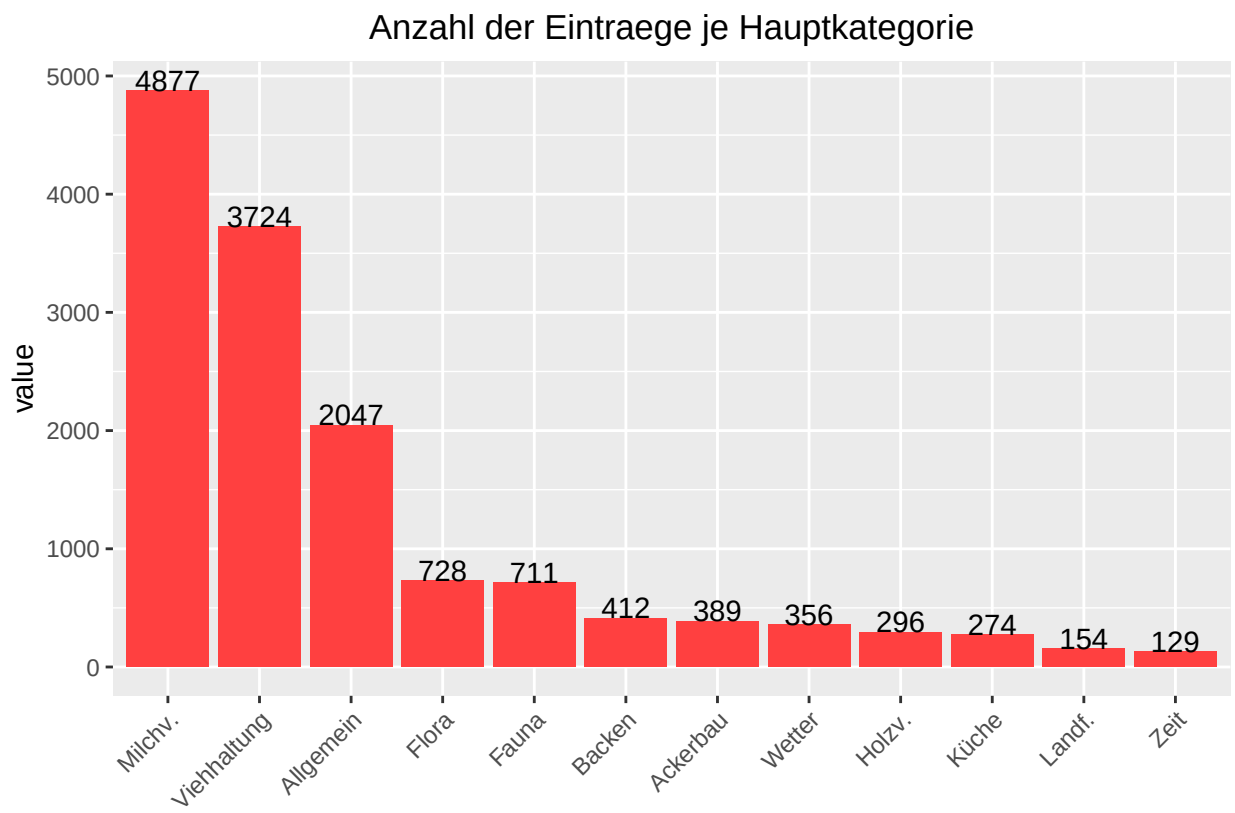
```r
# Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
#37.68   46.47   47.15   47.19   47.84   50.39
```

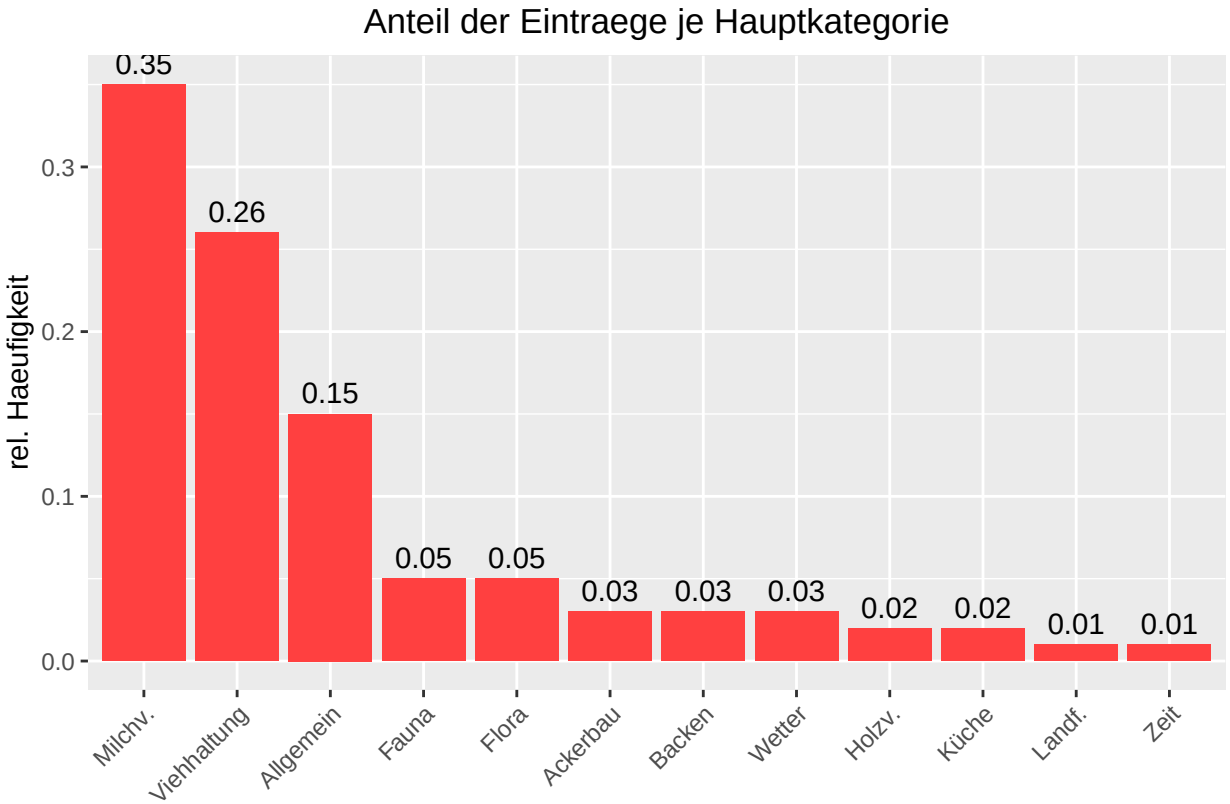
```
##
##               Ackerbau              Allgemein                  Backen
##                    389                   2047                    412
##                 Fauna                  Flora       Holzverarbeitung
##                    711                    728                    296
##                 Küche Landschaftsformationen      Milchverarbeitung
##                    274                    154                   4877
##            Viehhaltung                Wetter                   Zeit
##                   3724                    356                    129
```

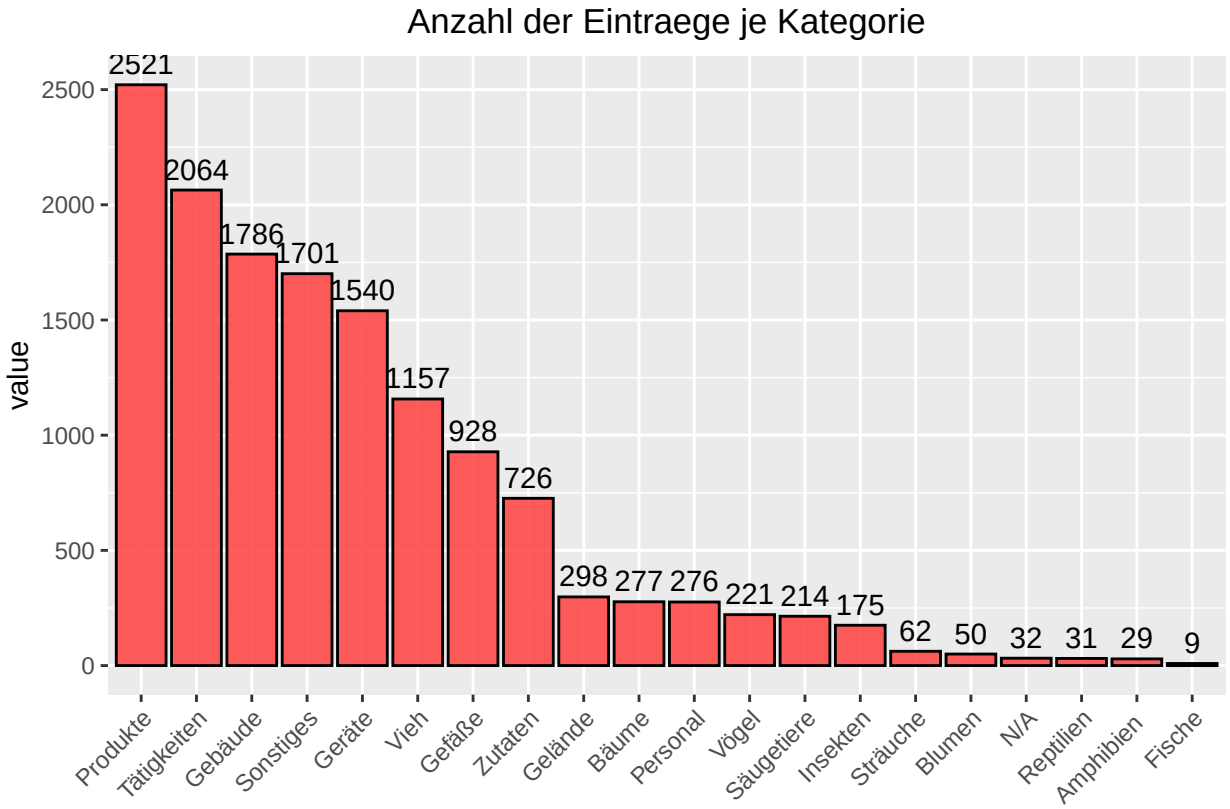
```
## [1] 9
```

```
## [1] 6
```

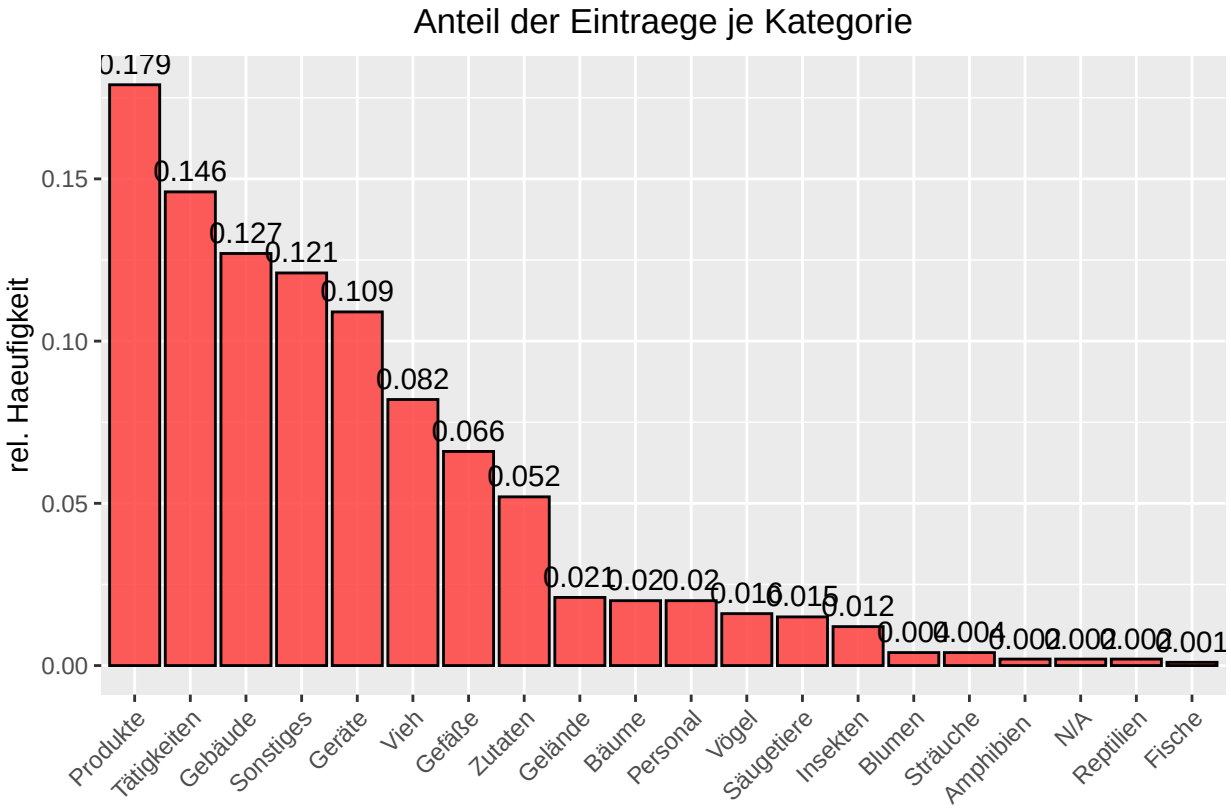
```
## [1] 8
```


Anzahl der Eintraege je Hauptkategorie
value
5000
4000
3000
2000
1000
0
4877
3724
2047
728
711
412
389
356
296
274
154
129
Milchv.
Viehhaltung
Allgemein
Flora
Fauna
Backen
Ackerbau
Wetter
Holzv.
Küche
Landf.
Zeit


Anteil der Eintraege je Hauptkategorie
rel. Haeufigkeit
0.0
0.1
0.2
0.3
0.35
0.26
0.15
0.05
0.05
0.03
0.03
0.03
0.02
0.02
0.01
0.01
Milchv.
Viehhaltung
Allgemein
Fauna
Flora
Ackerbau
Backen
Wetter
Holzv.
Küche
Landf.
Zeit




```
## [1] 0.028 0.145 0.029 0.050 0.052 0.021
```


Anteil der Eintraege je Kategorie
rel. Haeufigkeit
0.00
0.05
0.10
0.15
0.179
0.146
0.127
0.121
0.109
0.082
0.066
0.052
0.021
0.02
0.02
0.016
0.015
0.012
0.004
0.004
0.002
0.002
0.002
0.001
Produkte
Tätigkeiten
Gebäude
Sonstiges
Geräte
Vieh
Gefäße
Zutaten
Gelände
Bäume
Personal
Vögel
Säugetiere
Insekten
Blumen
Sträuche
Amphibien
N/A
Reptilien
Fische