# **Vision Zero - Testing**

## Packages:

```
library(sf)

Linking to GEOS 3.11.2, GDAL 3.8.2, PROJ 9.3.1; sf_use_s2() is TRUE

library(ggplot2)
library(dplyr)

Attache Paket: 'dplyr'

Die folgenden Objekte sind maskiert von 'package:stats':
    filter, lag

Die folgenden Objekte sind maskiert von 'package:base':
    intersect, setdiff, setequal, union

library(jsonlite)
```

## **Loading and Cleaning Data**

Loading dataframes (GeoJSON Format)

```
Reading layer `strassen_wege' from data source
  `C:\Users\micha\OneDrive\Dokumente\GitHub\Kerstin_Michael\Test_M\strassen_wege.geojson'
  using driver `GeoJSON'
Simple feature collection with 7688 features and 8 fields
Geometry type: LINESTRING
Dimension:
Bounding box: xmin: 7.555919 ymin: 47.51977 xmax: 7.693801 ymax: 47.60093
Geodetic CRS: WGS 84
Reading layer `velorouten' from data source
  `C:\Users\micha\OneDrive\Dokumente\GitHub\Kerstin_Michael\Test_M\velorouten.geojson'
  using driver `GeoJSON'
Simple feature collection with 21 features and 9 fields
Geometry type: LINESTRING
Dimension:
Bounding box: xmin: 7.55692 ymin: 47.53042 xmax: 7.657115 ymax: 47.59597
Geodetic CRS: WGS 84
Reading layer `unfaelle' from data source
  `C:\Users\micha\OneDrive\Dokumente\GitHub\Kerstin_Michael\Test_M\unfaelle.geojson'
  using driver `GeoJSON'
Simple feature collection with 10848 features and 12 fields
Geometry type: POINT
Dimension:
Bounding box: xmin: 7.556191 ymin: 47.52373 xmax: 7.692592 ymax: 47.60021
Geodetic CRS: WGS 84
Specific dataframes:
strassen_wege_hvs <- strassen_wege %>% filter(snh == "HVS")
unfaelle_velo_23 <- unfaelle %>% filter(fahrrd_bet == "true"
```

& jahr == "2023"

& typ != "Fussgängerunfall"
& typ != "Parkierunfall")

### **Plotting Data**

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```
p <- ggplot() +
  geom_sf(data = strassen_wege, color = "grey", size = 1, alpha = 0.5) +
  geom_sf(data = strassen_wege_hvs, color = "purple", size = 10, alpha = 0.3) +
  geom_sf(data = velorouten, color = "darkgreen", size = 10, alpha = 0.3) +
  geom_sf(data = unfaelle_velo_23, color = "red", size = 0.1) +
  theme_void() +
  labs(title = "Comparison of Veloroutes and Mainstreet (Accidents 2023)") +
  theme(legend.position = "none")</pre>
```

#### Comparison of Veloroutes and Mainstreet (Accidents 2023)

