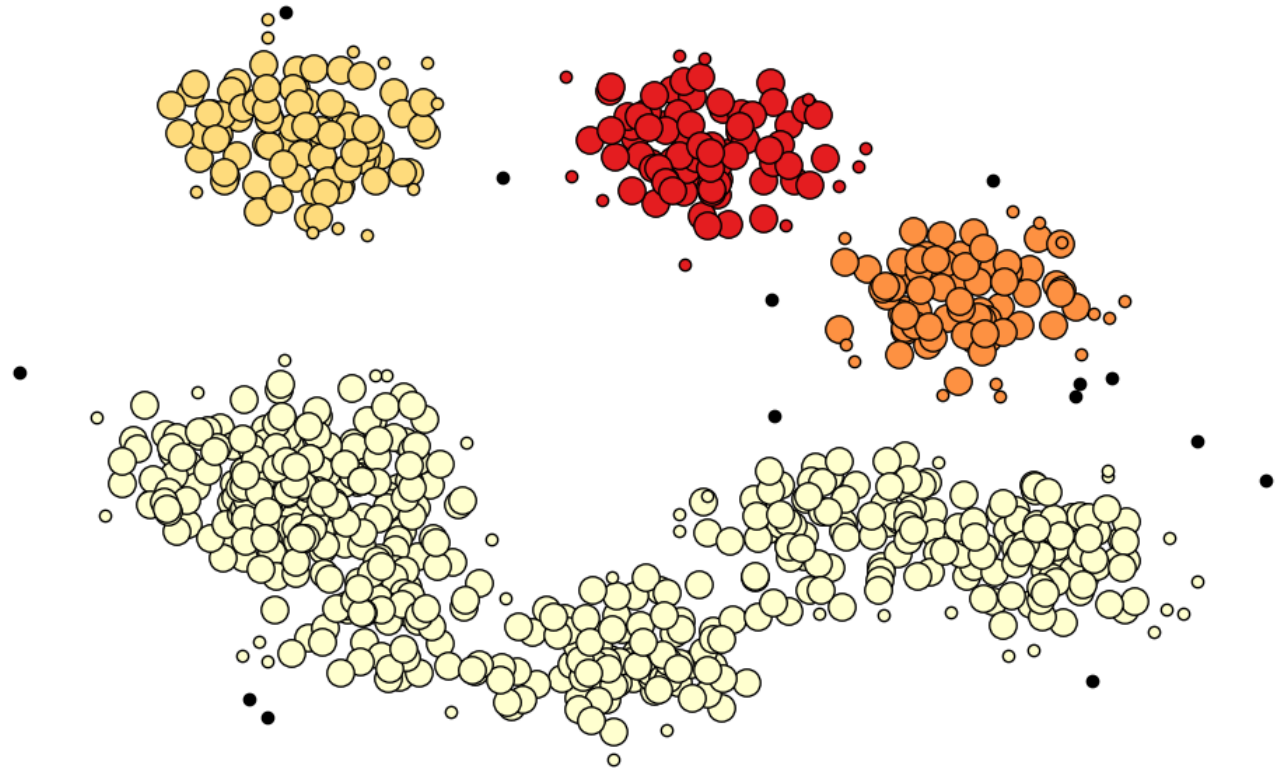
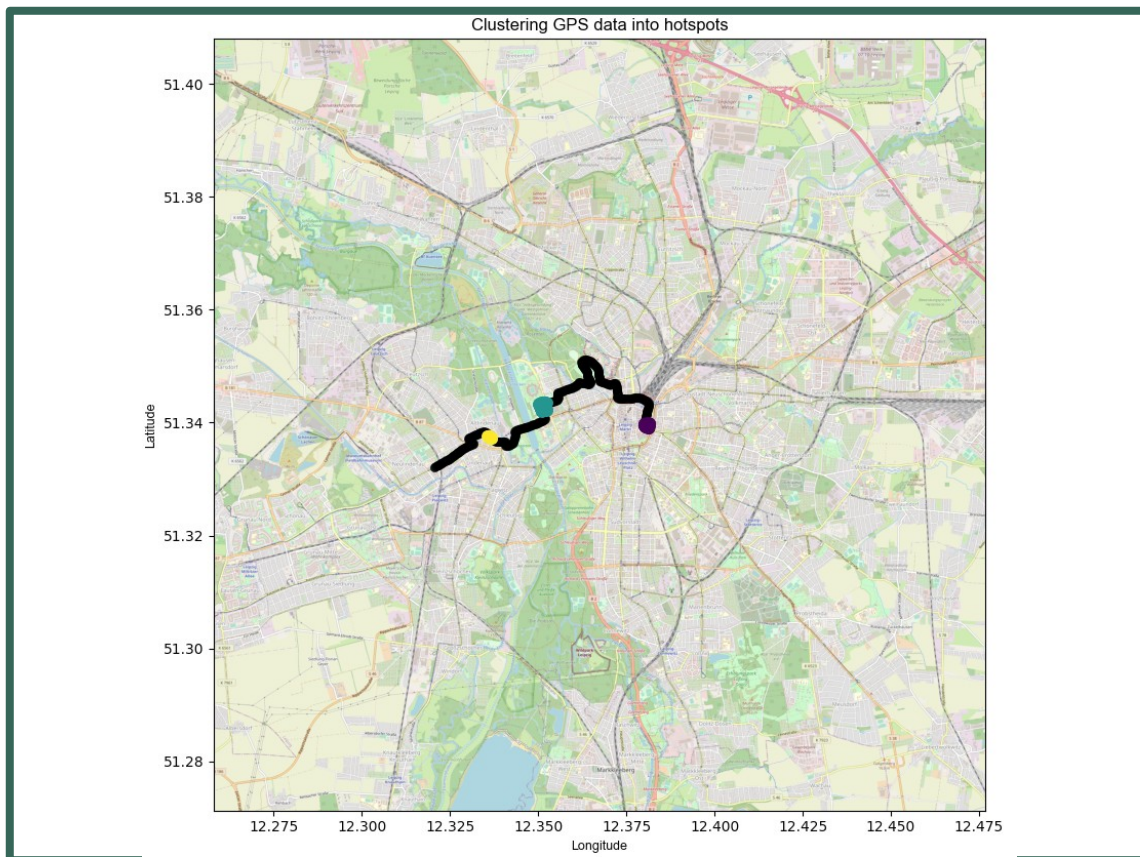


AUSSICHT CLUSTERANALYSE

- Was ist eine Clusteranalyse?
 - Auswertung Datenbestandes nach Ähnlichkeitsstrukturen
- Wofür?
 - Ermöglicht Aussagen über Datenbestand
 - Intuitive visuelle Ansicht schaffen



AUSGABE AUF DER KARTE



```
imData = plt.imread('map.png')
```

```
fig, ax = plt.subplots()
```

```
ax.scatter(outliers_df['long'], outliers_df['lat'],  
c=color_outliers, edgecolors='black', s=30,  
alpha=0.5)
```

```
ax.scatter(clusters_df['long'], clusters_df['lat'], c=colors_clusters, s=50)
```

```
ax.set_xlabel('Longitude', family='Arial', fontsize=9)  
ax.set_ylabel('Latitude', family='Arial', fontsize=9)
```

```
ax.imshow(imData, extent=[12.25800, 12.47678, 51.27130,  
51.40799])
```

```
ax.set_aspect(1.0/ax.get_data_ratio(), adjustable='box')  
plt.title('Clustering GPS data into hotspots', family='Arial', fontsize=12)
```

```
plt.show()
```