



Najczęściej używane słowa!?

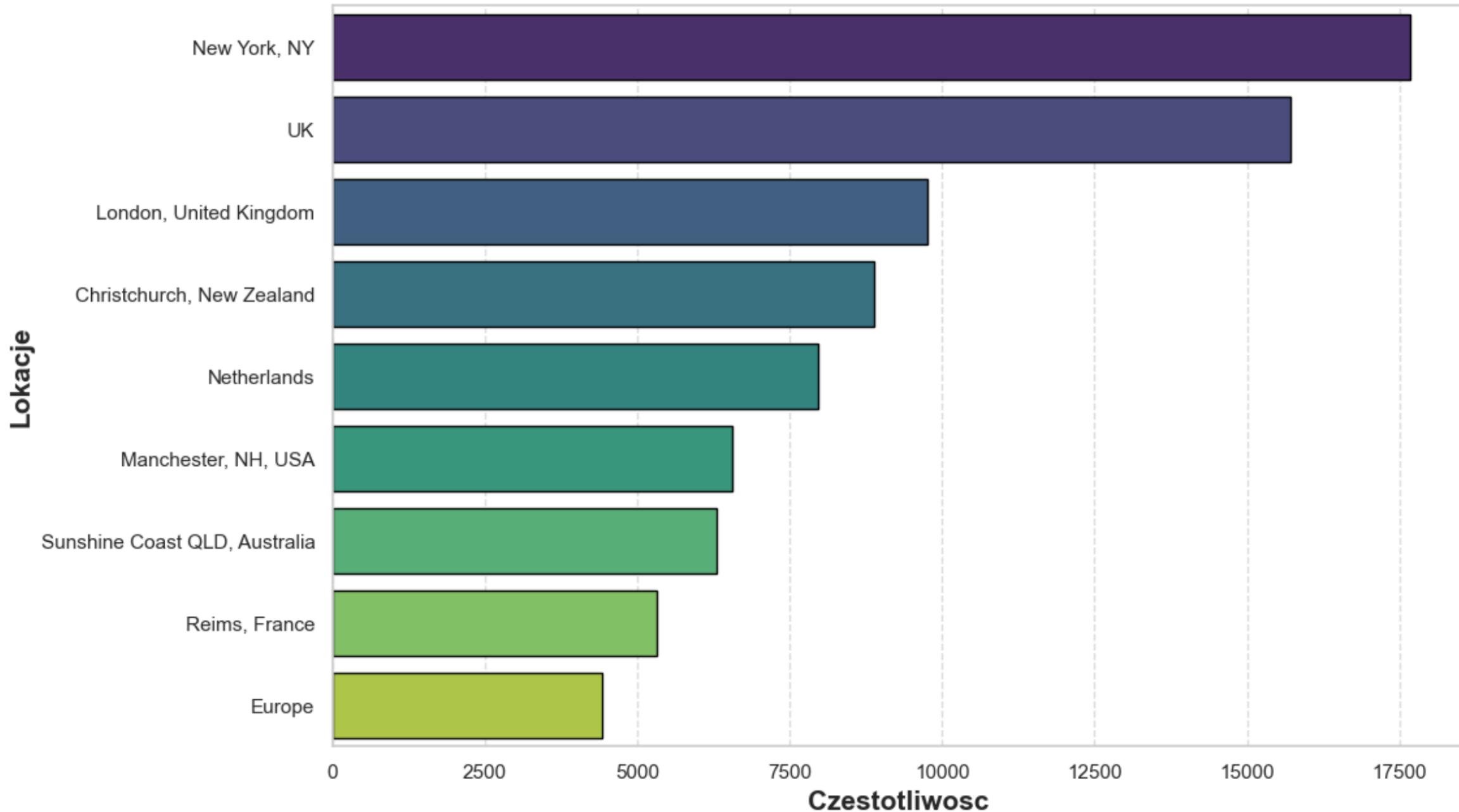
Preferowane destynacje użytkowników!?

Czy piszą o pogodzie!?

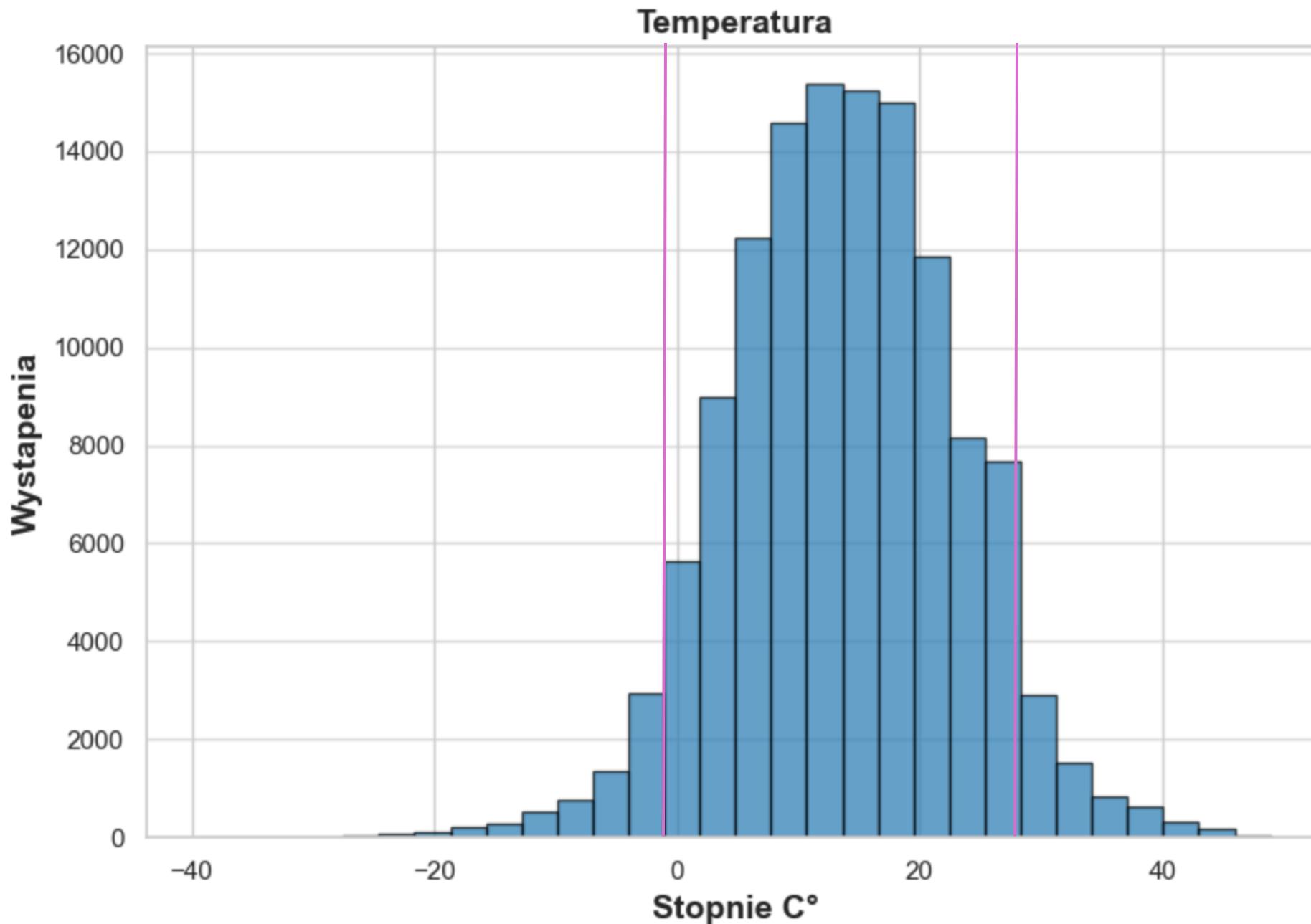
- Połączymy pogodę z postami
- Podzielimy posty na grupy w zależności od pogody
- Zrobimy obróbkę danych tekstowych
- Zrobimy i przeanalizujemy wykresy

# Łączymy Dane

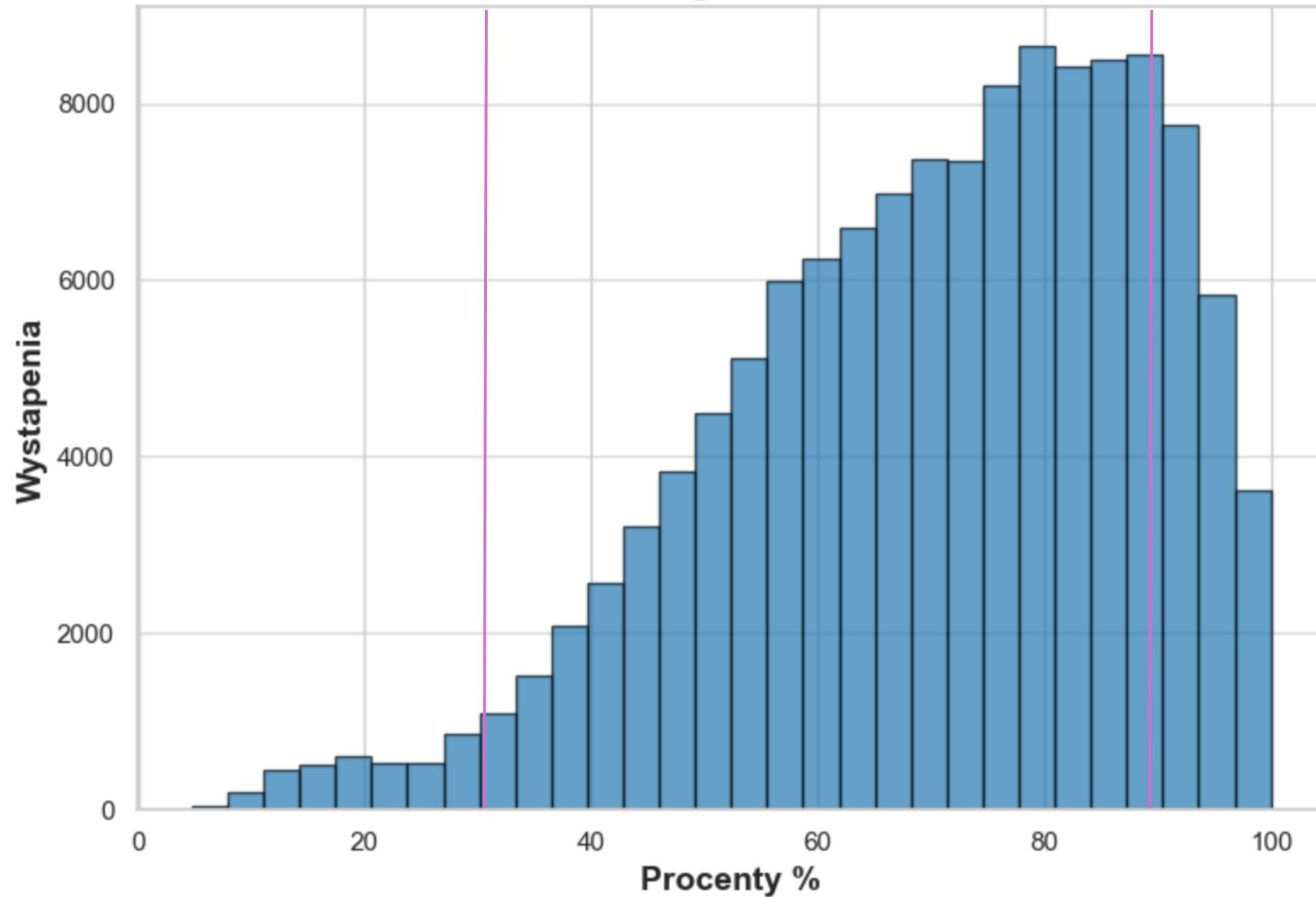
CreationDate_posts	Body	Title	Tags	Location
2011-06-21T20:19:34.730	<p>My fiancée and I are looking for a good Car...	What are some Caribbean cruises for October?	<caribbean><cruising><vacations>	Toronto, Canada



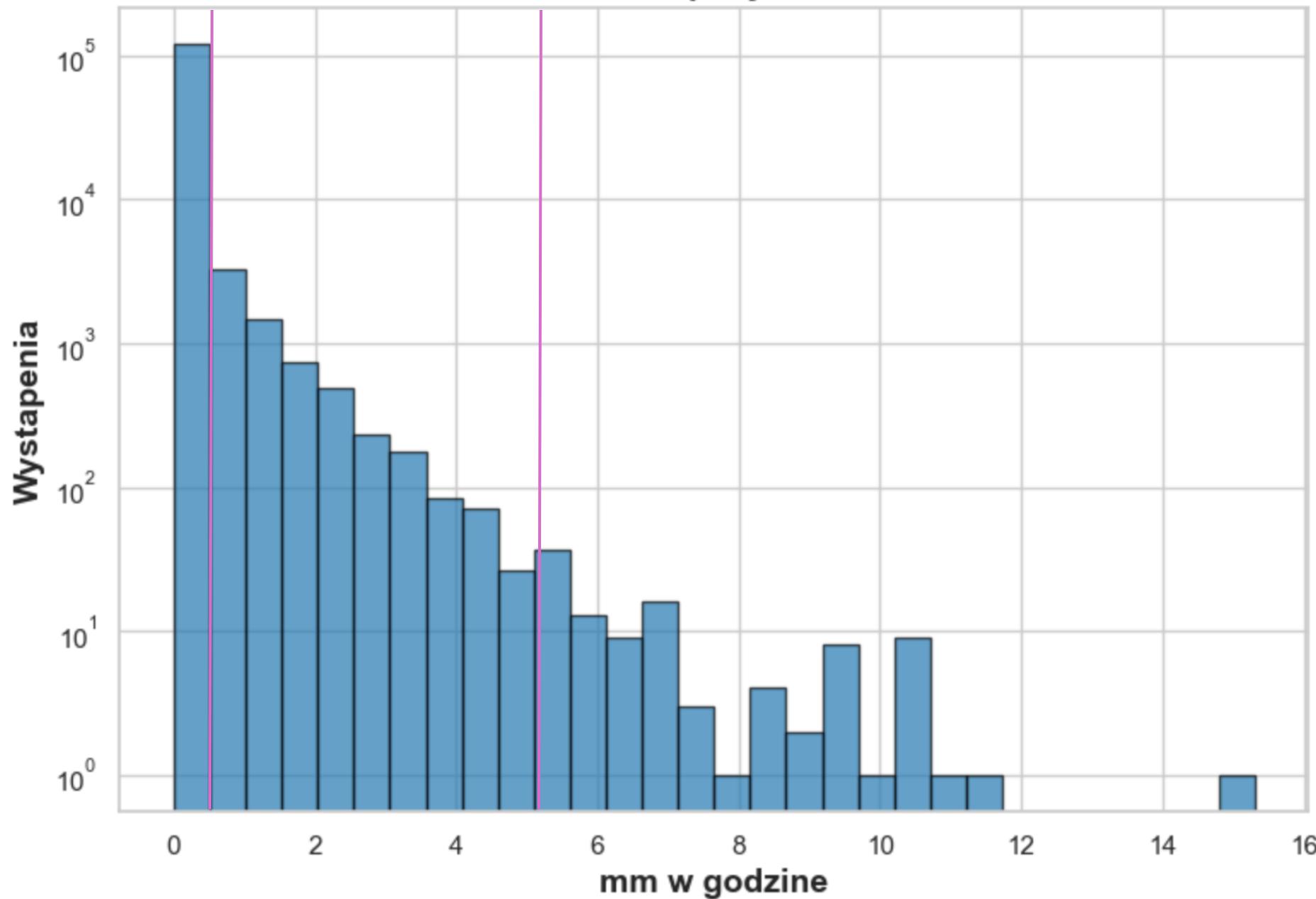
# Rozbijanie danych w grupy



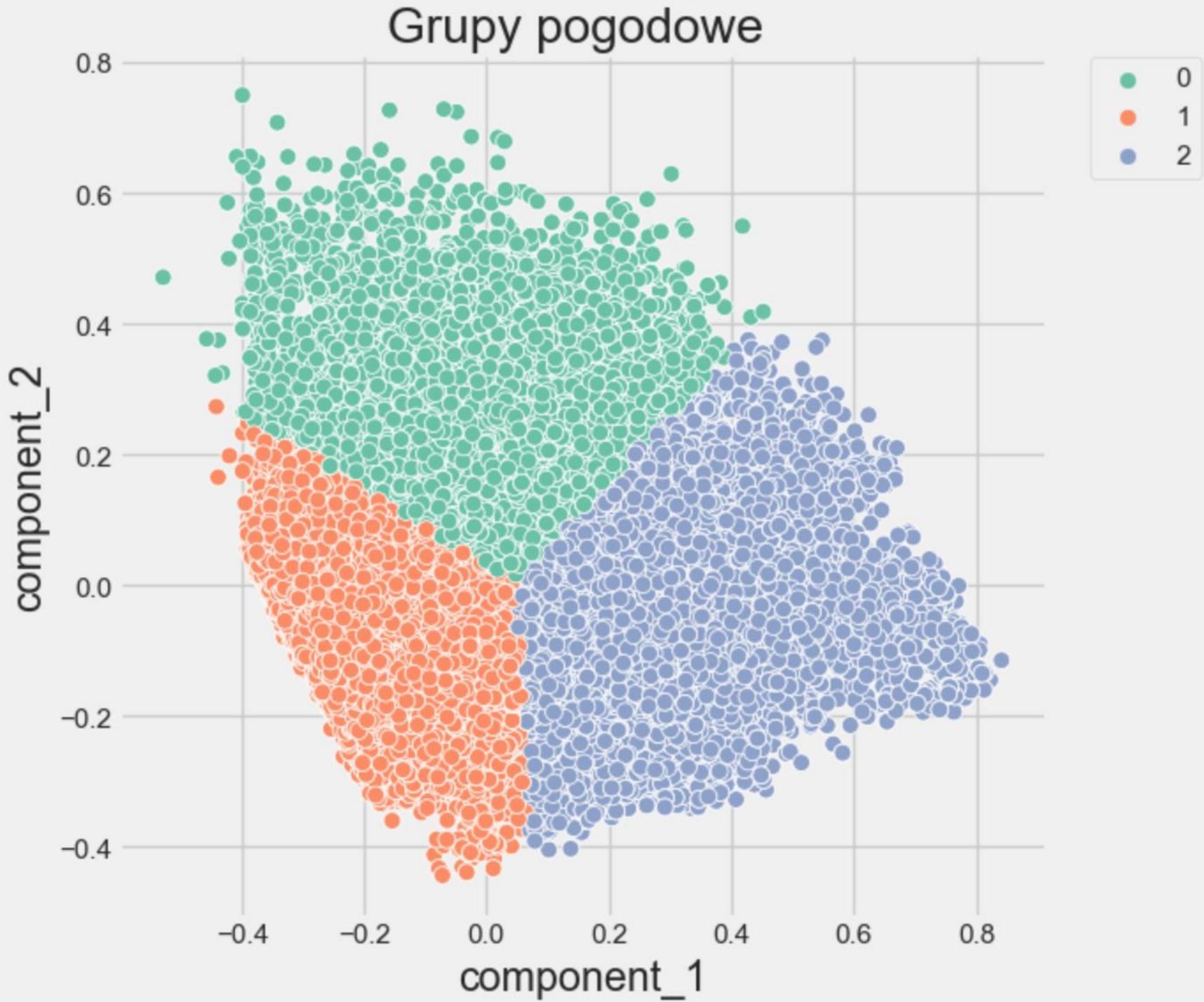
## Wilgontosc



# Opady



# Grupy pogodowe



# Obróbka Tekstu

```
<p>An american software engineer living in Japan  
gives a <a  
href="http://www.kalzumeus.com/2011/03/13/some-  
perspective-on-the-japan-earthquake/"  
rel="noreferrer">good overview of how big Japan  
is</a> and why you shouldn't be afraid to travel  
there after the nuclear accident.</p>  
<p>Essentially, the summary is that Japan is very  
large. It's unlikely that your travel plans as a  
tourist will be anywhere near the accident.</p>  
<p>Source: <a  
href="http://mapfrappe.com/index.html?show=3057" r  
el="noreferrer">http://mapfrappe.com/index.html?sh  
ow=3057</a></p>
```

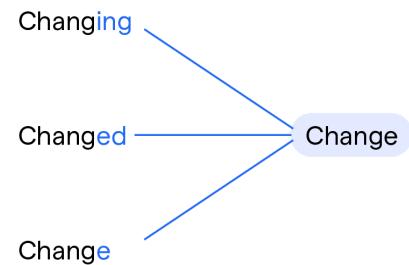


american software engineer live japan give good  
overview big japan shouldnt afraid travel nuclear  
accident essentially summary japan large unlikely  
travel plan tourist anywhere near accident source

### Stop Words

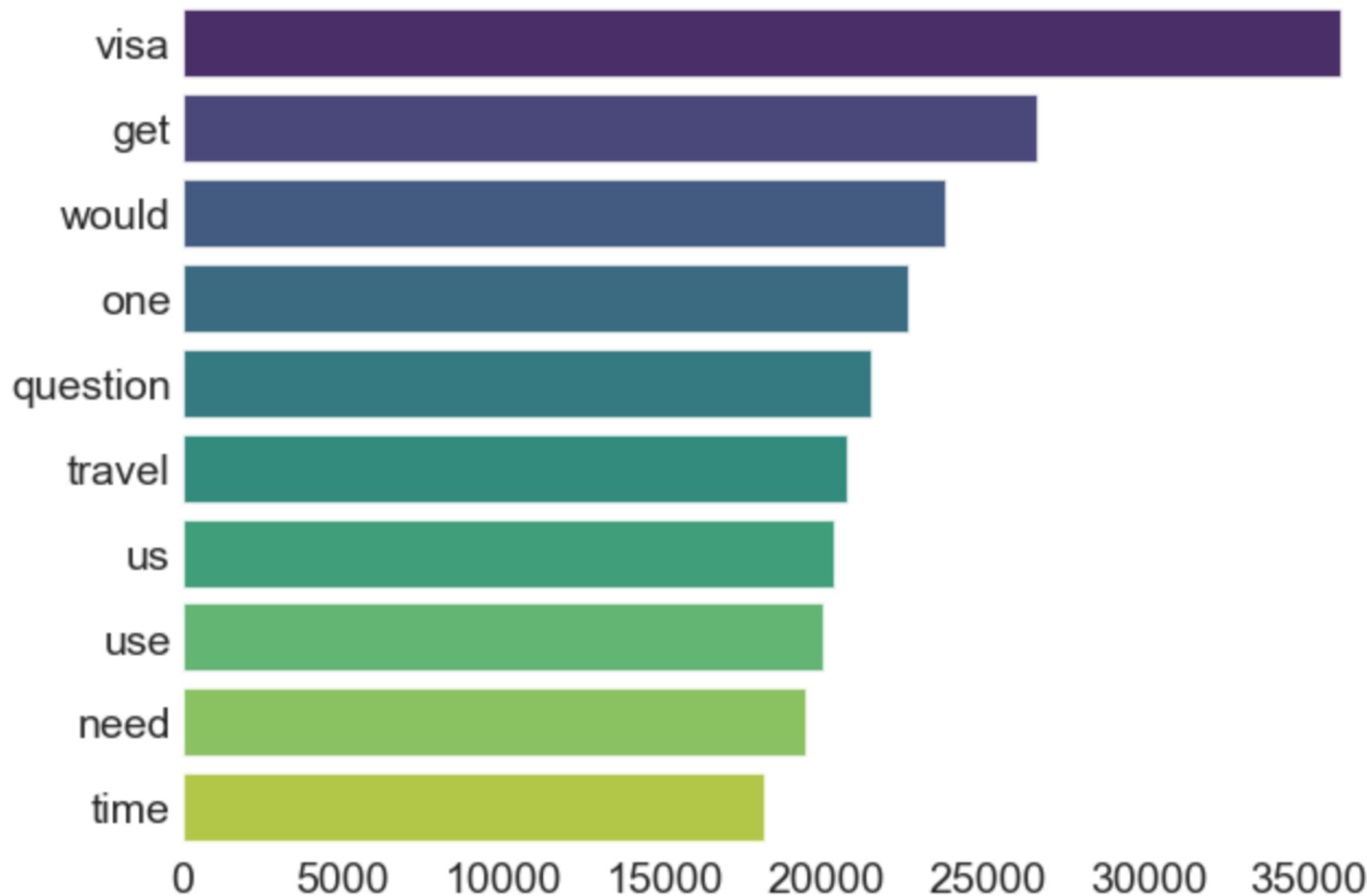
- a      • of      • on
- I      • for      • with
- the     • at      • from
- in      • to

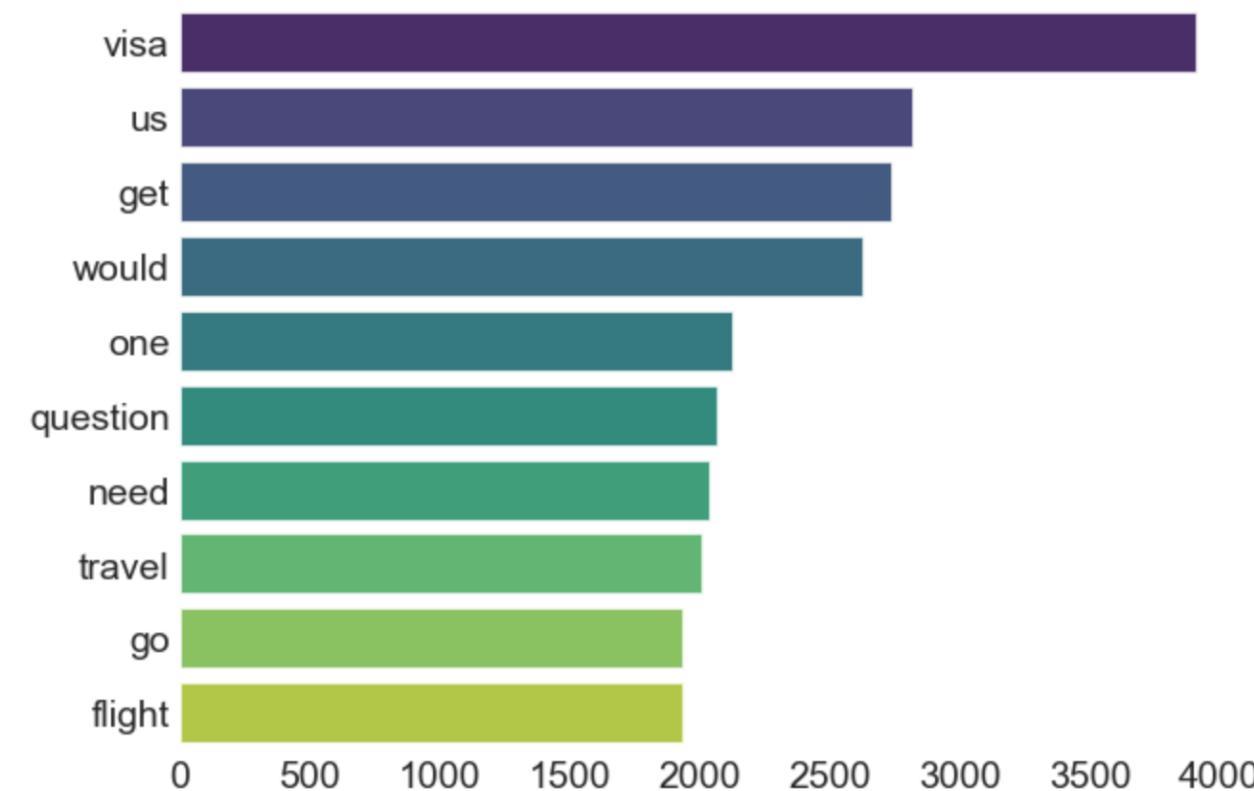
### Lemmatization



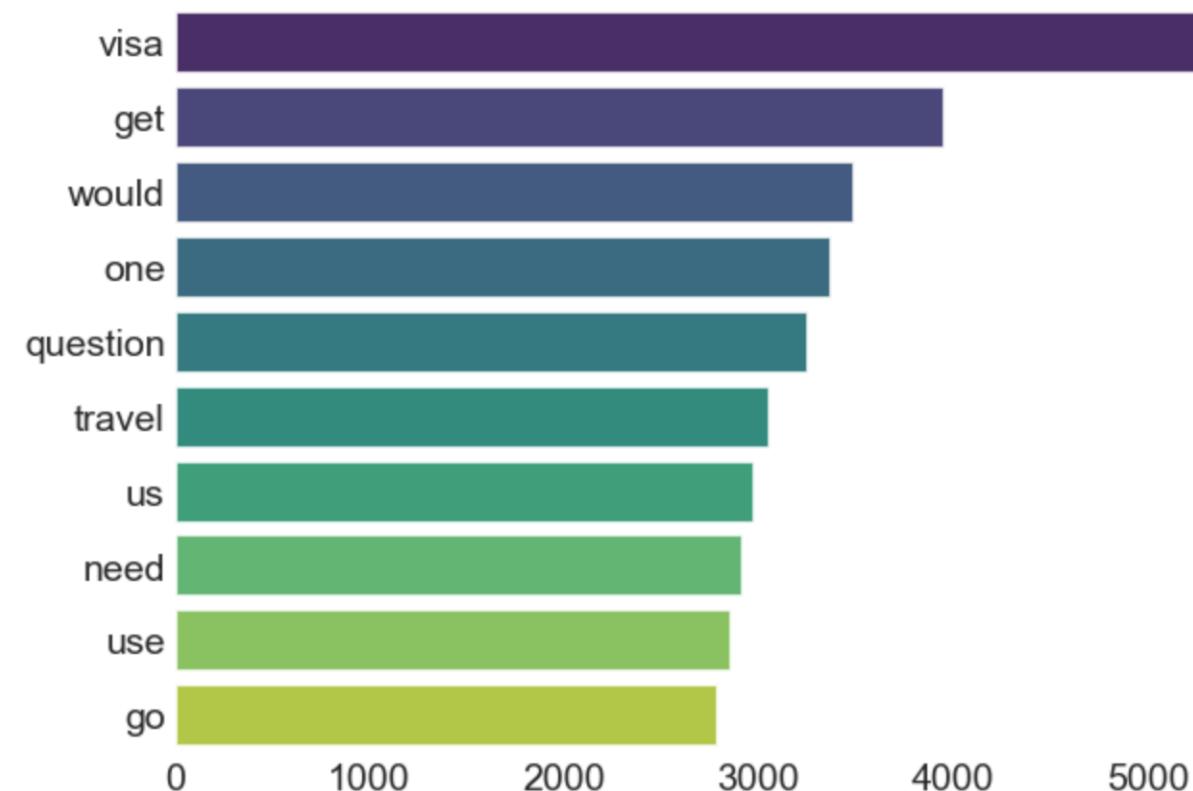
# Wykresiki

# Cały DataSet

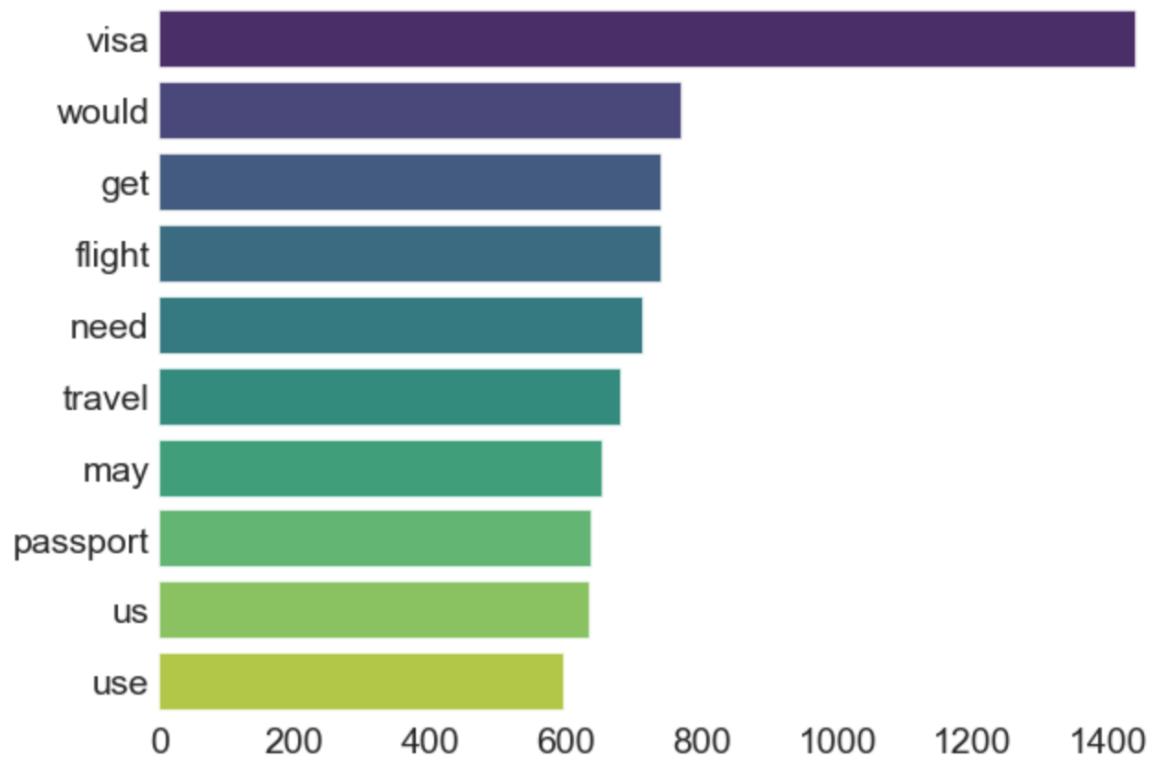




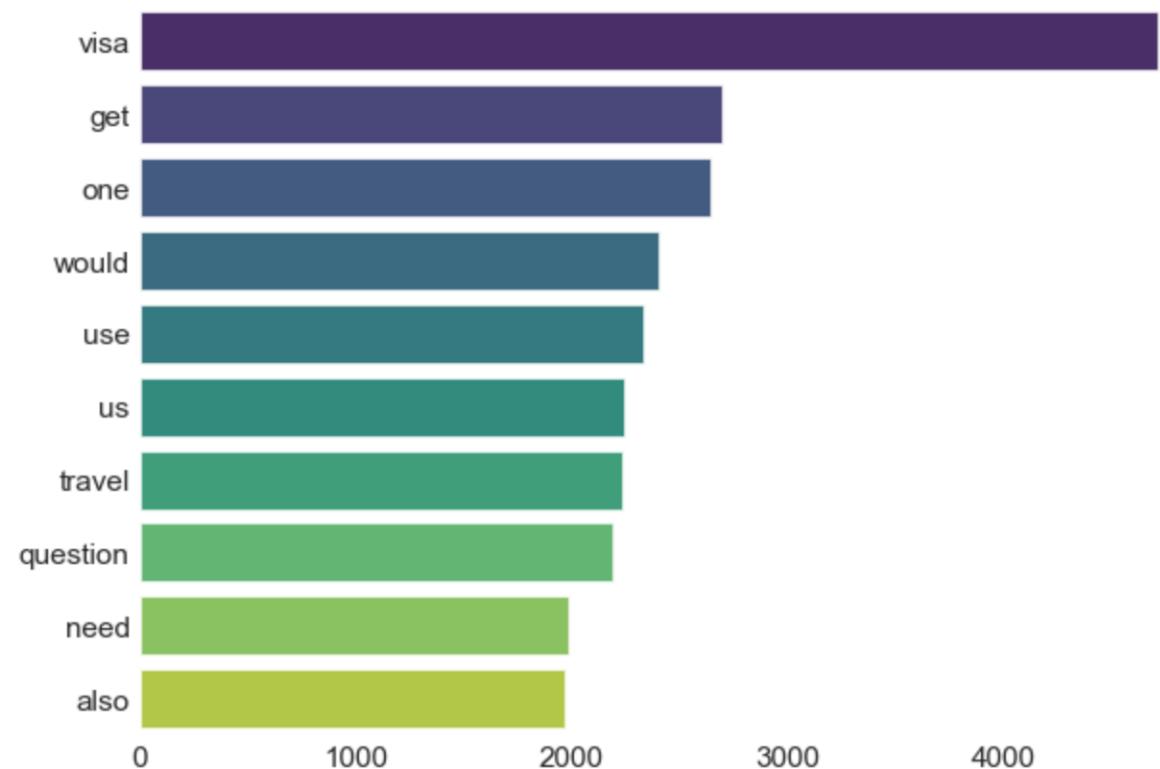
Temperatura 0



Wilgotność 90%



Wilgotność 30



Temperatura 26

## N-grams

$N = 1$  : This is a sentence

*unigrams:*

this,  
is,  
a,  
sentence

$N = 2$  : This is a sentence

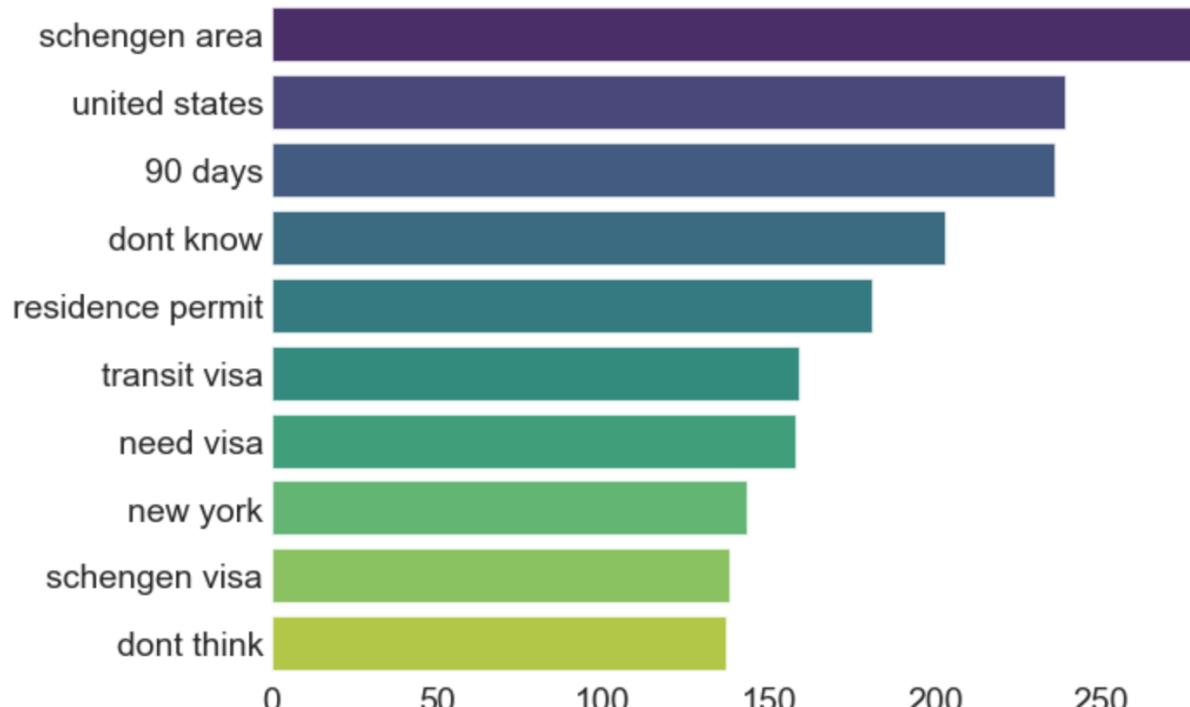
*bigrams:*

this is,  
is a,  
a sentence

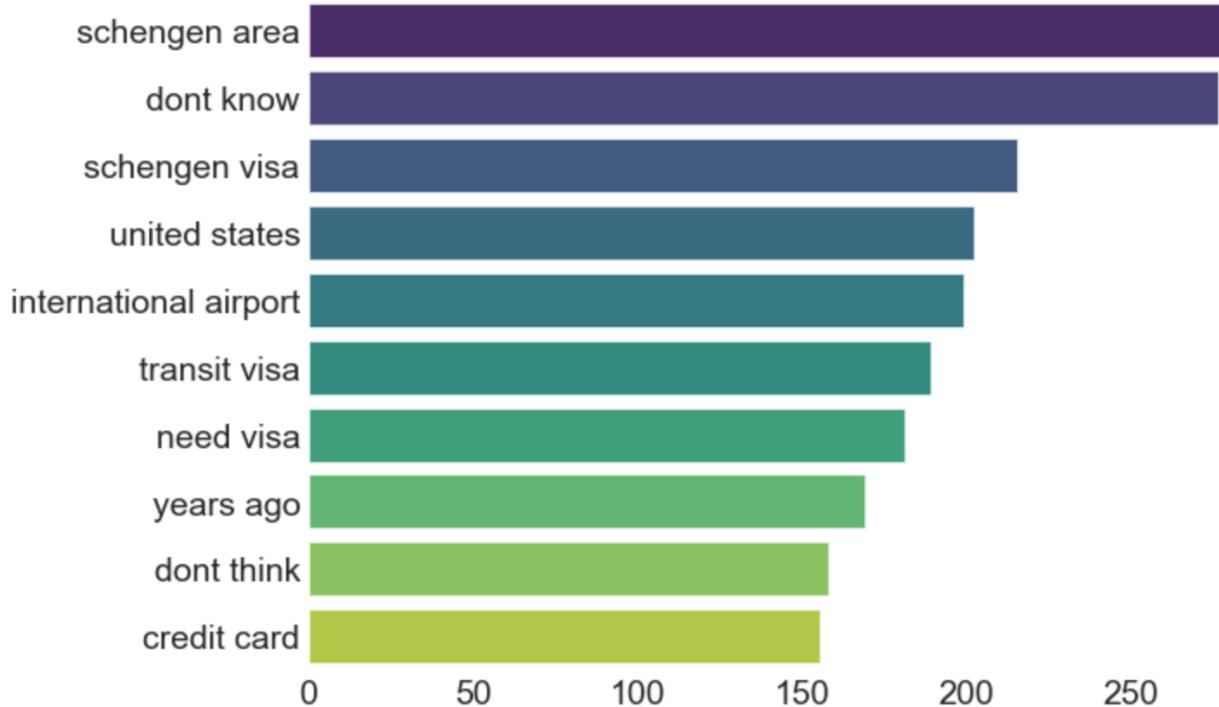
$N = 3$  : This is a sentence

*trigrams:*

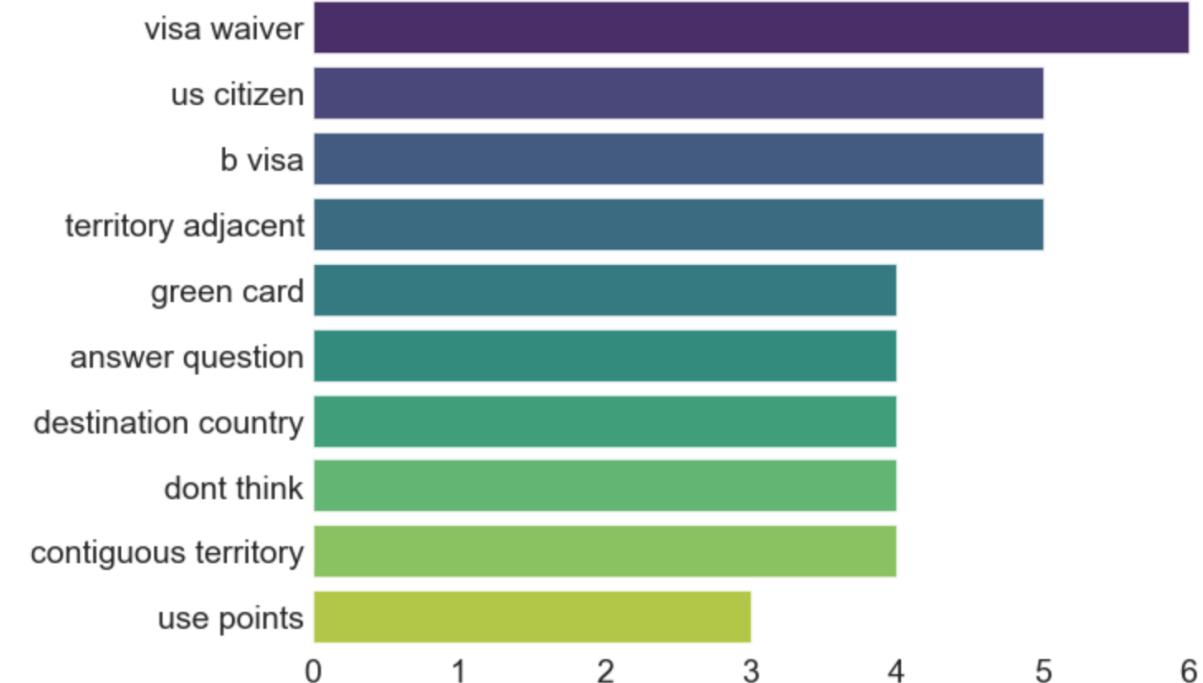
this is a,  
is a sentence



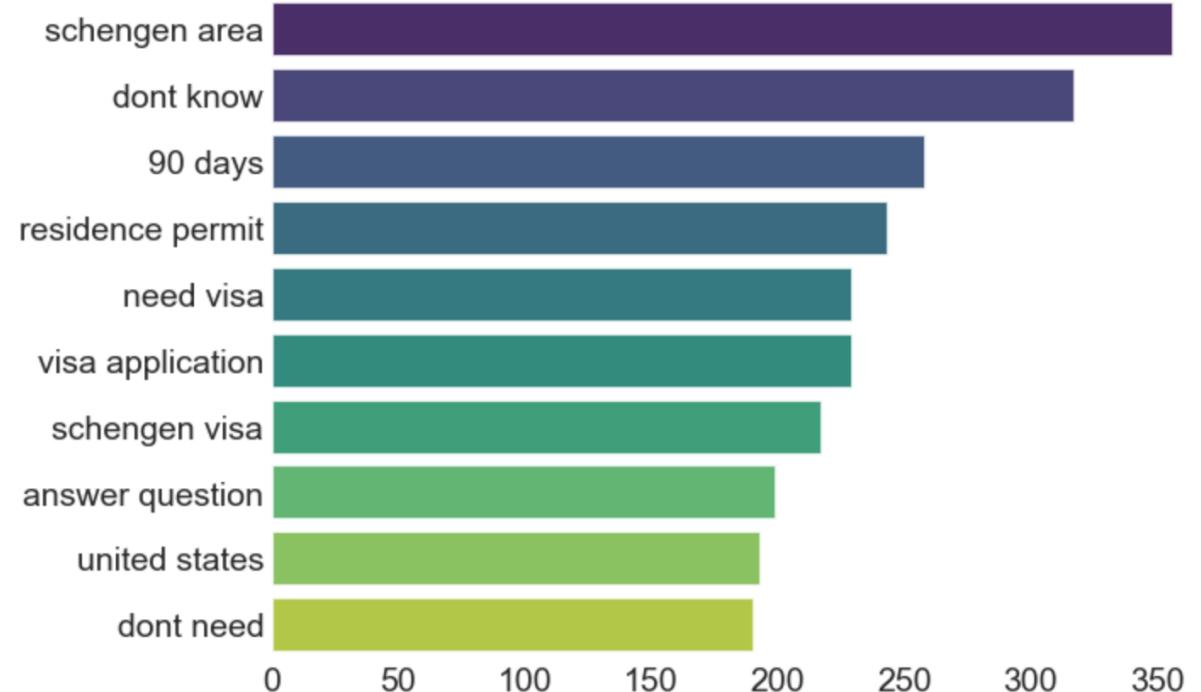
Temperatura 0



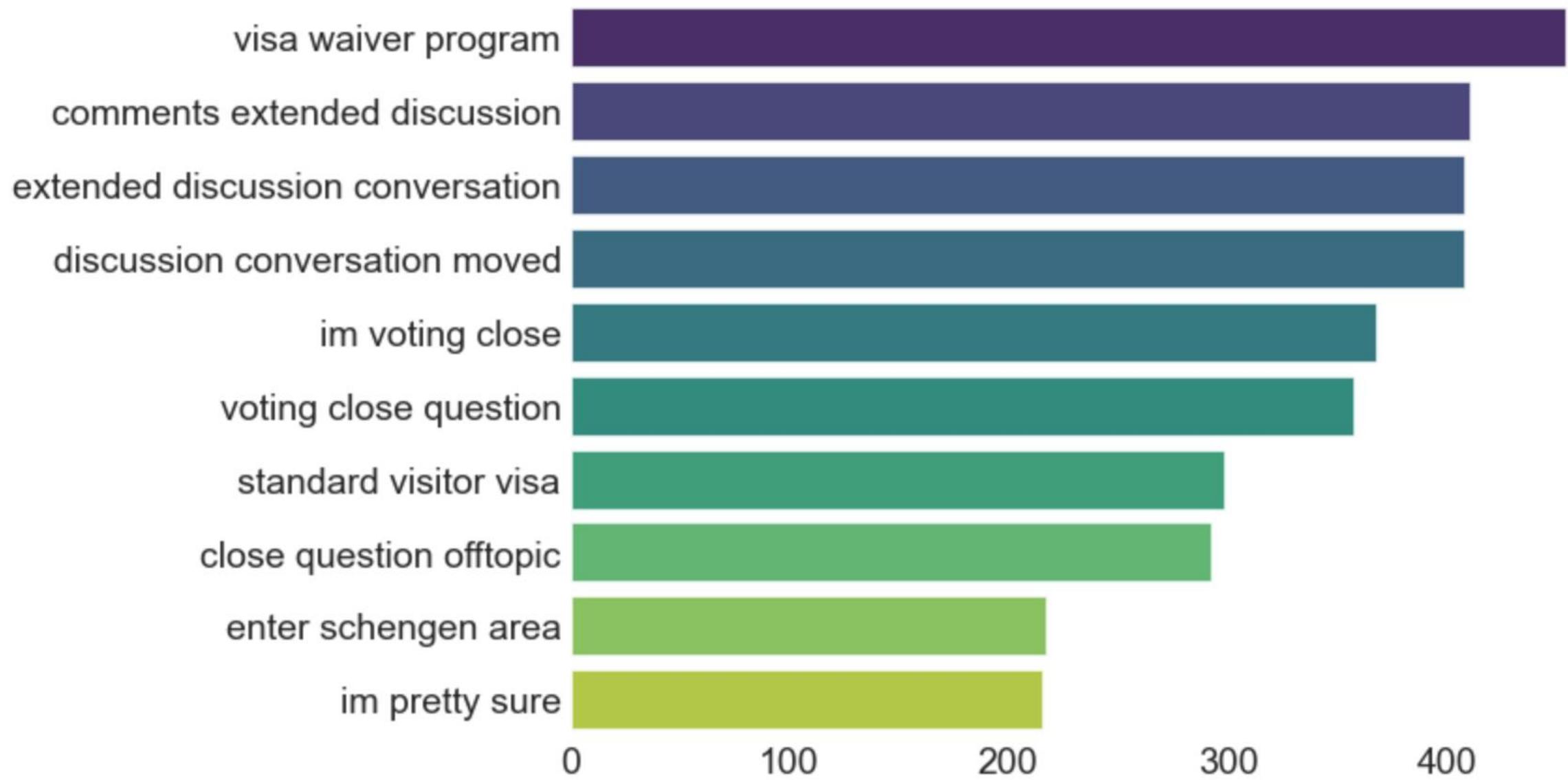
Temperatura 26



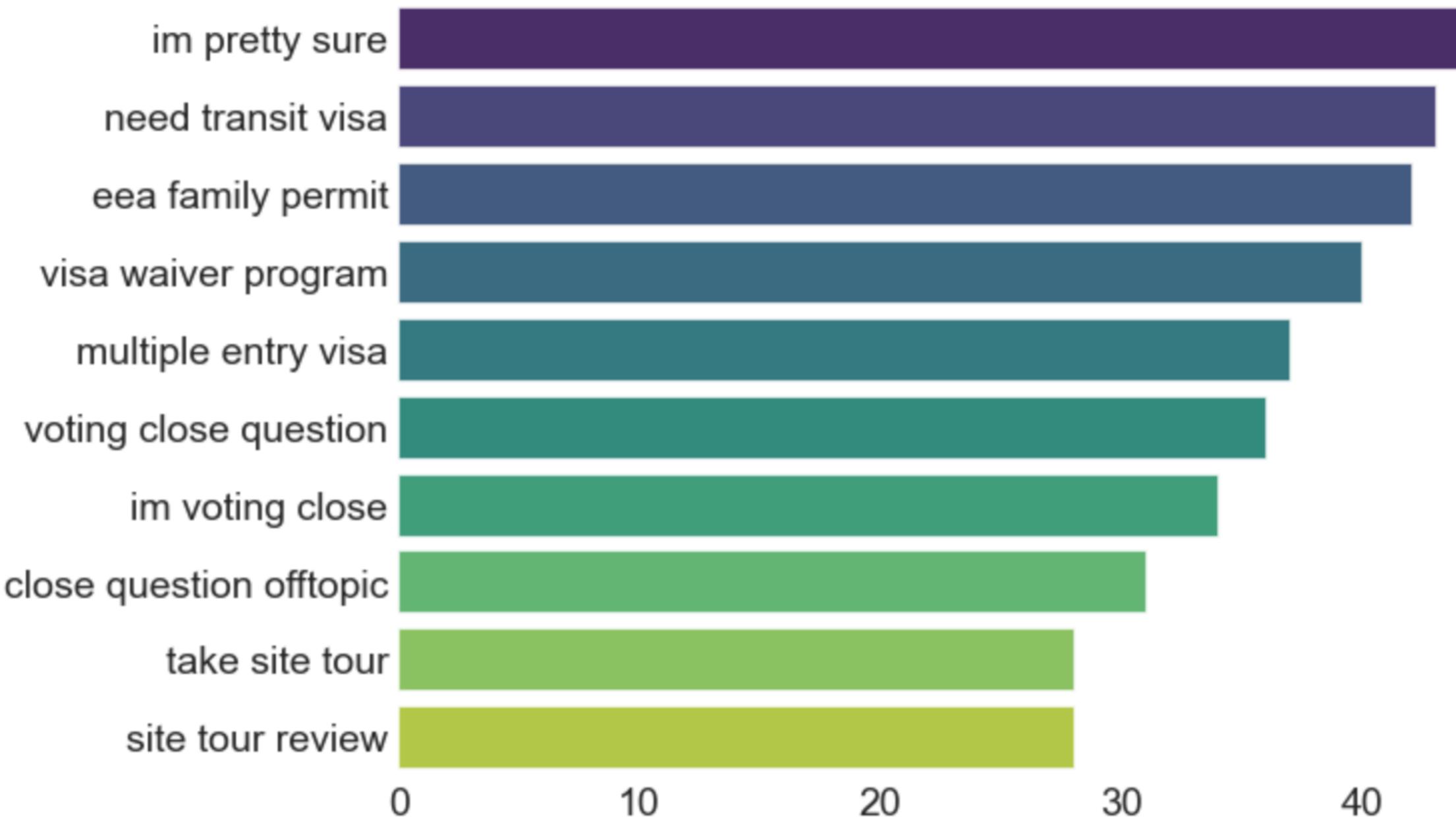
Opady 5mm

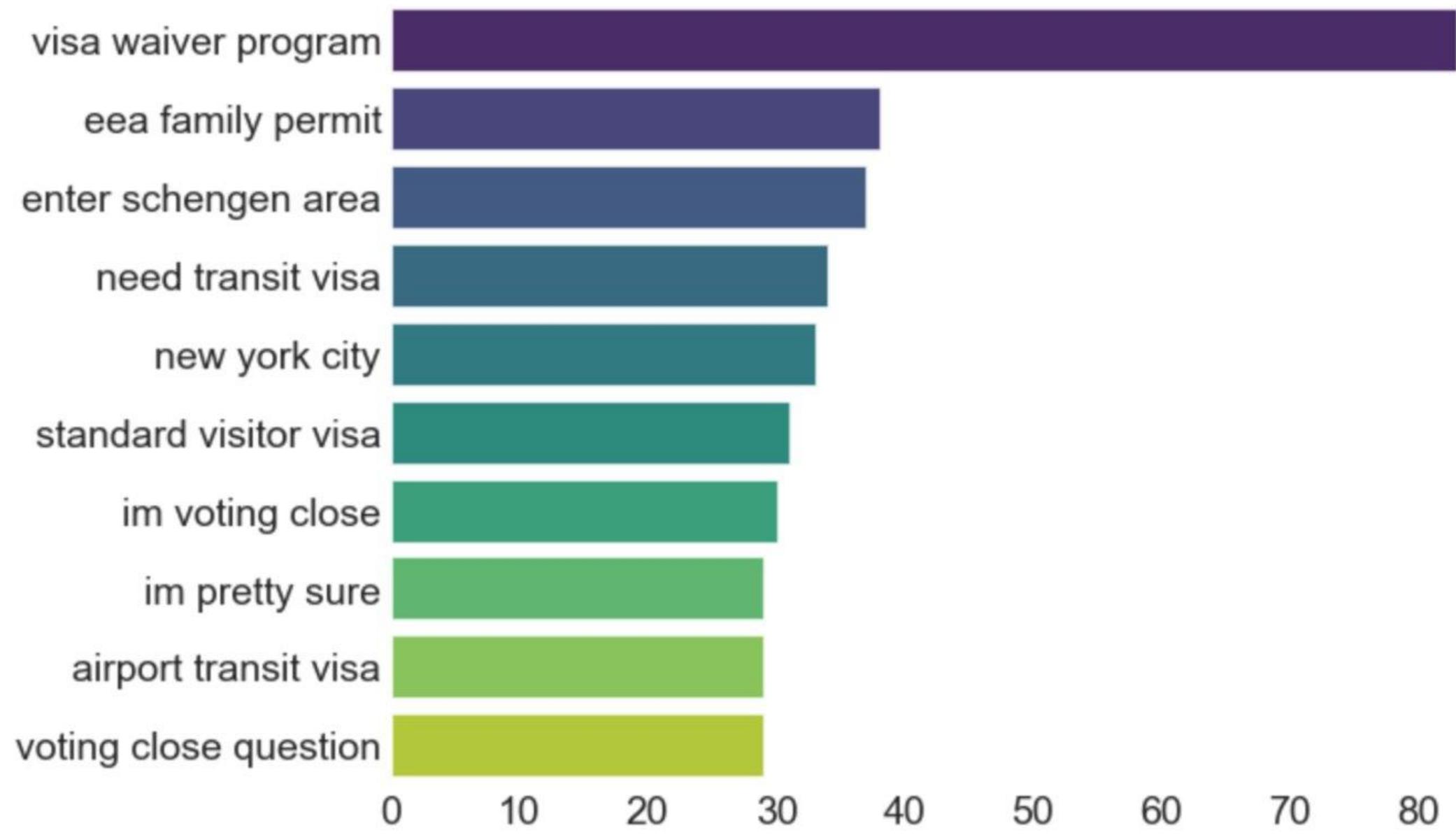


Wilgotność 90%

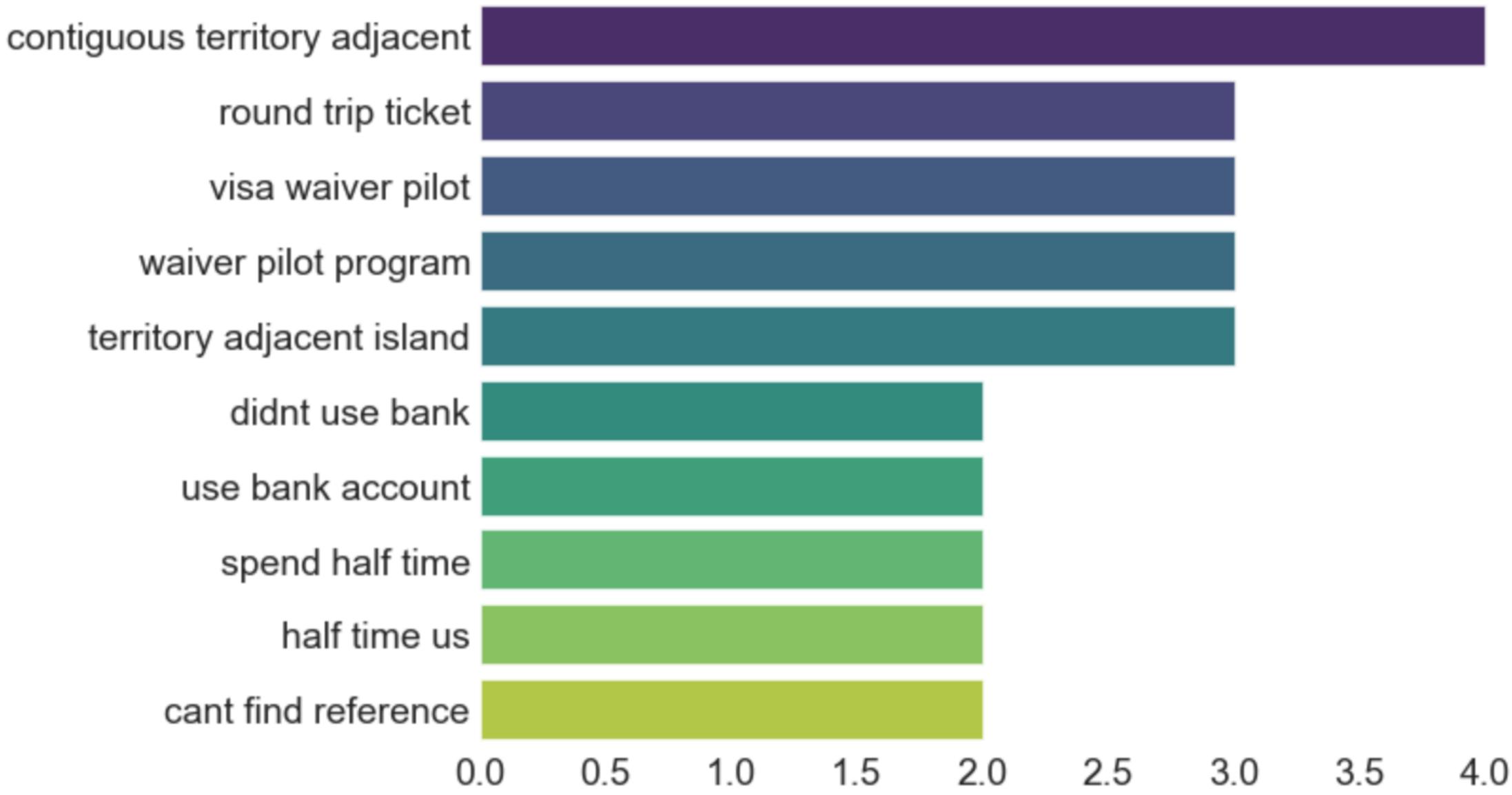


Temperatura 0-26





Temperatura 0



Opady 5mm

```
# Temperature
"\"Warm\"", \"Cold\"", \"Hot\"", \"Chilly\"", \"Freezing\"", \"Boiling\"", \"Mild\"", \"Cool\"",
# Precipitation
"\"Rainy\"", \"Rainfall\"", \"Showers\"", \"Drizzle\"", \"Downpour\"", \"Thunderstorm\"", \"Snowy\"", \"Snowfall\"", \"Blizzard\"", \"Sleet\",
# Wind
"\"Windy\"", \"Wind\"", \"speed\"", \"Gusts\"", \"Breezy\"", \"Gale\"", \"Cyclone\"", \"Tornado\"", \"Hurricane\"", \"Typhoon\"", \"Whirlwind\",
# Clouds
"\"Cloudy\"", \"Overcast\"", \"Partly\"", \"cloudy\"", \"skies\"", \"Cumulus\"", \"Cirrus\"", \"Stratus\"", \"Nimbus\"", \"Foggy\"", \"Misty\",
# Atmospheric Pressure
\"pressure\"", \"Barometric\"", \"Atmospheric\"", \"gradient\",
# Humidity
\"Humid\"", \"Dry\"", \"Moist\"", \"Humidity\"", \"Relative\"", \"Dew\"", \"Muggy\",
# Seasons
\"Spring\"", \"Summer\"", \"Autumn\"", \"Fall\"", \"Winter\"", \"Monsoon\"", \"Dry\"", \"Wet\"", \"Harvest\",
# Conditions
\"Sunny\"", \"Fair\"", \"Pleasant\"", \"Stormy\"", \"Changeable\"", \"Variable\"", \"Unsettled\"", \"Extreme\",
# Events
\"Heatwave\"", \"Cold\"", \"snap\"", \"Frontal\"", \"Severe\"", \"Natural\"", \"disaster\"", \"warning\"", \"forecast\"", \"Climate\",
# Other
\"UV\"", \"index\"", \"Sunrise\"", \"Sunset\"", \"Moon\"", \"phase\"", \"Visibility\"", \"quality\"", \"satellite\"", \"radar\"
```

summer wind  
cold dry hot  
winter relative

fair warm quality

Temperatura 0

summer  
dry cold winter  
**hot**  
spring fair quality  
cool

summer  
pleasant

Opady 5mm

france  
netherlands  
london  
paris  
uk  
china

india  
germany  
canada

japan

Temperatura 0-26

germany  
taiwan  
france  
france  
japan  
india  
china  
dubai  
united states  
canada

germany  
canada  
us  
united states  
india  
new york  
france  
uk  
toronto  
london

Temperatura 0

kuwait canada.  
spain united states  
**dubai**  
california india qatar  
india germany

# Podsumowując

Yahor Lahunovich

# Nieuudane próby

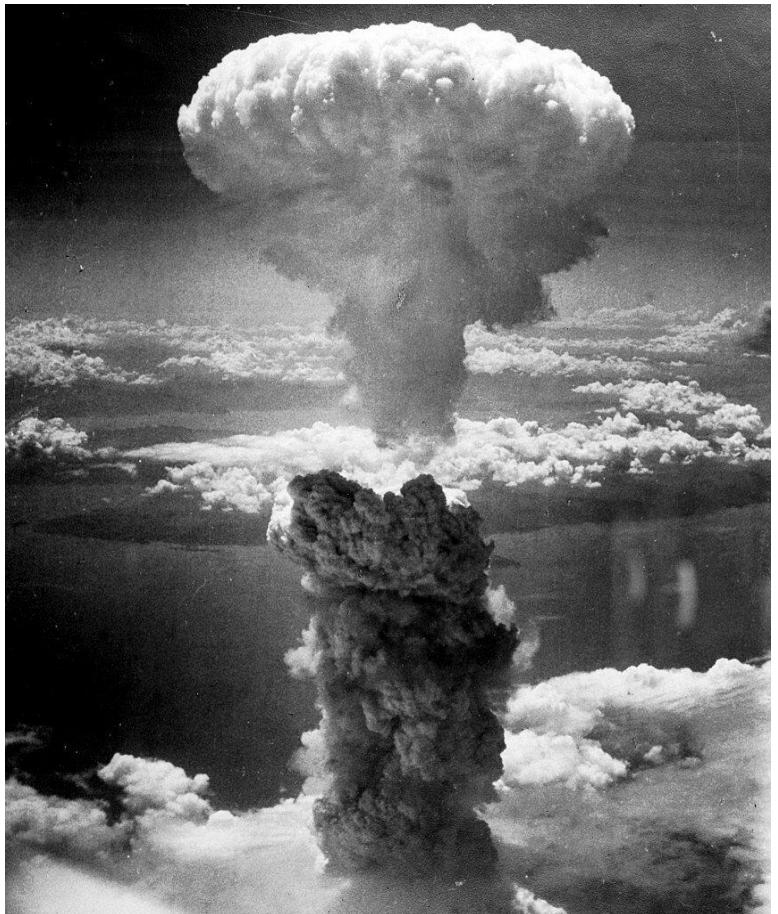


Figure 2.1: Country Rankings by Life Evaluations in 2021-2023



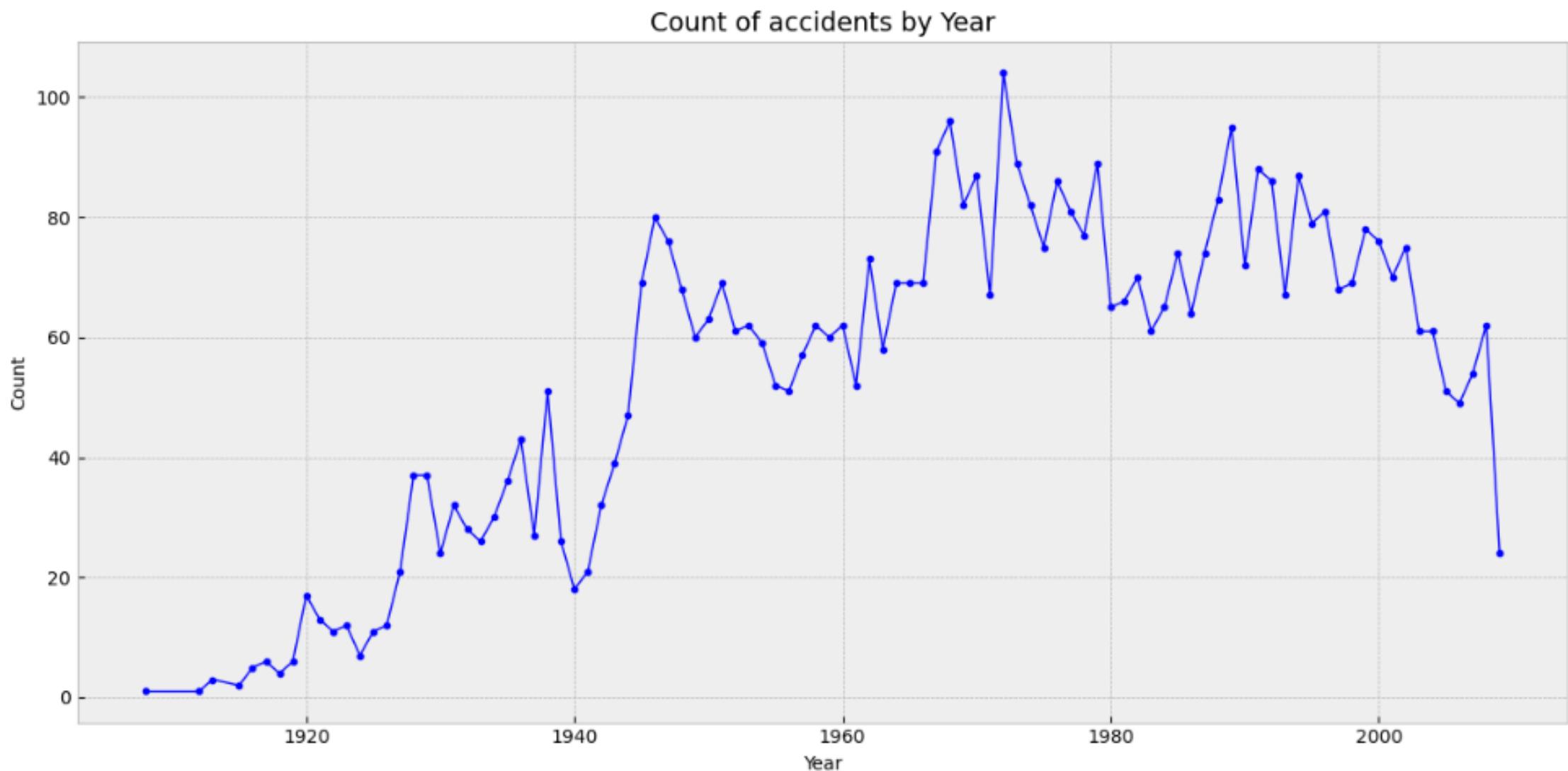


# Biblioteki:

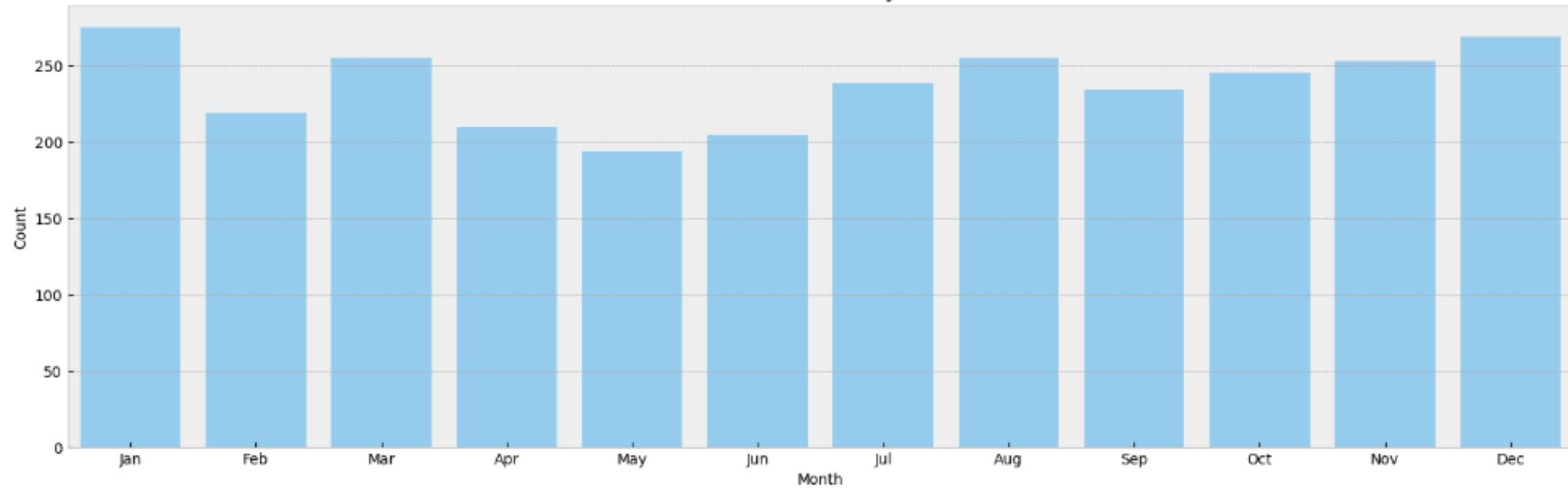
- Numpy
- Pandas
- Matplotlib
- Seaborn
- Wordcloud
- Cartopy
- Plotly

# Pytania:

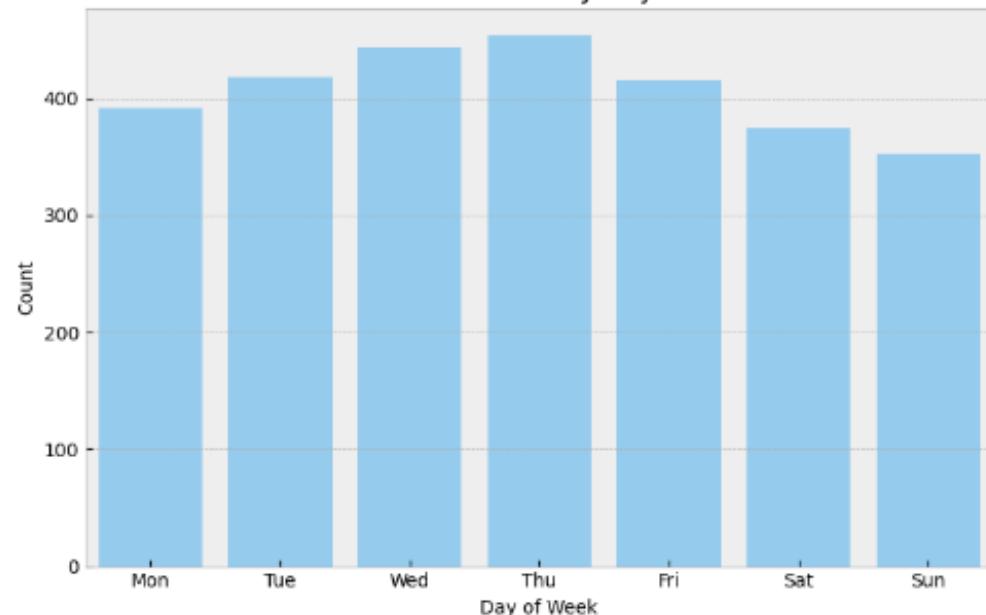
- Kiedy było najwięcej katastrof lotniczych?
- Kiedy zdarza się najwięcej wypadków lotniczych?
- Gdzie było najwięcej katastrof lotniczych?
- Jakie warunki pogodowe mogą mieć poważny wpływ na katastrofy lotnicze?



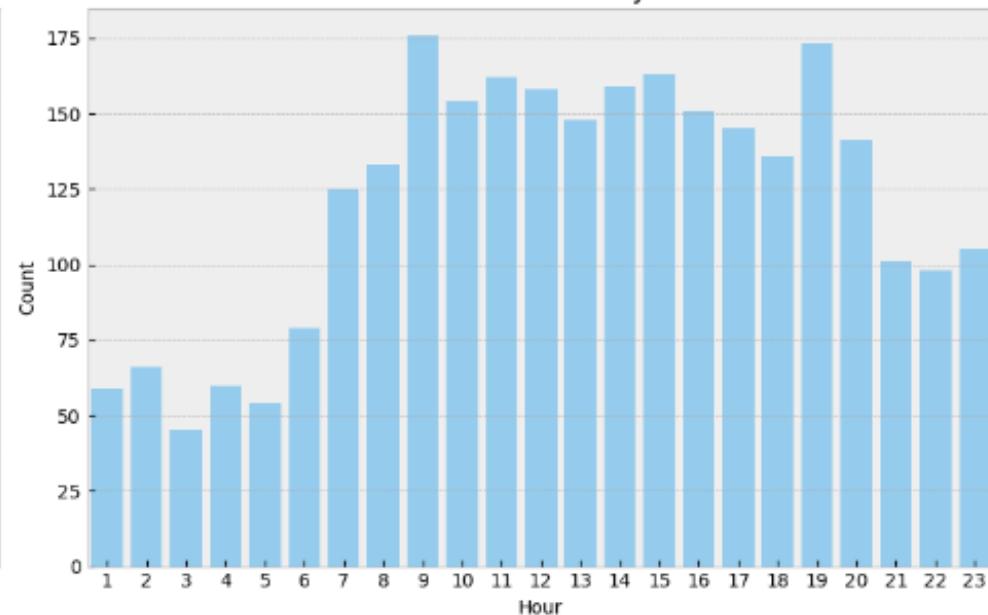
Count of accidents by Month



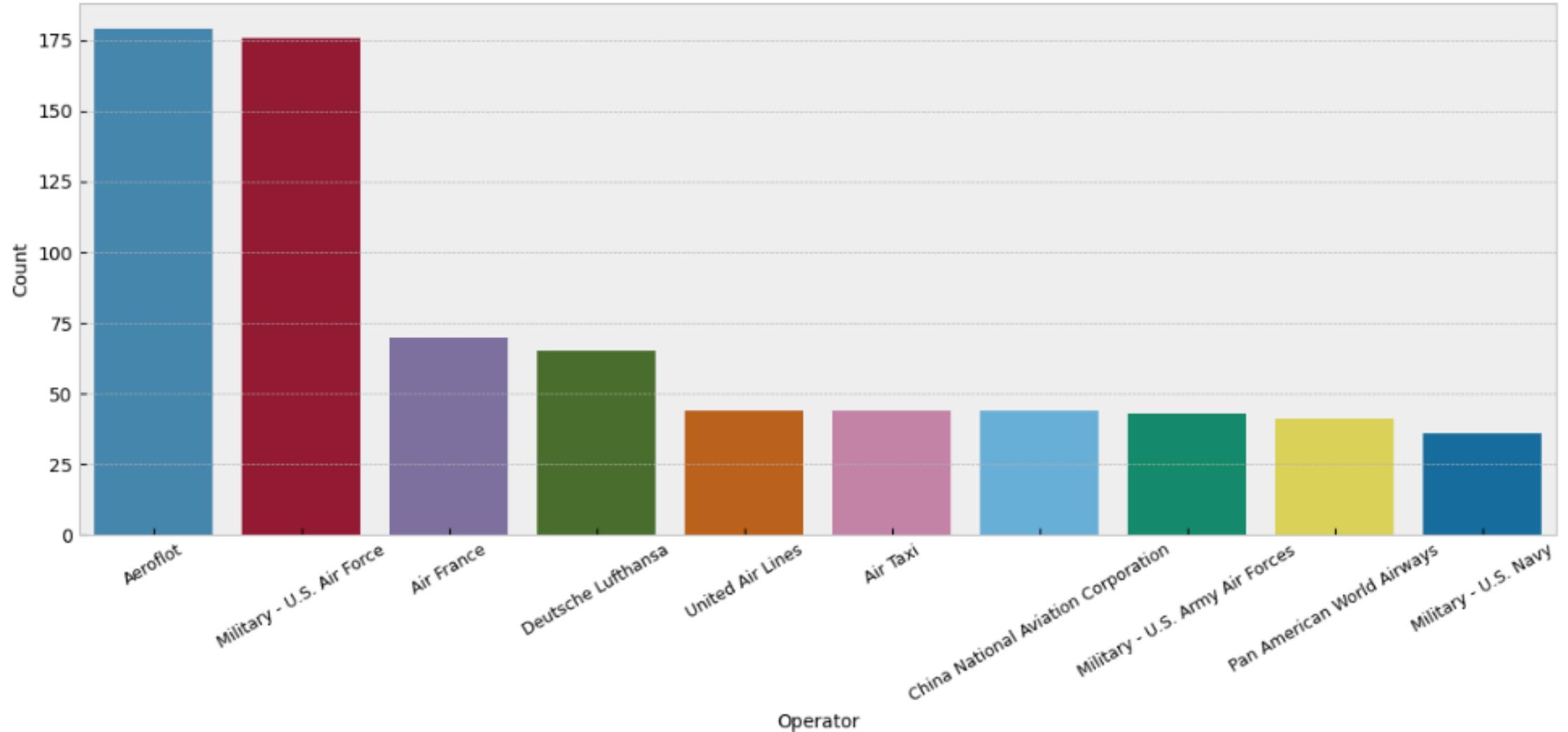
Count of accidents by Day of Week



Count of accidents by Hour



Top 10 Operators with the most plane crashes

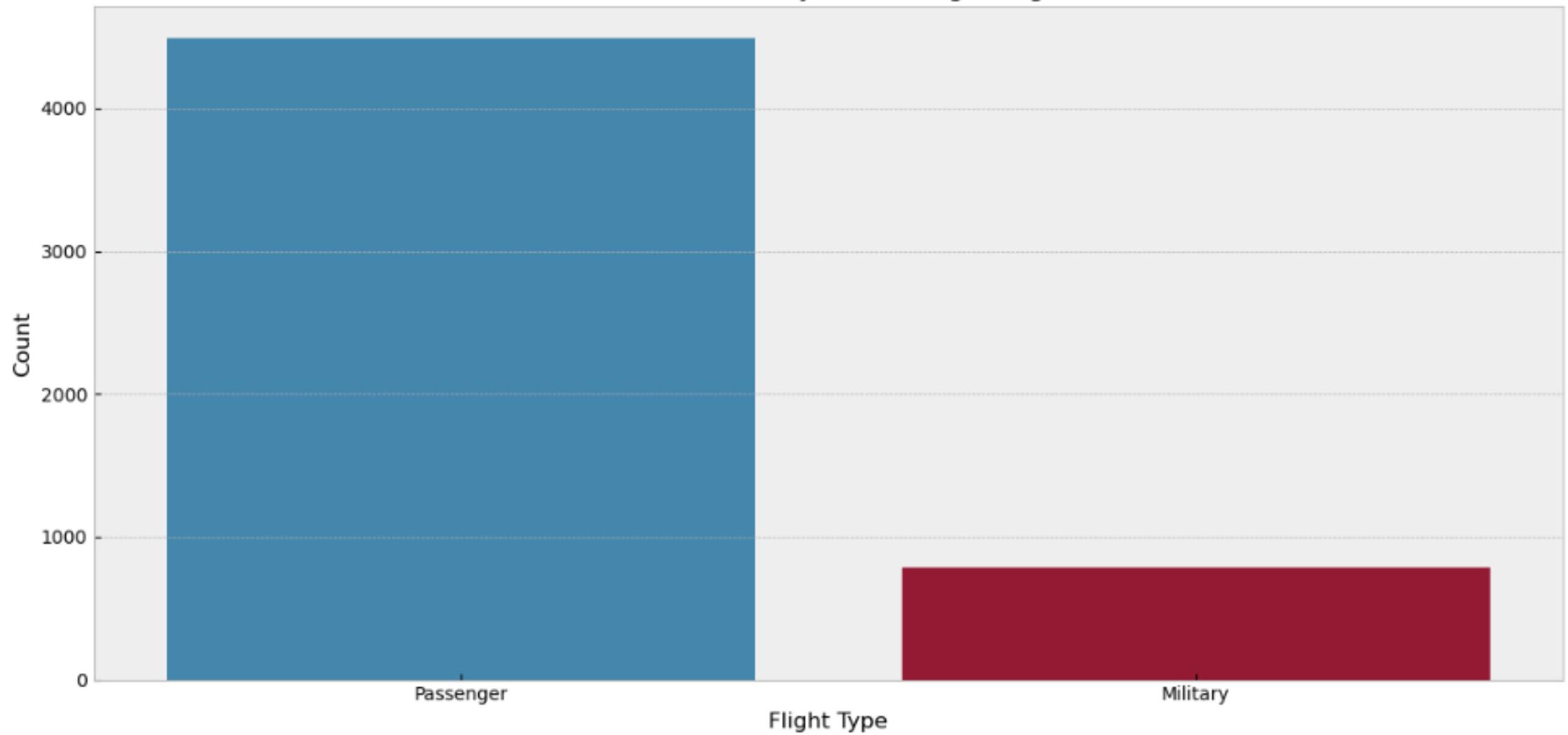


```
In [76]: operators[operators["Operator"] == "LOT Polish Airlines"]
```

Out[76]:

	Operator	count
49	LOT Polish Airlines	12

Number of Military vs Passenger Flights



## Brief Summary



# Czyścimy Dane

- Usuwam wszystkie dane dotyczące katastrof lotniczych w których nie było podanej dokładnej godziny i miejsca
- Biorę dane dopiero od 1940 roku
- Nie chcę zestrzelonych samolotów

# Uzyskanie współrzędnych dla każdej lokalizacji

## Online geocoding tool

Lookup addresses Online and for FREE

1. Upload an Excel, CSV, or text file that contains addresses to be geocoded or copy&paste addresses to a text area
2. Map columns to the address components (house number, street, city, and etc.)
3. Geocode addresses with [Geoapify Geocoder](#)
4. Download CSV file with results



Only the first 500 rows will be processed. Please split larger datasets if necessary.



**Upload a file**

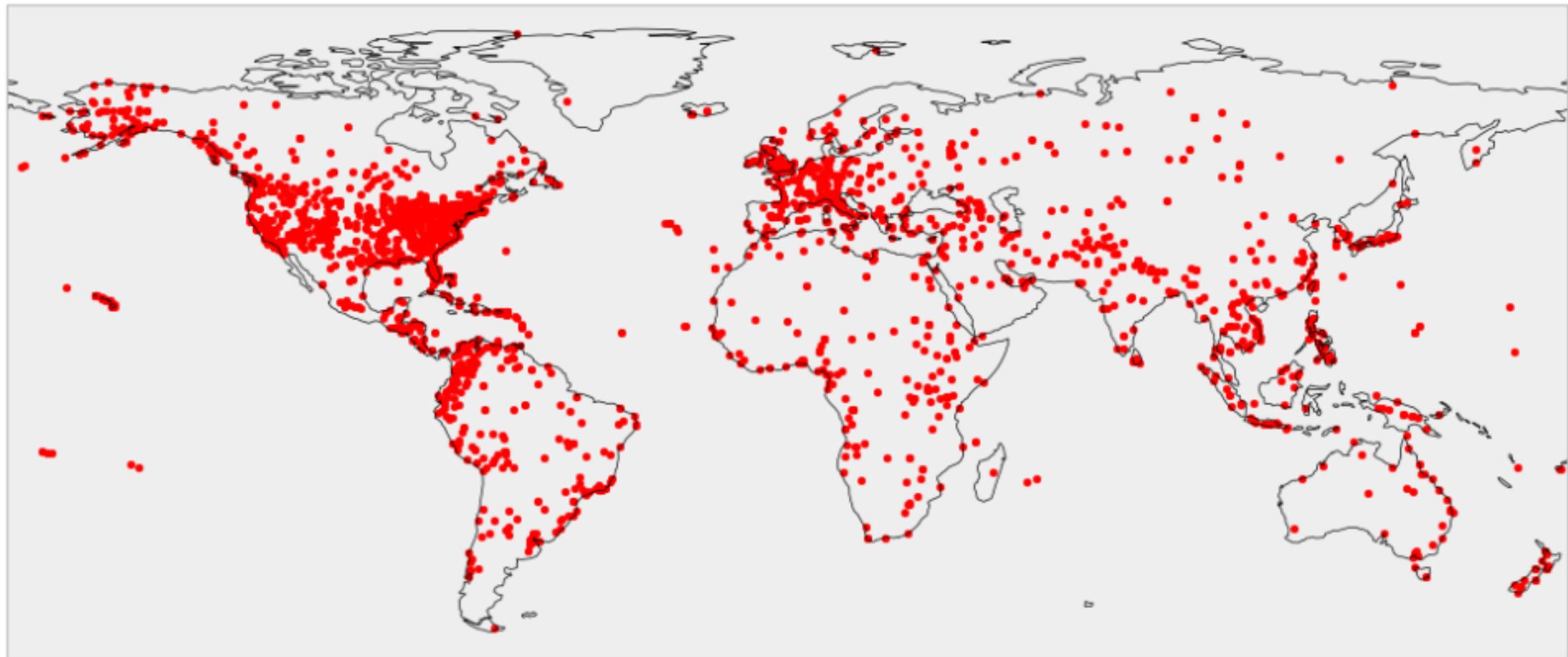
Select an Excel, CSV file, or text from your computer



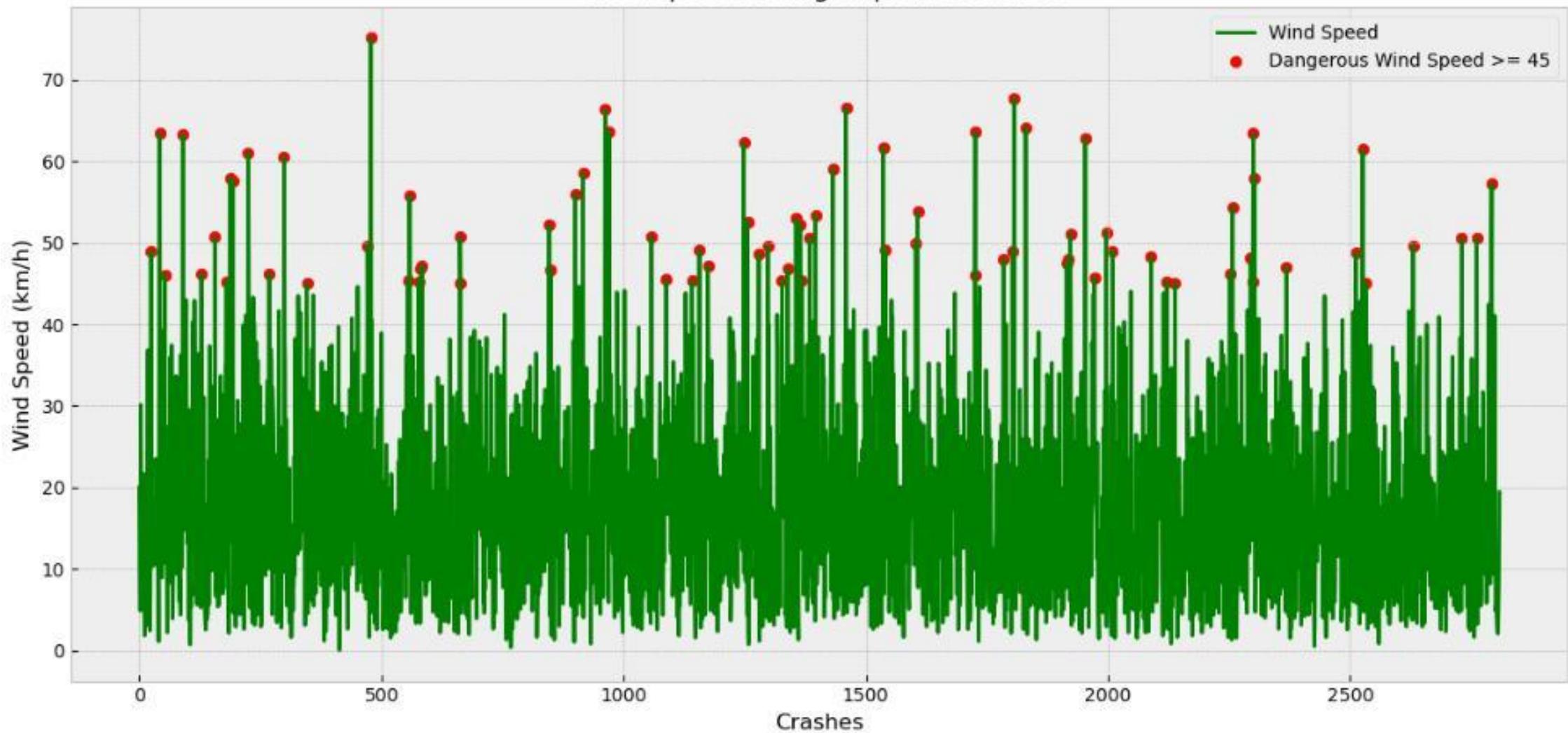
**Copy & Paste**

Copy and paste addresses from a list or table

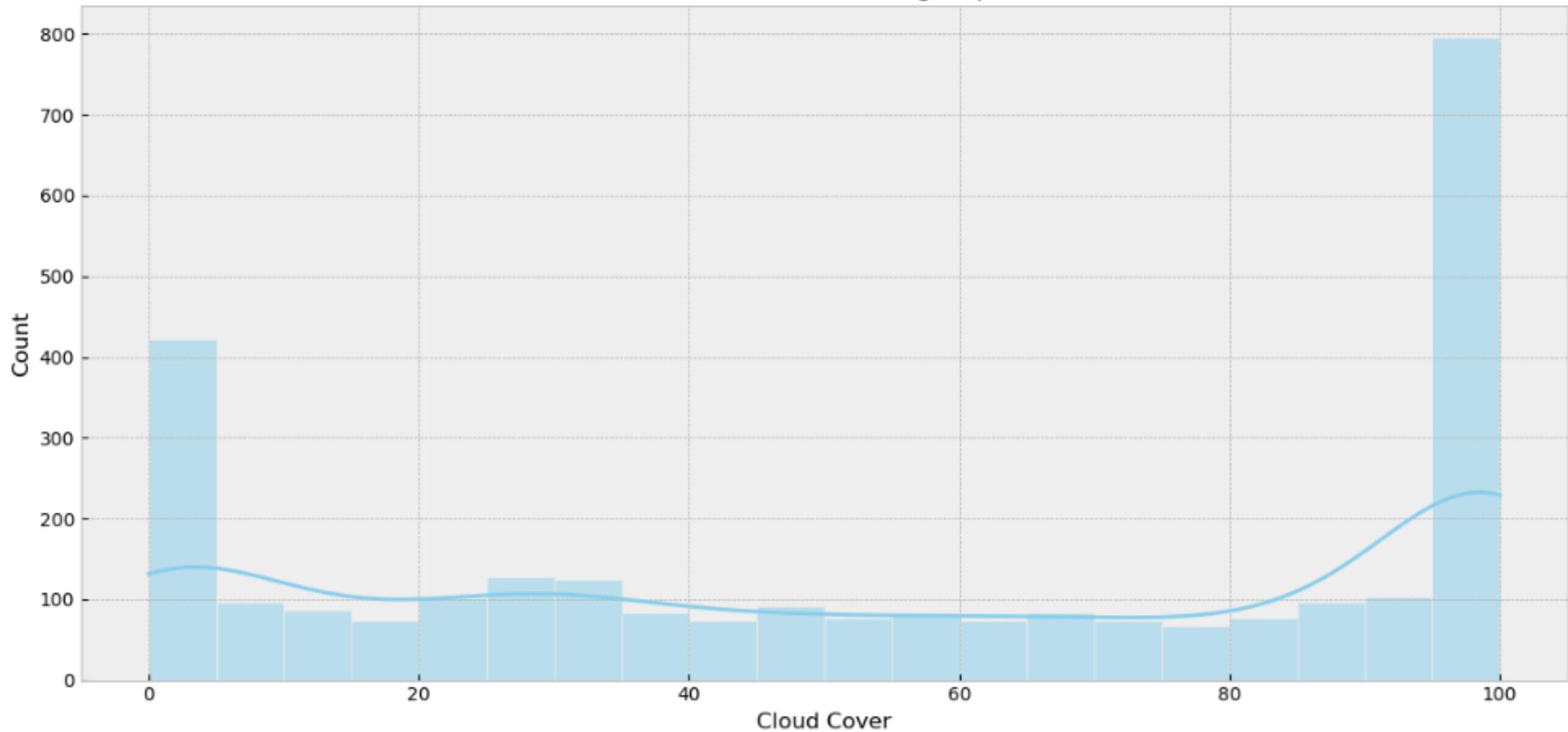
Map of plane crashes



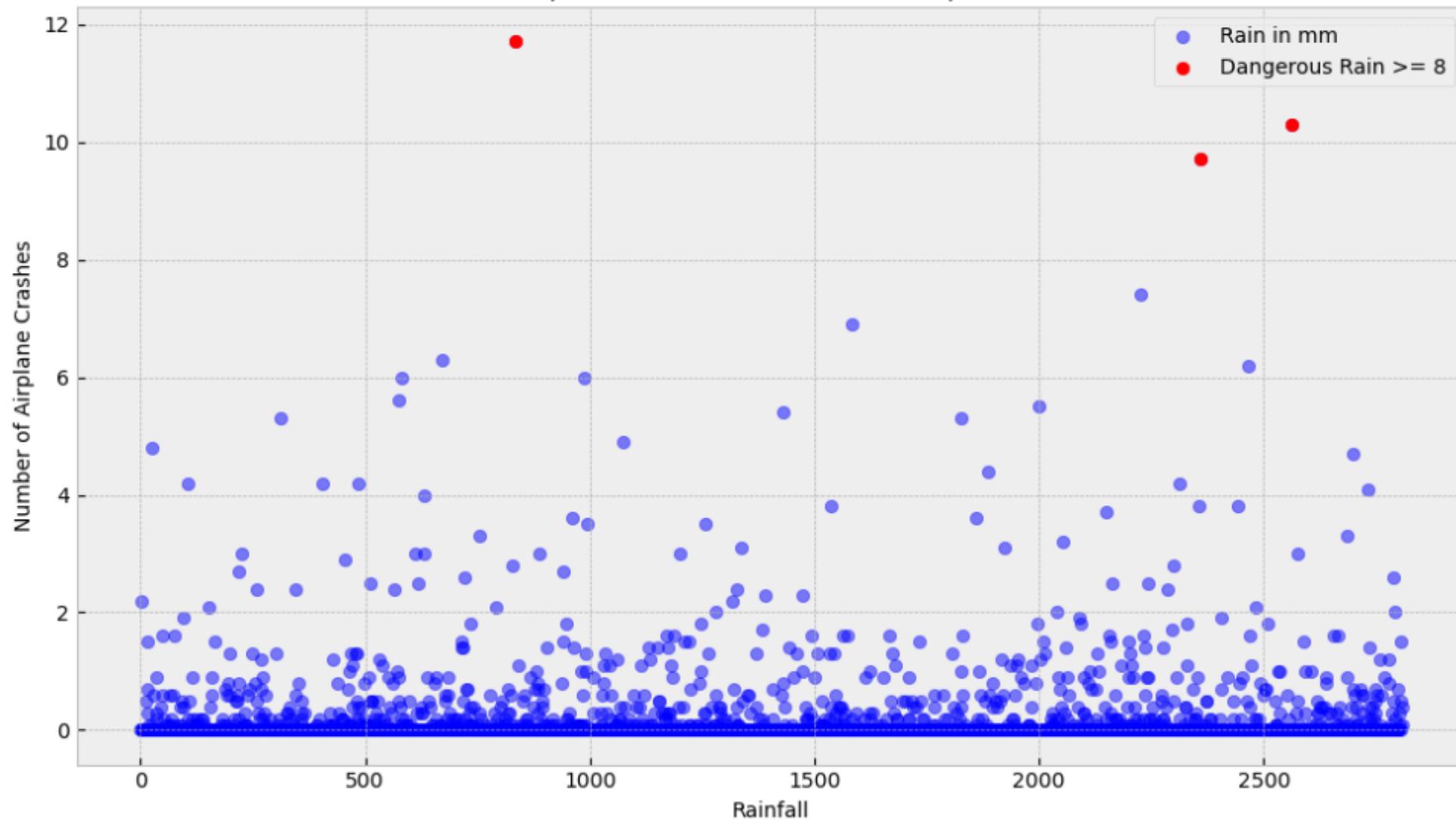
## Wind speed during airplane crashes



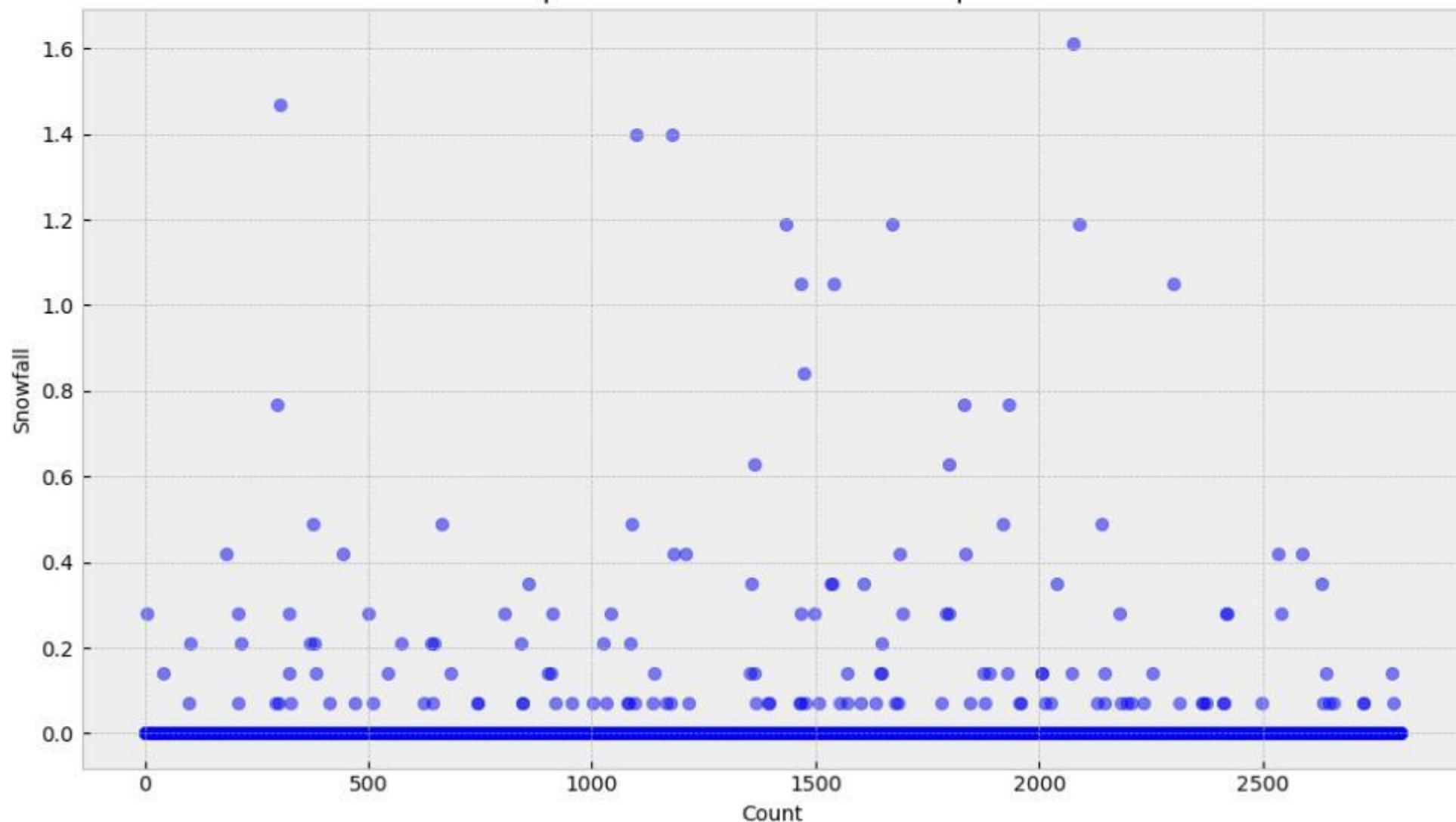
Distribution of cloud cover during airplane crashes



## Relationship Between Rainfall and Airplane Crashes



## Relationship Between Snowfall and Airplane Crashes



# Podsumowując

# Wypadki samochodowe Londyn 2023

Oleksii Vinichenko



# Wykorzystane biblioteki:

- Pandas
- Numpy
- Matplotlib
- Shapely.geometry
- Pyproj
- Geopandas
- Contextily

Dane wypadów wzięte z  
<https://tfl.gov.uk/>

# Zapoznamy się najpierw z danymi!



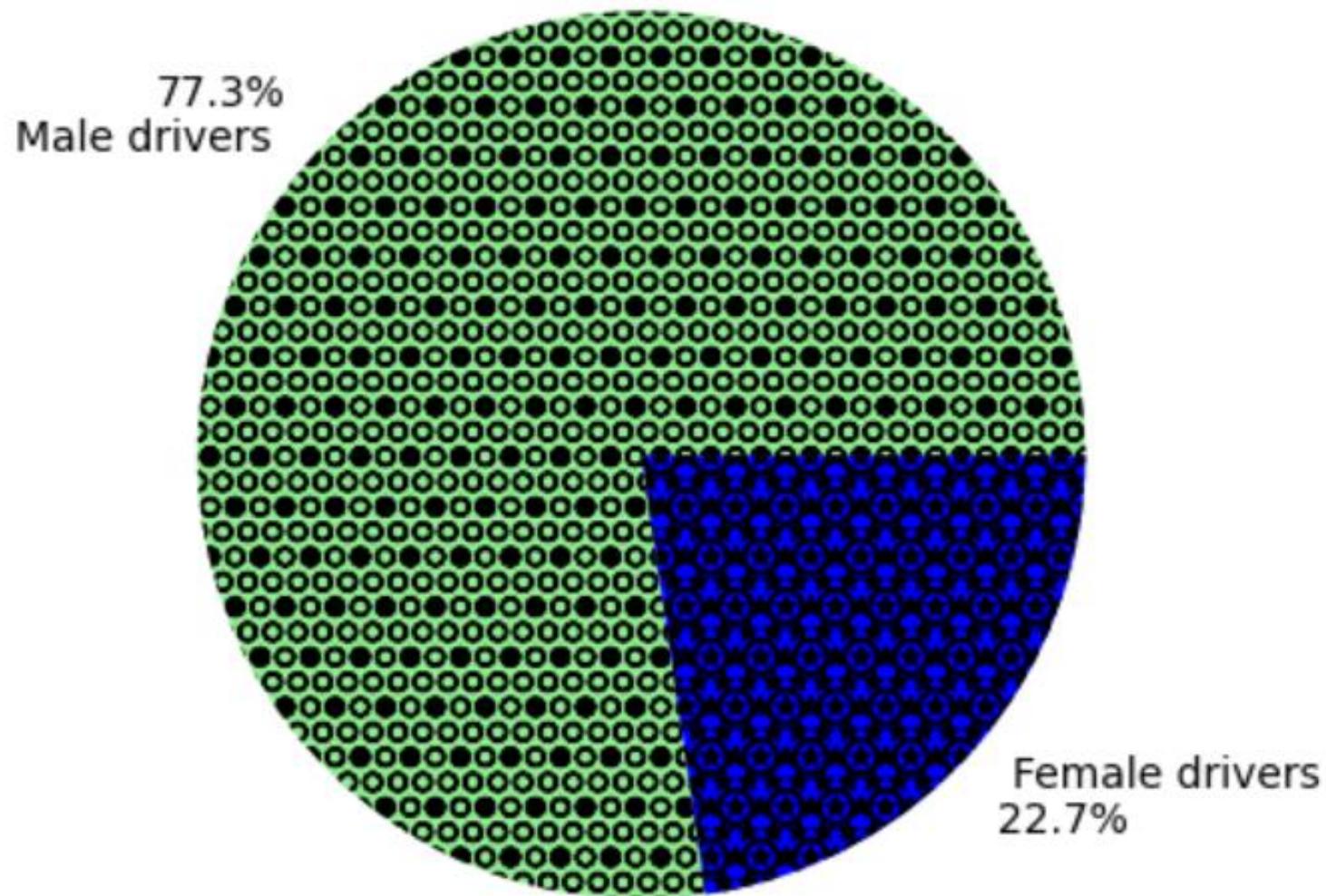
```
[3]: accidents.columns
```

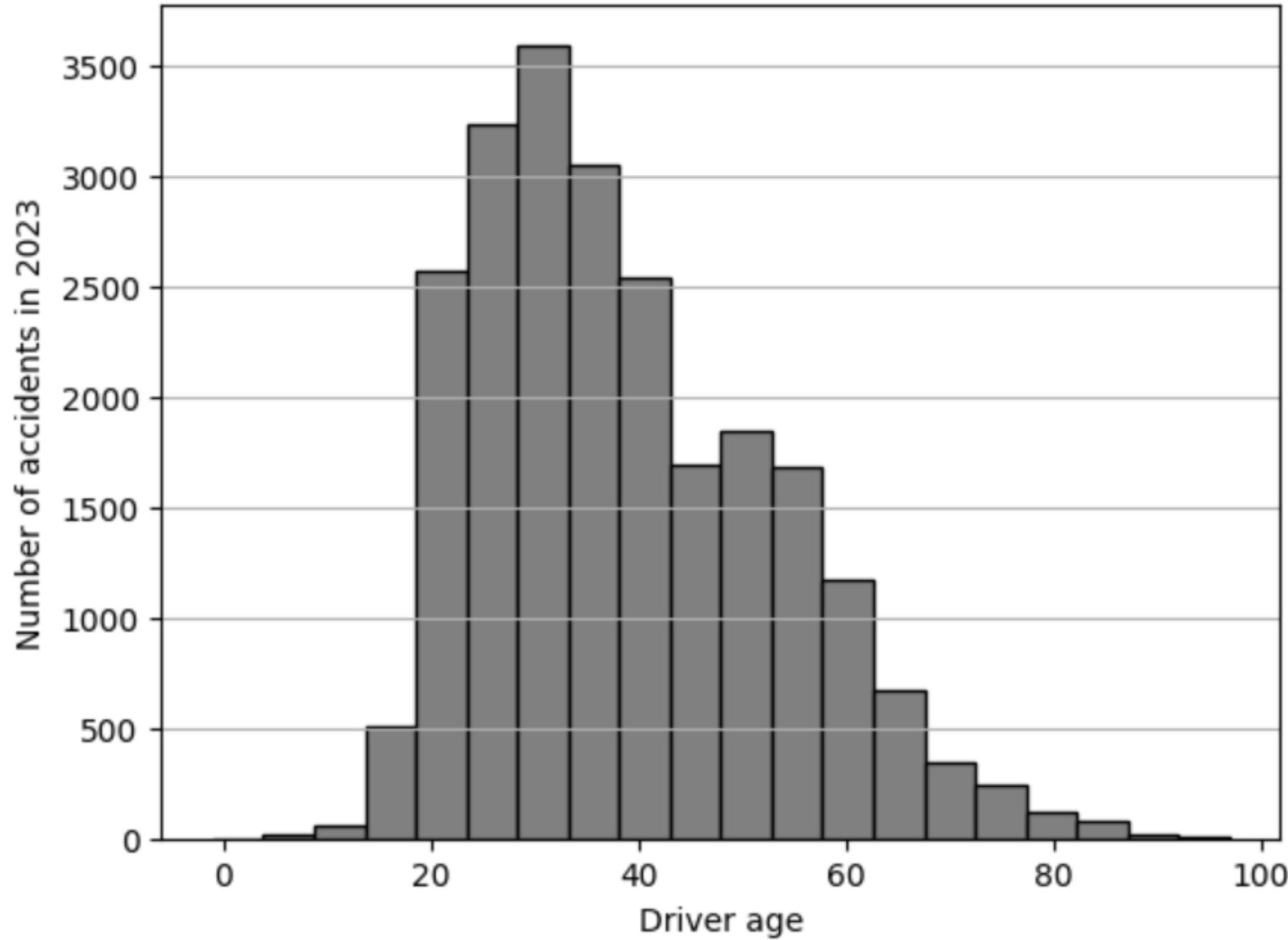
```
[3]: Index(['_Collision Id', '_Collision Date', 'Borough Name', 'Borough Number',
       'Easting', 'Northing', '_Vehicle Id', 'Vehicle Type Banded',
       'Vehicle Type', 'Vehicle Manoeuvres',
       'Vehicle Skidding and Overturning', 'Vehicle Restricted Lane',
       'Location of Vehicle at First Impact',
       'Vehicle Hit Object in Carriageway', 'Vehicle Leaving Carriageway',
       'Vehicle Hit Object Off Carriageway', 'First Point of Impact',
       'Journey Purpose', 'Driver Gender', 'Driver Age',
       'Driver age (Banded)'],
      dtype='object')
```

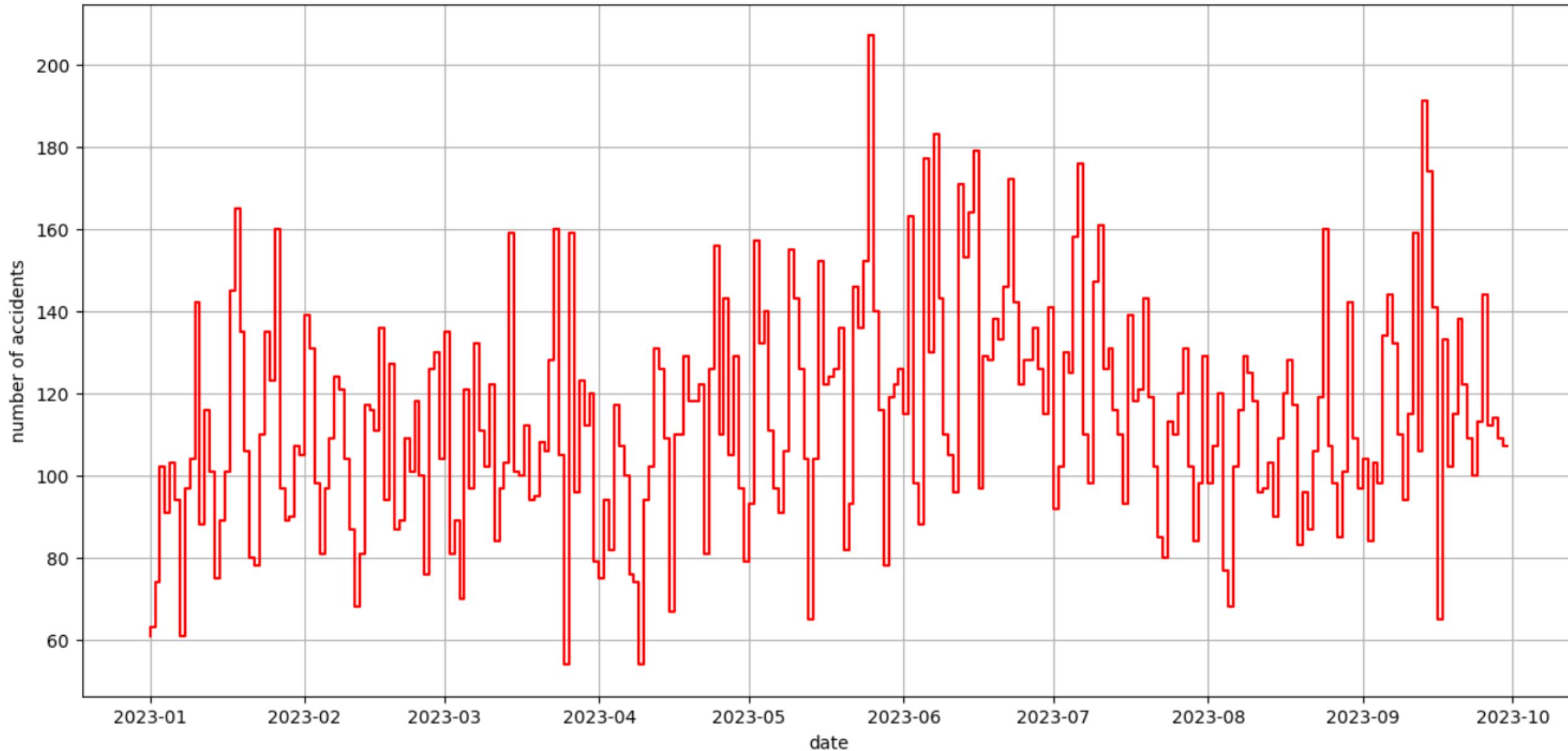
```
[9]: accidents.loc[:, "_Collision Id"].size
```

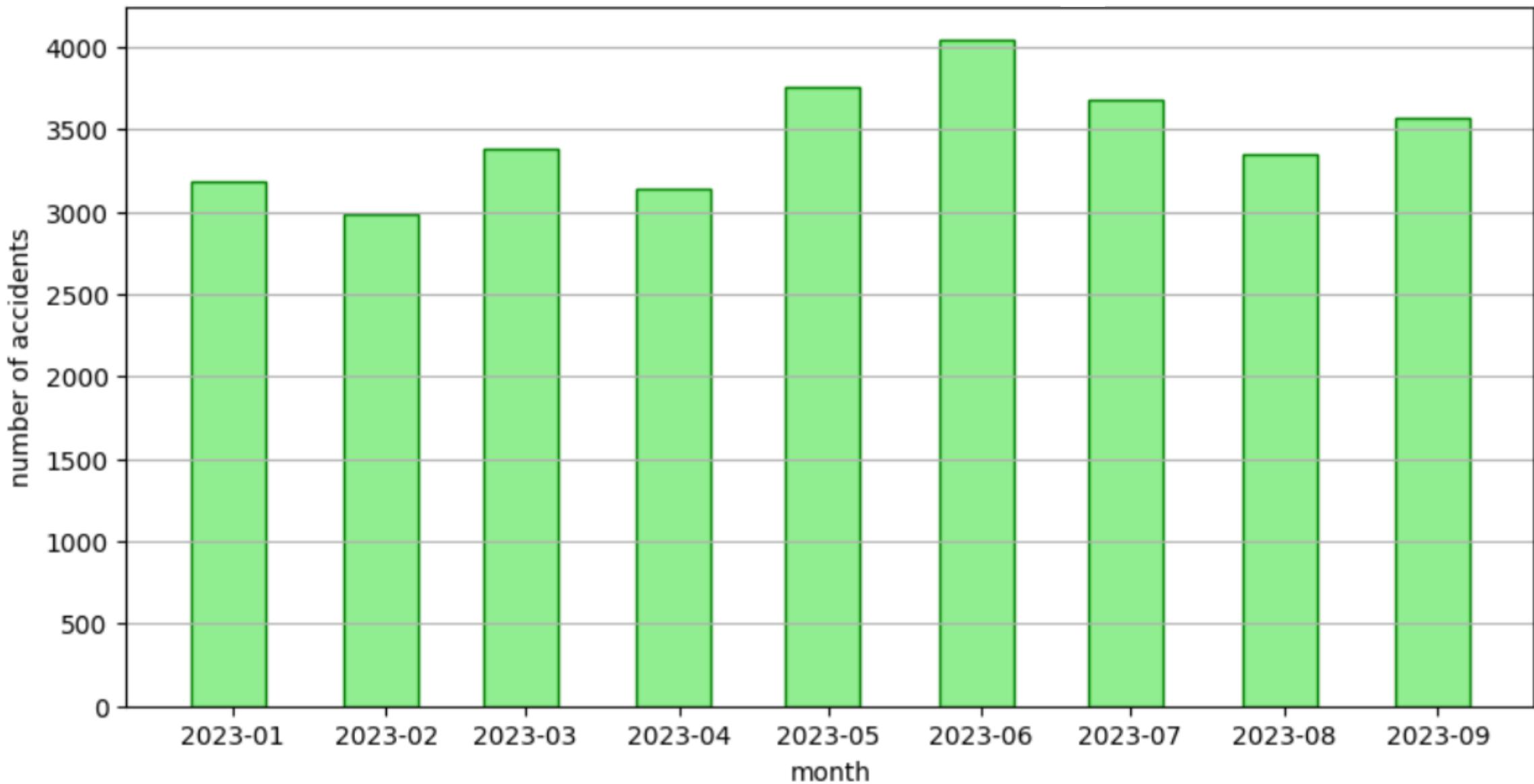
```
[9]: 31072
```

### Number of male and female drivers

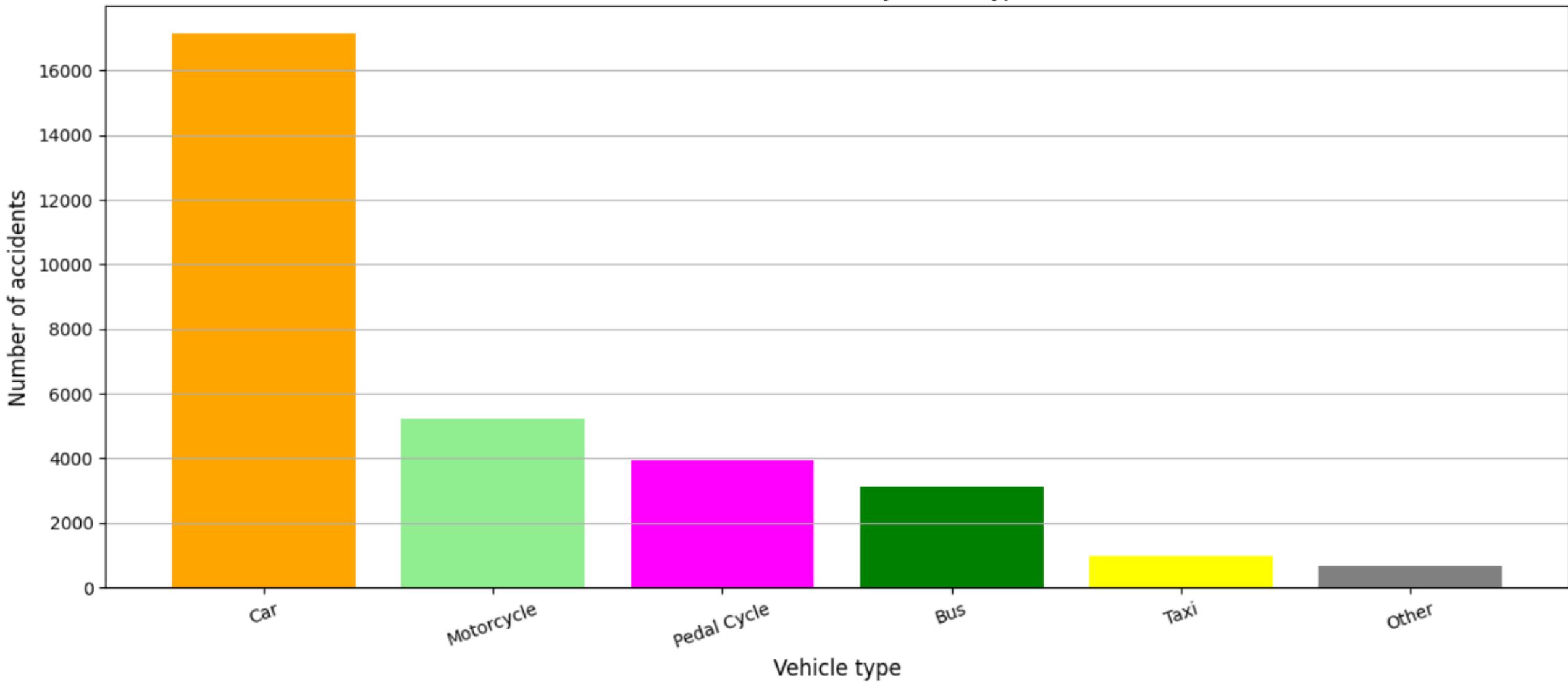




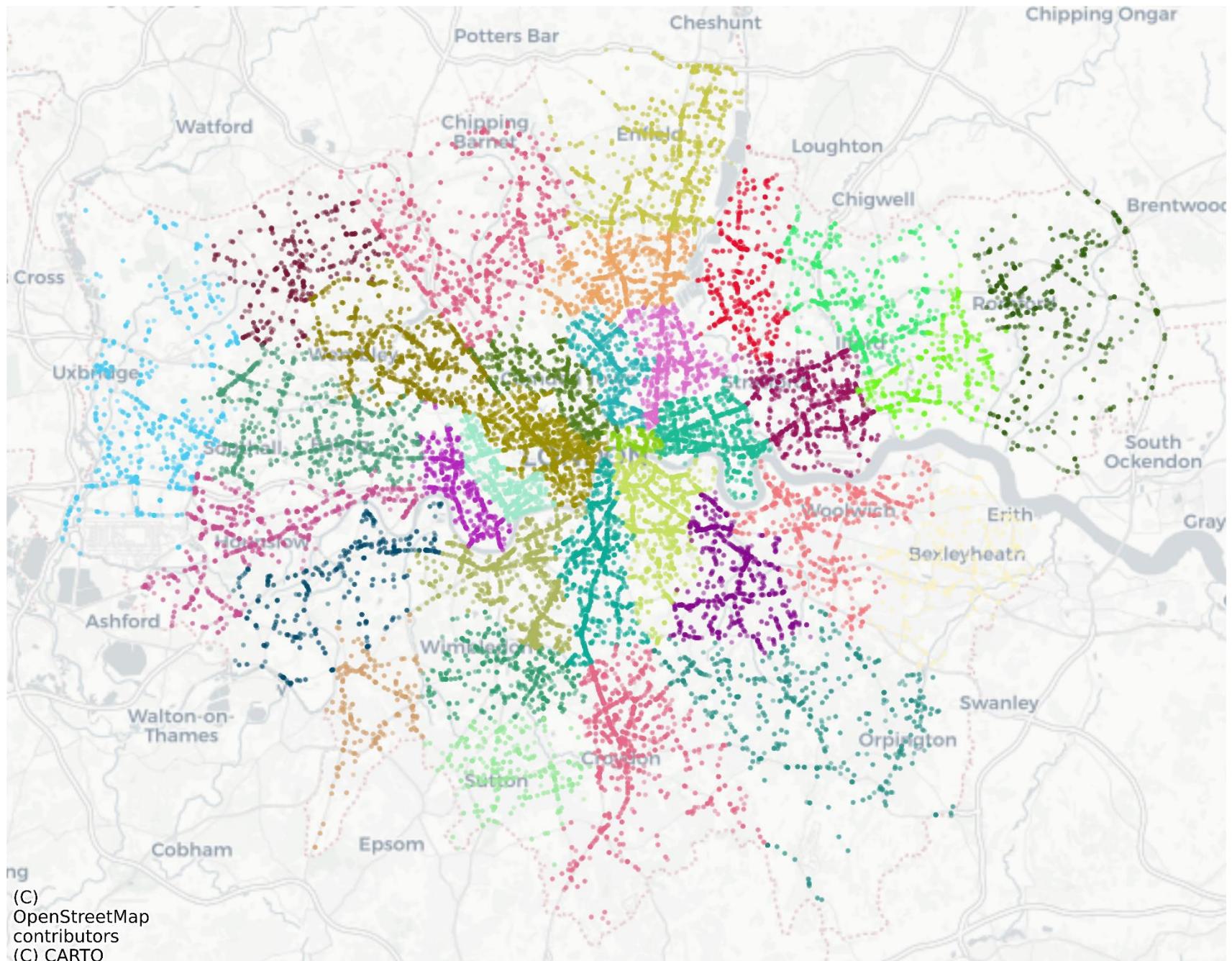




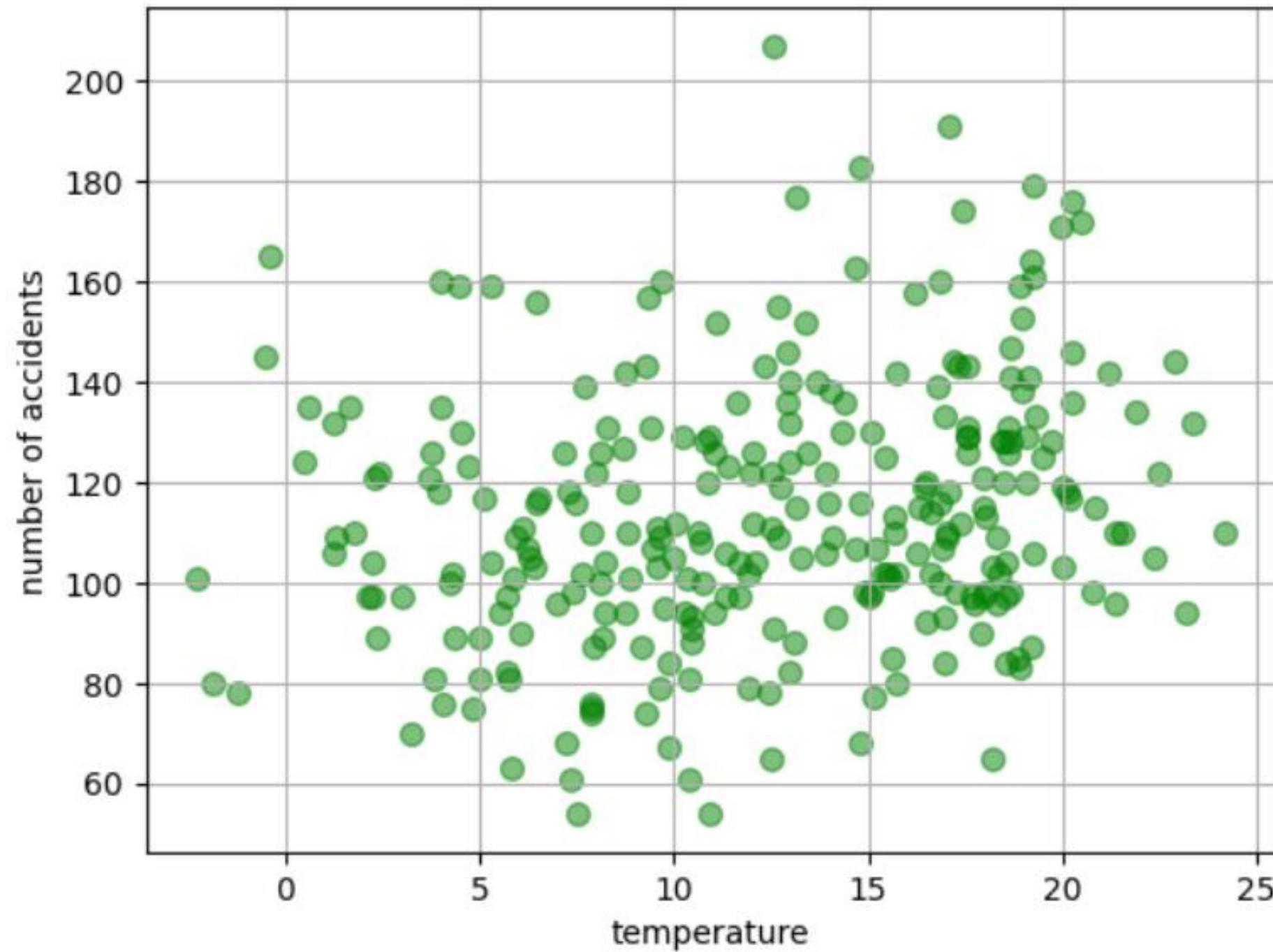
Number of accidents by vehicle type

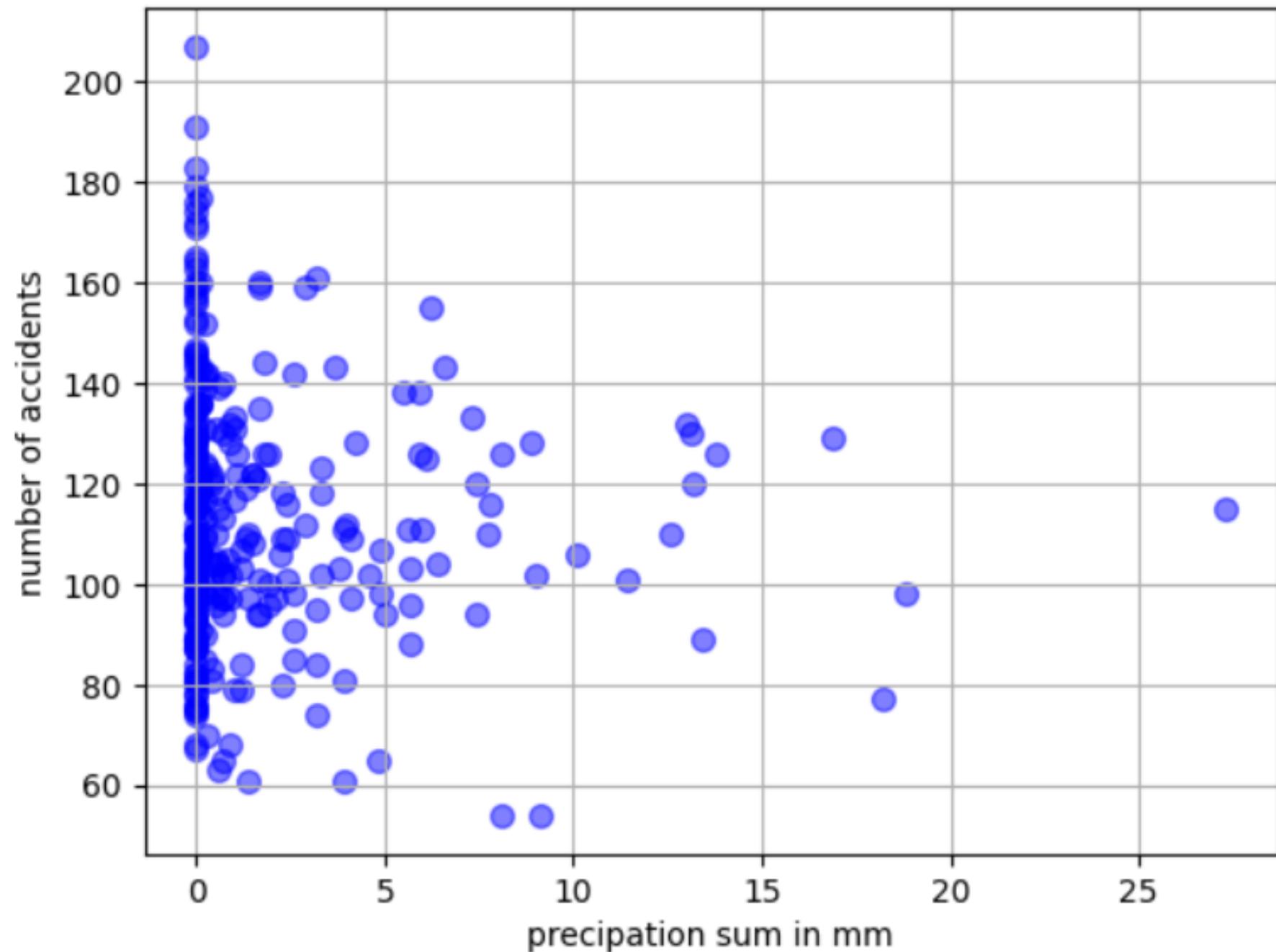


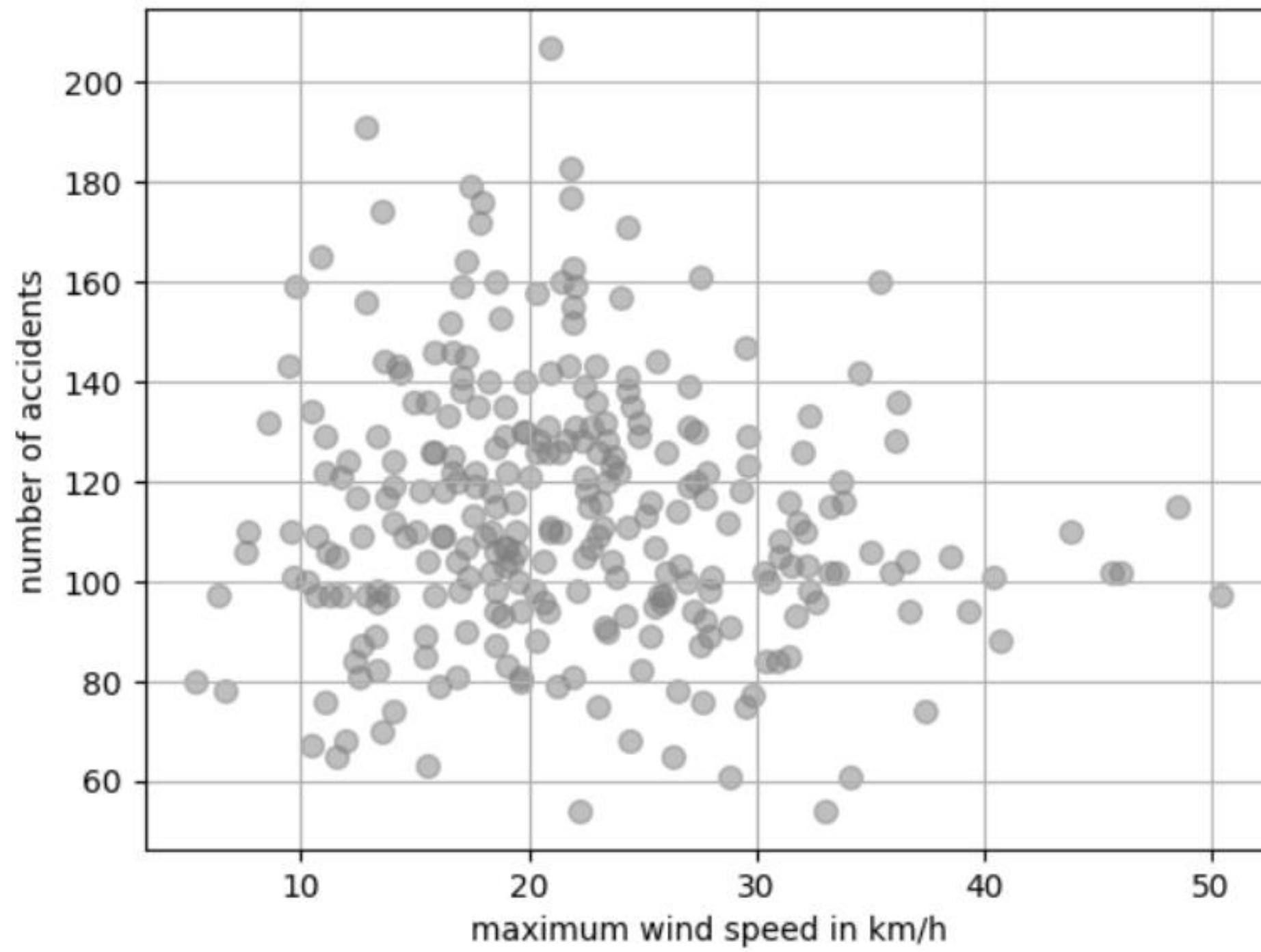
# Map of road accidents in London 2023

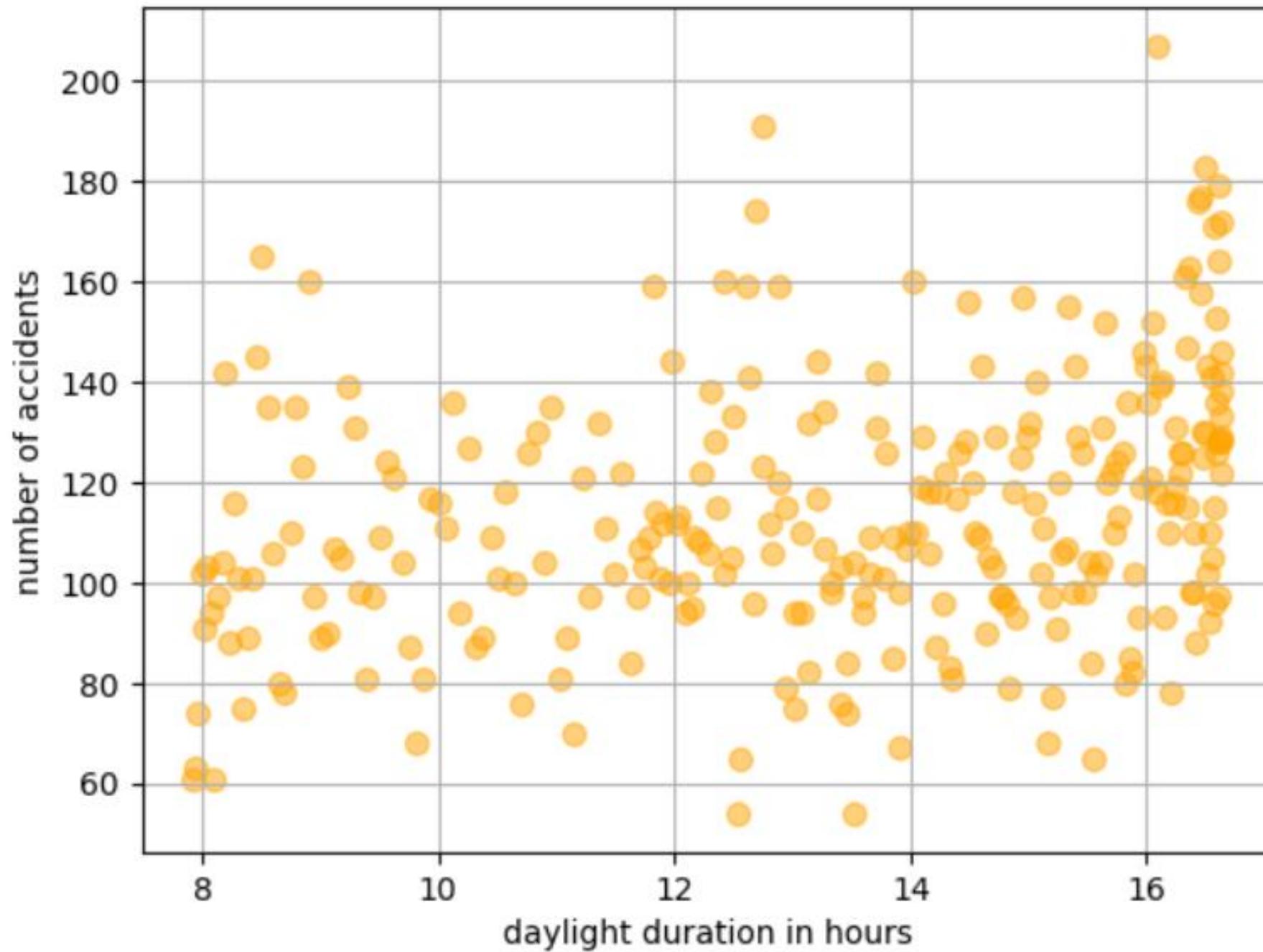


A teraz korelacje z pogodą  
(albo ich brak)



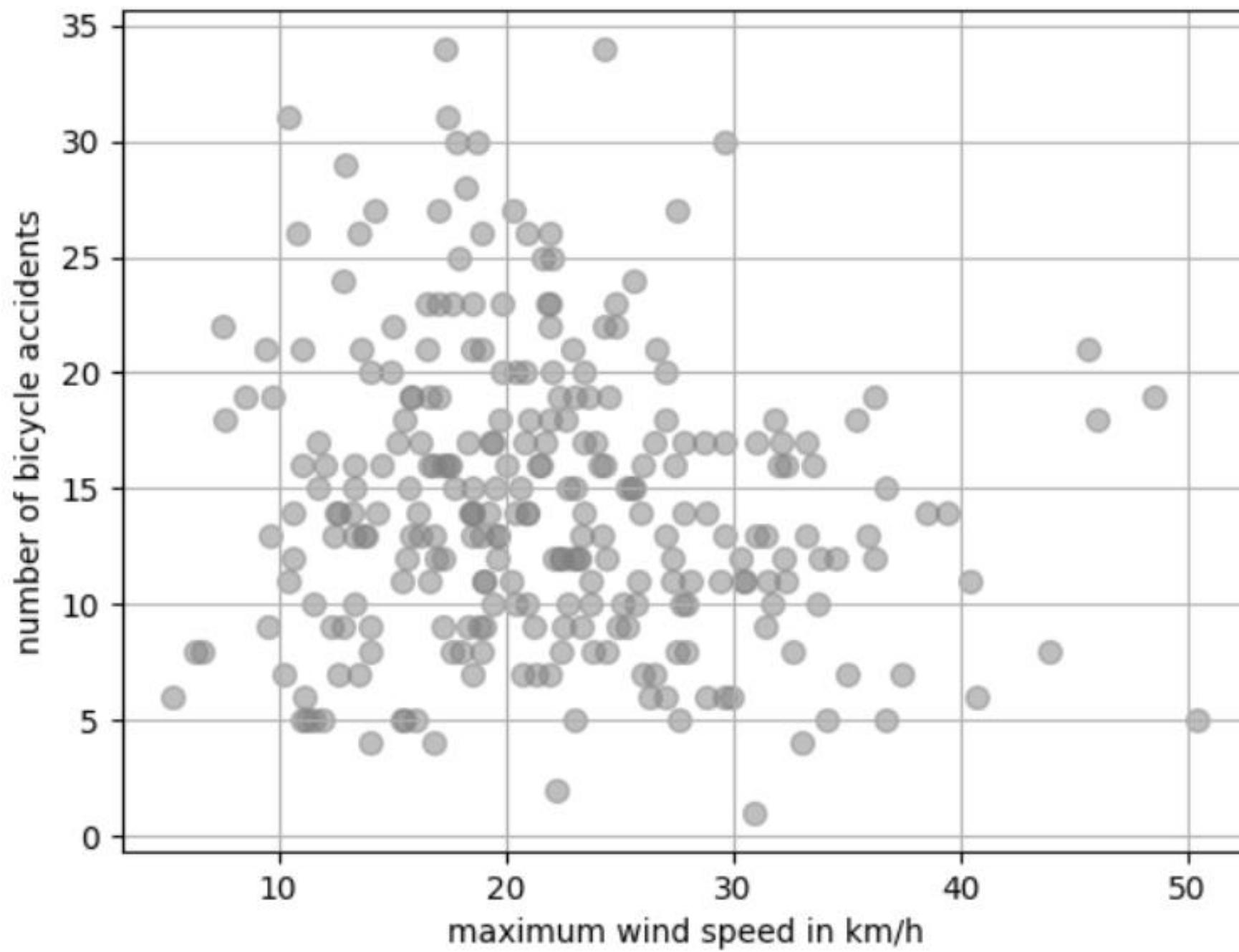


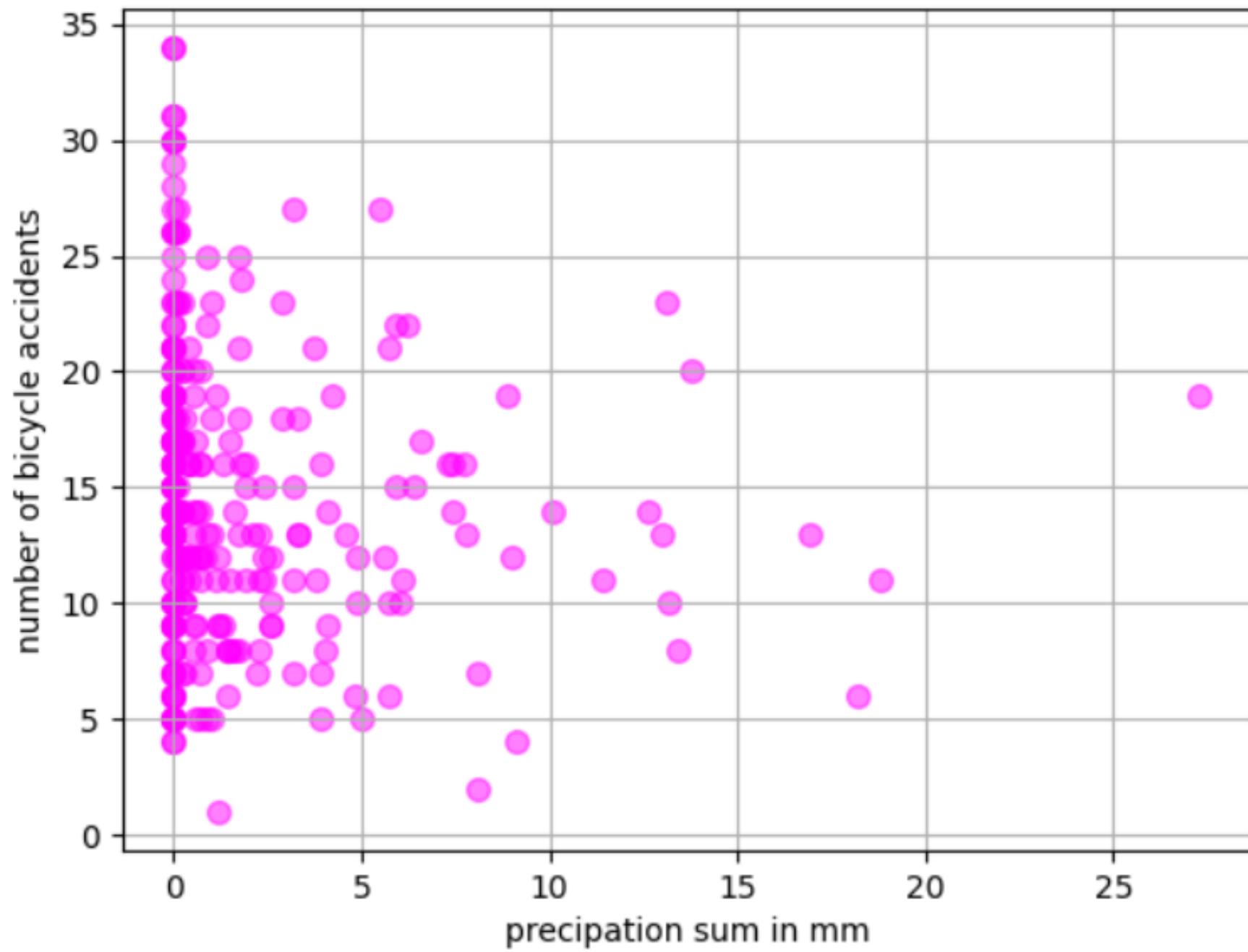




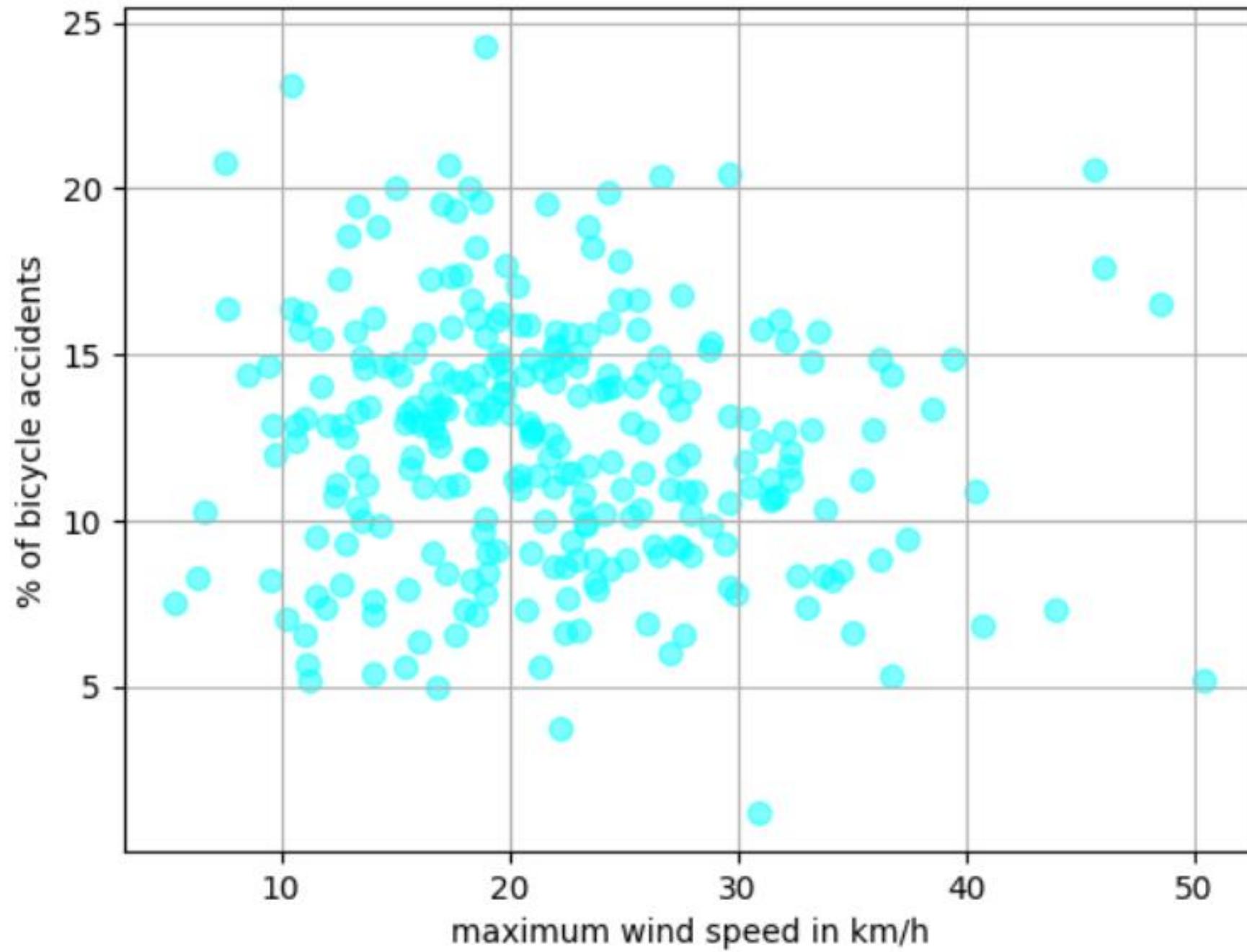
Niema korelacji?

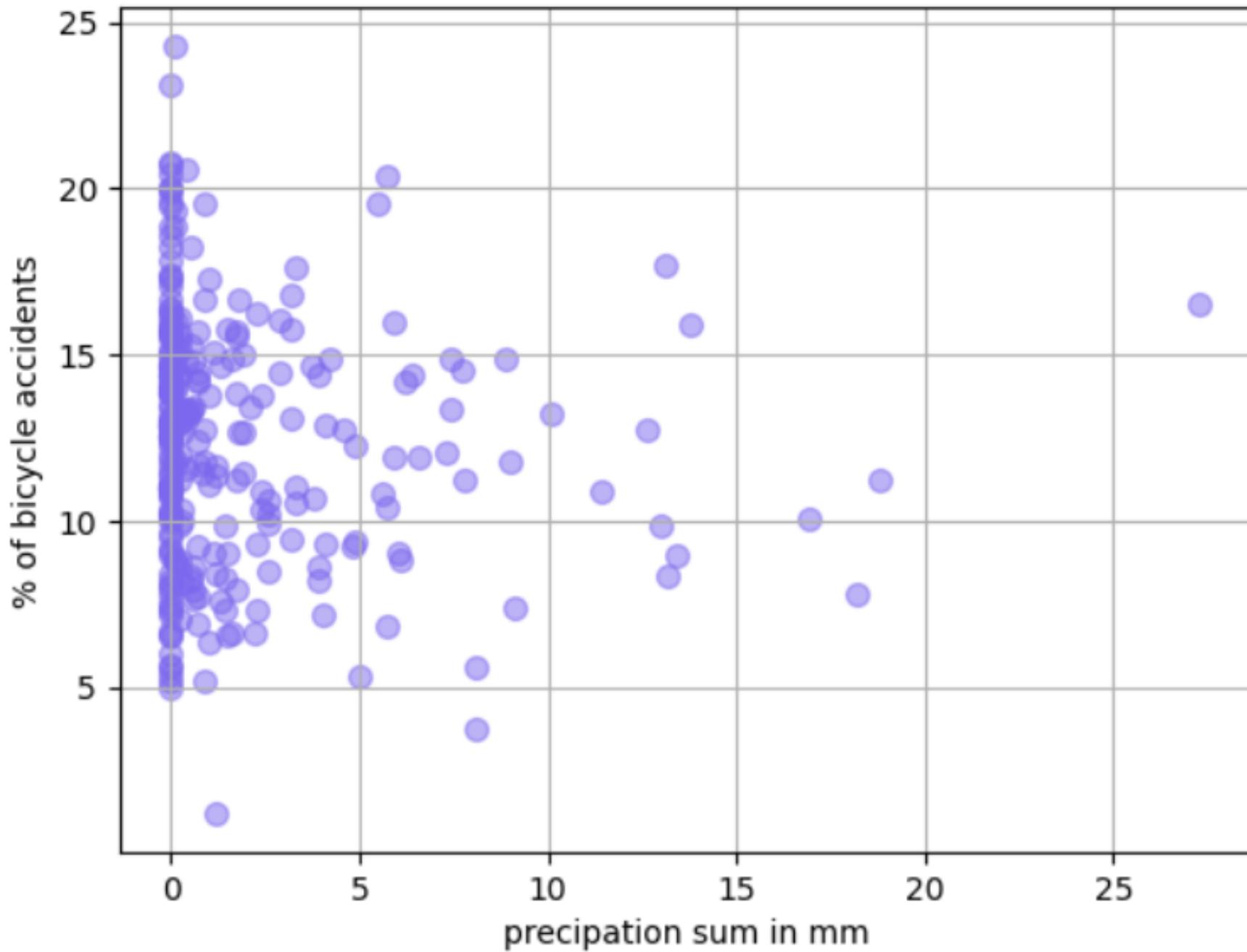
Zbadamy najbardziej wrażliwy typ transportu!





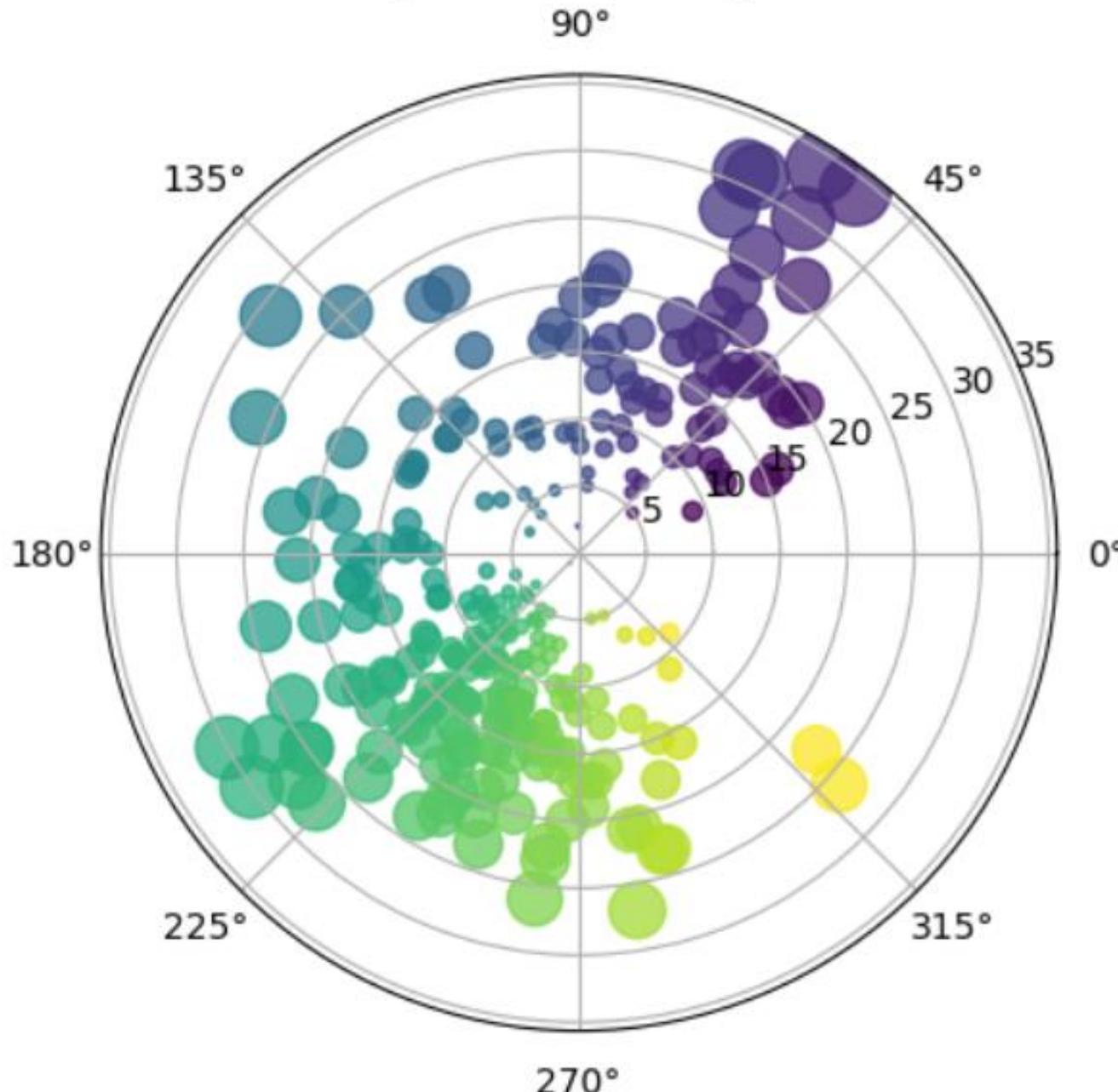
Może przynajmniej frakcja  
zależy od pogody?





Za dużo wykresów we  
współrzędnych kartezjańskich 😞

# Number of bicycle accidents by wind direction



# Podsumowując



Dziękujemy