

Data Visualization Group Project Part 3 :

Analyzing New York City Film Permits

Group 8 Members :-

Kirti Tyagi
Neha Bhujbal
Abhisha Tarimane
Raghid Alhazmy
Joung Won

Insights on Dataset

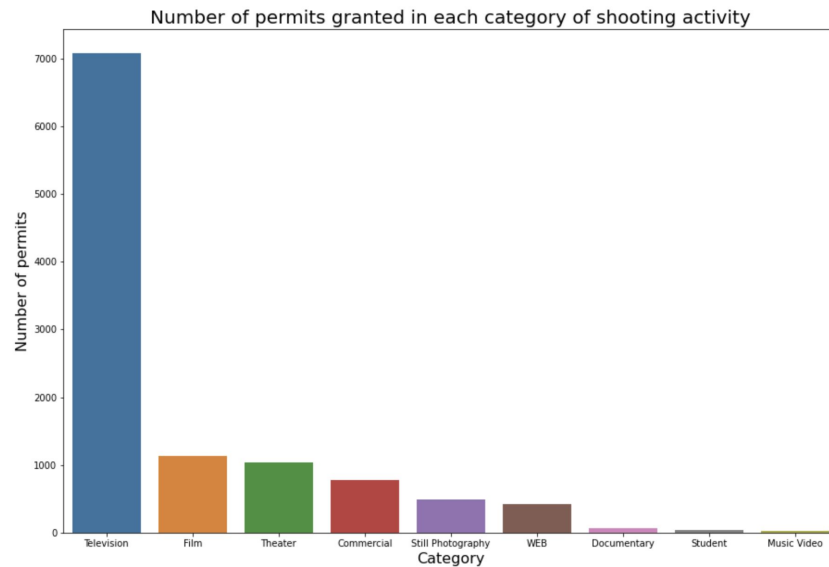
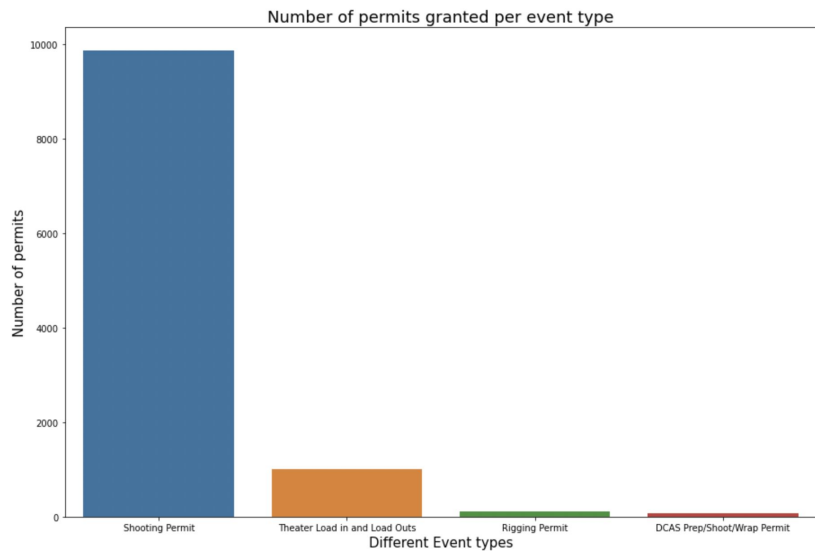
- Data Size: 11.1K Rows, 14 Columns
- Column Names:
 - EventID, EventType, **StartDateTime**, **EndDateTime**, EnteredOn, EventAgency, ParkingHeld, **Borough**, CommunityBoards, PolicePrecinct, **Category**, SubCategoryName, **Country**, and ZipCode
- Extraction Method:
 - Live data is collected from the NYC Open Data using the API Key through Socrata

Data Pre-processing

Initial checks completed which include:

- Missing or Null values
 - Result : None
- Data availability
 - Year 2021 - present day
- Data-type Conversion
- New column named Duration

Results on Initial Analysis



Results on Initial Analysis

```
In [50]: results_df['borough'].value_counts()
```

```
Out[50]: Manhattan      4538  
         Brooklyn      3972  
         Queens        2010  
         Bronx          458  
         Staten Island    96  
         Name: borough, dtype: int64
```

```
In [53]: results_df['country'].value_counts()
```

```
Out[53]: United States of America    11059  
         United Kingdom              11  
         Canada                     4  
         Name: country, dtype: int64
```

Challenges

- Latitude and Longitude is missing for Visualizing Maps
 - Resolution : Make use of Street address to fetch Lat & Long coordinates

What are we Looking to Answer?

- Popular Timing of the Day for Film Permits? Including Month & Week.
- Does seasons have an impact on no. of permits being granted?
- Lead Time between applying and permit being granted?
- Most Popular regions for Shooting?
- Which category requires maximum permit and How long are the permits?
- Is there a relationship between duration, time and film Category?

Interactivity To Be Added ->

Clicking on a borough
will show a more detailed
view of the location of the
permits. This will show
the specific zip codes in
the borough where the
filming permit was issued

