

Group 1: Data on Rye

Motivation for Topic

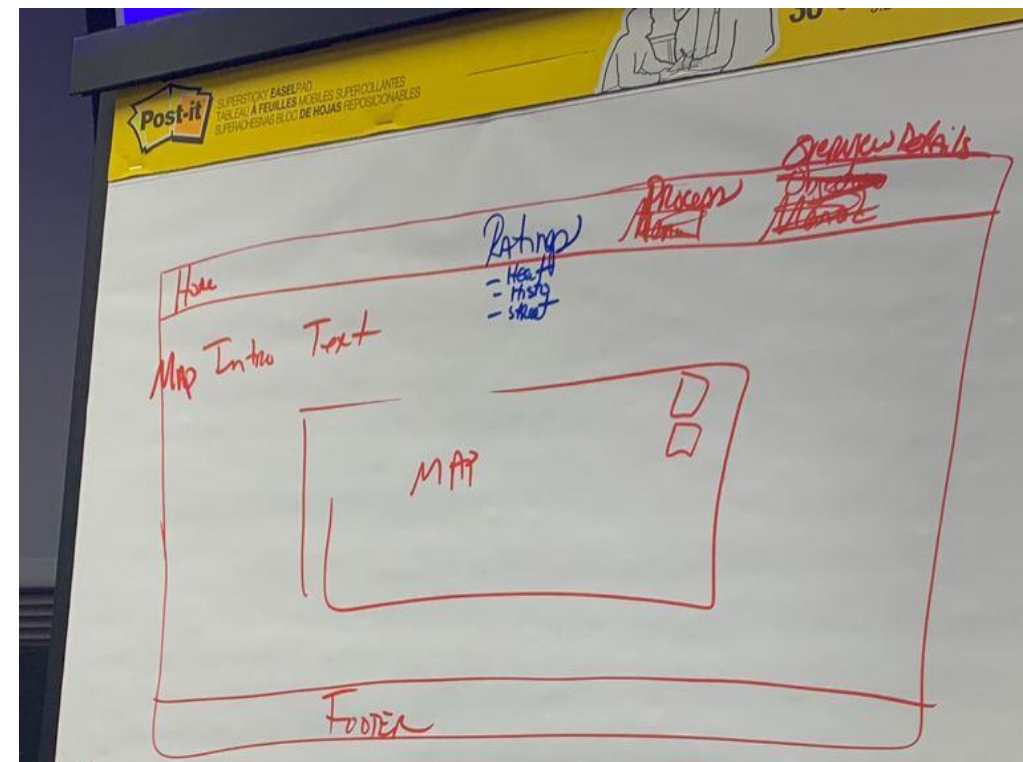
We love to travel, to eat when we travel, and to visit New York! This dataset is current, has many variables for visualization, and was interesting to the team.

The dataset

- is from NYC OpenData
- is provided by the New York City Department of Health and Mental Hygiene (DOHMH)
- contains information on New York City restaurant inspection results
- was captured using an API call

Final Design

Menu options which allow the user to select different visualizations. The selected visualization will appear in the center of the screen.



Link to GitHub Repository: <https://github.com/tisfarah/VizProj>

Screen Images of Metadata

From City Of New York

Locate Data

The screenshot shows the NYC OpenData website with the dataset "DOHMH New York City Restaurant Inspection Results" selected. The dataset description states: "The dataset contains every sustained or not yet adjudicated violation citation from every full or special inspection conducted up to three years prior to the most recent inspection for restaurants and food vendors." The table below lists the first few rows of the dataset.

| CAMIS | DBA | BORO | BUILDING | STREET | ZIPCODE | PHONE | CUISINE DESCRIPTION | IN |
|----------|---------------------|-------|----------|-----------------|---------|------------|---------------------|-----|
| 30075445 | MORRIS PARK BAKE... | BRONX | 1007 | MORRIS PARK AVE | 10462 | 7188924968 | Bakery | 06/ |
| 30075445 | MORRIS PARK BAKE... | BRONX | 1007 | MORRIS PARK AVE | 10462 | 7188924968 | Bakery | 06/ |
| 30075445 | MORRIS PARK BAKE... | BRONX | 1007 | MORRIS PARK AVE | 10462 | 7188924968 | Bakery | 06/ |
| 30075445 | MORRIS PARK BAKE... | BRONX | 1007 | MORRIS PARK AVE | 10462 | 7188924968 | Bakery | 05/ |
| 30075445 | MORRIS PARK BAKE... | BRONX | 1007 | MORRIS PARK AVE | 10462 | 7188924968 | Bakery | 05/ |
| 30075445 | MORRIS PARK BAKE... | BRONX | 1007 | MORRIS PARK AVE | 10462 | 7188924968 | Bakery | 05/ |
| 30075445 | MORRIS PARK BAKE... | BRONX | 1007 | MORRIS PARK AVE | 10462 | 7188924968 | Bakery | 05/ |
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Download CSV

The screenshot shows the "Export" menu on the NYC OpenData website. The menu options are: SODA API, OData, Download, CSV, CSV for Excel, CSV for Excel (Europe), JSON, RDF, RSS, TSV for Excel, and XML. The "Download" option is currently selected.

Obtain via API Call

```
import pandas as pd
from sodapy import Socrata

# Unauthenticated client only works with public data sets. Note 'None'
# in place of application token, and no username or password:
client = Socrata('data.cityofnewyork.us', 'zw6W3ueAw2Ete3k3XtaW9Gt5')

# Example authenticated client (needed for non-public datasets):
# client = Socrata(data.cityofnewyork.us,
#                 MyAppToken,
#                 username='user@example.com',
#                 password='AFakePassword')

# First 2000 results, returned as JSON from API / converted to Python list of
# dictionaries by sodapy.
results = client.get('43nn-pn8j', limit=2000,)

# Convert to pandas DataFrame
results_df = pd.DataFrame.from_records(results)

client.close()
```

In [37]:

results_df.head()

Out[37]:

| | action | boro | building | camis | critical_flag | cuisine_description | dba | grade | grade_date | inspection_date | inspection_type | phone | record_date | score | street | violation_code | |
|---|------------------------------|-------|----------|----------|---------------|---------------------|-----------------------|-------|-------------------------|-------------------------|----------------------------------|---------------------------------------|-------------------------|-------------------------|-----------------|-----------------|-----|
| 0 | Violations were cited in the | BRONX | 1007 | 30075445 | Not Critical | Bakery | MORRIS PARK BAKE SHOP | A | 2019-06-11T00:00:00.000 | 2019-06-11T00:00:00.000 | Cycle Inspection / Re-inspection | 7188924968 | 2019-06-21T06:00:53.000 | 6 | MORRIS PARK AVE | 08C | |
| 1 | Violations were cited in the | BRONX | 1007 | 30075445 | Not Critical | Bakery | MORRIS PARK BAKE SHOP | A | 2019-06-11T00:00:00.000 | 2019-06-11T00:00:00.000 | Cycle Inspection / Re-inspection | 7188924968 | 2019-06-21T06:00:53.000 | 6 | MORRIS PARK AVE | 10B | |
| 2 | Violations were cited in the | BRONX | 1007 | 30075445 | Not Critical | Bakery | MORRIS PARK BAKE SHOP | A | 2019-06-11T00:00:00.000 | 2019-06-11T00:00:00.000 | Cycle Inspection / Re-inspection | 7188924968 | 2019-06-21T06:00:53.000 | 6 | MORRIS PARK AVE | 10F | |
| 3 | Violations were cited in the | BRONX | 1007 | 30075445 | Critical | Bakery | MORRIS PARK BAKE SHOP | NaN | NaN | 2019-05-16T00:00:00.000 | 2019-05-16T00:00:00.000 | Cycle Inspection / Initial Inspection | 7188924968 | 2019-06-21T06:00:53.000 | 14 | MORRIS PARK AVE | 04L |
| 4 | Violations were cited in the | BRONX | 1007 | 30075445 | Not Critical | Bakery | MORRIS PARK BAKE SHOP | NaN | NaN | 2019-05-16T00:00:00.000 | 2019-05-16T00:00:00.000 | Cycle Inspection / Initial Inspection | 7188924968 | 2019-06-21T06:00:53.000 | 14 | MORRIS PARK AVE | 08A |

To Jupyter Notebook

```

# Convert to pandas DataFrame
results_df = pd.DataFrame.from_records(results)

client.close()

results_df.head()

```

| | action | boro | building | camis | critical flag | cuisine description | dba | grade | grade date | inspection date | inspection type | phone | record date | score | street | violation code |
|---|---|-------|----------|----------|---------------|---------------------|-----------------------|-------|-------------------------|-------------------------|---------------------------------------|------------|-------------------------|-------|-----------------|----------------|
| 0 | Violations were cited in the following area(s). | BRONX | 1007 | 30075445 | Not Critical | Bakery | MORRIS PARK BAKE SHOP | A | 2019-06-11T00:00:00.000 | 2019-06-11T00:00:00.000 | Cycle Inspection / Re-inspection | 7188924968 | 2019-06-21T06:00:53.000 | 6 | MORRIS PARK AVE | 08C |
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| 3 | Violations were cited in the following area(s). | BRONX | 1007 | 30075445 | Critical | Bakery | MORRIS PARK BAKE SHOP | NaN | NaN | 2019-05-16T00:00:00.000 | Cycle Inspection / Initial Inspection | 7188924968 | 2019-06-21T06:00:53.000 | 14 | MORRIS PARK AVE | 04L |
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Link to Dataset: <https://data.cityofnewyork.us/Health/DOHMH-New-York-City-Restaurant-Inspection-Results/43nn-pn8j>;

“Inspiring” visualizations that frame our creative fodder

