Visualizing all parts of New York City that has Bread Shops

Introduction

- New York City is the largest city in the United states and has a deep heritage, understanding and famous history in terms of their bakeries, bread shops and now the upcoming crepe and waffle industry
- The tradition of bread started all the way back in 1678 when the Hudson Valley was discovered as a leading source of wheat to the West indies. In 1820 the famous soft pretzels which we know today became a popular street food.
- ▶ In 1911 a New York observer article stated that preventing infant mortality that one year olds should have stale bread. We all like sweets and treats when we visit so this project is good for those people that are travelling or will be staying in New York City in the future.

Data: Where we obtained the Data

- ▶ New York City data that contains list Boroughs, Neighborhoods along with their latitude and longitude.
- Data source :
- https://cocl.us/new_york_dataset
- Description:
- ▶ This data set contains the required information. And we will use this data set to explore various neighborhoods of New York city. Bread shops in each neighborhood of New York city.
- Data source:
- ▶ Foursquare API

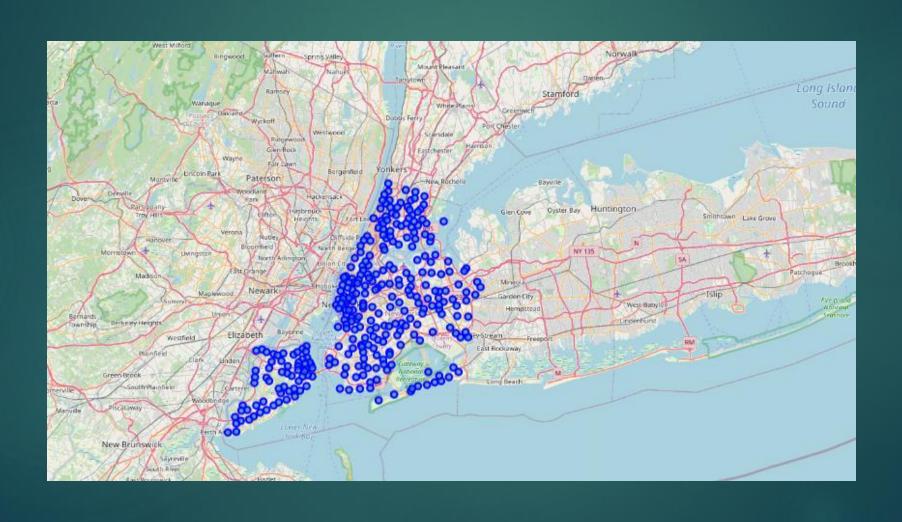
Description :

- ▶ By using this API we will get all the venues in each neighborhood. We can filter these venues to get only bread shops which include Bakeries, Donut Shops, Creperie and Bagel Shops.
- Geospace data
- Data source :
- https://data.cityofnewyork.us/City-Government/Borough-Boundaries/tqmj-j8zm
- **▶** Description :
- ▶ By using this geo space data we will get the New york Borough boundaries that will help us visualize choropleth map

Questions we will ask?

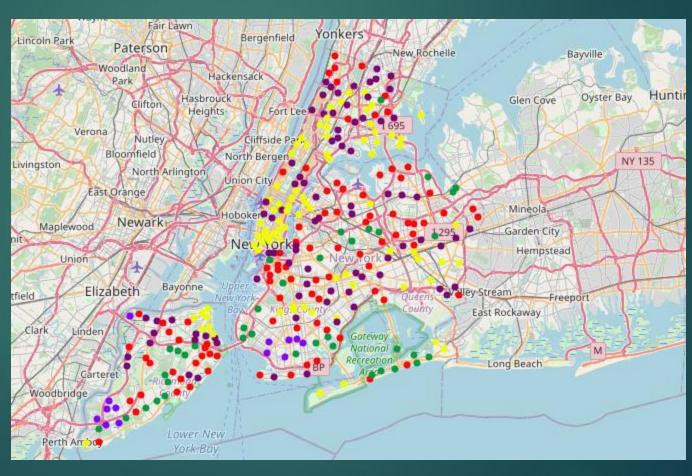
- What is the best location for bread shops in New York City?
- Where in New York is there minimal bread shops in New York City?
- Which areas have potential investment for a bread shop?
- Is there a bread shop located to many hotels?
- Is there a decline in Bread Shops due to the Covid Pandemic?

New York City Neighborhoods Map



Bread Shops which include Donut Shops, Bakeries, Bagel Shops and

Creperies



Bread Shop Statistics

	Bagel Shop	Bakery	Creperie	Donut Shop
0	0.000000	0.040000	0.0	0.040000
1	0.070175	0.052632	0.0	0.017544
2	0.039474	0.039474	0.0	0.039474
3	0.051282	0.000000	0.0	0.051282
4	0.068966	0.051724	0.0	0.017241

Most Common Venues

	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th Most Common Venue	8th Most Common Venue	9th Most Common Venue	10th Most Common Venue
0	Allerton	Pizza Place	Sandwich Place	Caribbean Restaurant	Fast Food Restaurant	Italian Restaurant	Donut Shop	Deli / Bodega	Chinese Restaurant	Bakery	Food Truck
1	Annadale	Pizza Place	Sushi Restaurant	Deli / Bodega	Bagel Shop	Italian Restaurant	American Restaurant	Sandwich Place	Bakery	Diner	Restaurant
2	Arden Heights	Pizza Place	Italian Restaurant	Deli / Bodega	Sushi Restaurant	American Restaurant	Asian Restaurant	Chinese Restaurant	Fast Food Restaurant	Bakery	Donut Shop
3	Arlington	Deli / Bodega	Fast Food Restaurant	American Restaurant	Wings Joint	Donut Shop	Bagel Shop	Pizza Place	Spanish Restaurant	Chinese Restaurant	Italian Restaurant
4	Arrochar	Italian Restaurant	Deli / Bodega	Pizza Place	Bagel Shop	Chinese Restaurant	Bakery	Food Truck	Restaurant	Sandwich Place	Food

Conclusions

- Brooklyn is the most common neighborhood area for bread shops using the statistics and graphs.
- Manhattan is the neighborhood for the potential investment of a bread shop (Donut Shop, Bakery, Creperie and Bagel Shop)
- Creperies are the least common across New York which is also a potential good Investment.
- ► There is a decline in Bread Shops due to the Corona Virus Pandemic, please read: https://www.forbes.com/sites/garystern/2021/02/03/declining-rents-trigger-sullivan-street-bakerys-expansion-in-new-york-city/?sh=3e3914a570ee