Sunday, March 13th 3PM-4:30PM

Obsessed with Boba?

Analyzing Bubble Tea Shops in NYC Using the Yelp Fusion API

Presented by:
Nathan Williamson
Ho Hsieh
Chidi Ezeolu
Mark Bauer

Thank you to the organizers!

BetaNYC | Mayor’s Office of Data Analytics

A WORKSHOP!

Accessibility

- Volume and Speed (are we speaking too loud?)
- Mute your microphone
- Participation
  - Use the chat feature or raise your hand
- If speaking, please introduce yourself

Agenda

Time	Topic
10	Introductions & Agenda (3-3:10)
5	Prerequisites (3:10-3:15)
10	Getting Data using APIs (Socrata and Yelp) | Nate (3:15-3:25)
15	Data Cleaning, Exploratory Data Analysis, Insights | Ho & Mark (3:25-3:40)
10	Jupyter Book and Streamlit Visualizations | Chidi (3:40-3:50)
30	Breakout sessions: (3:50-4:20) API Deep Dive (Nate), Dashboard/Web Apps (Chidi), EDA/Maps/Insights (Mark, Ho)
10	Summary | Q & A | Final Thoughts (4:20-4:30)

Prerequisites

- Familiarity of Python (or another programming language such as R or SQL)
- Knowledge of Data Analysis
- Familiarity with Jupyter Notebooks
- *Obsessed with Boba*

But those new to Python are gladly welcome!

Access the Project

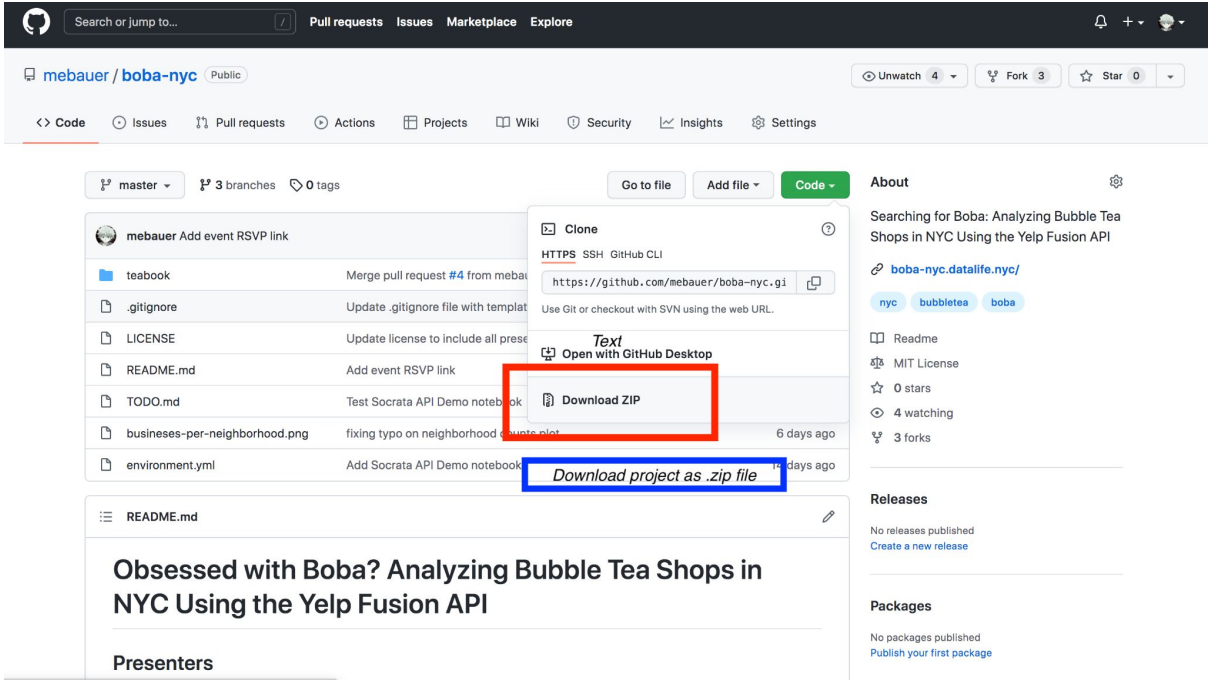
- Repository name: boba-nyc
- GitHub link: https://github.com/mebauer/boba-nyc
- Jupyter Book (online web app version): https://boba-nyc.datalife.nyc/
- Slides link on GitHub: https://github.com/mebauer/boba-nyc

Interactive Session

- Google Colab:
  - Yelp API: https://colab.research.google.com/github/mebauer/boba-nyc/blob/master/teabook/api-demo-socrata-yelp.ipynb
  - Data Inspection & Wrangling: https://colab.research.google.com/github/mebauer/boba-nyc/blob/master/teabook/boba-analysis-nyc.ipynb
  - Maps/GIS: https://colab.research.google.com/github/mebauer/boba-nyc/blob/master/teabook/boba-maps-nyc.ipynb
- MyBinder here: https://mybinder.org/v2/gh/datalifenyc/boba-nyc/HEAD

Or sit back, relax and follow along!

Download the Project as ZIP file



- **Right-click green Code button**
- **Click Download ZIP**

Break-Out Sessions

API Deep Dive (Nate)

- How to query the Socrata API with the Python sodapy library
- How to query the Yelp Fusion API with the Python requests module

Data Engineering Thoughts: Docs & App Deployment (Chidi)

- Using Jupyter Book to organize, test, & publish documents and code
- Building an interactive app with Streamlit

EDA, Maps, Insights (Ho & Mark)

- Read-in, inspect, calculate summary statistics, and map the data with Python

QA | Final Thoughts

Say Hello 👋

We can be reached at:

Presenter	LinkedIn	GitHub	Twitter
Mark Bauer	LinkedIn	Followers 52	Follow @markbauerwater 487
Chidi Ezeolu	LinkedIn	Followers 5	
Ho Hsieh	LinkedIn	Followers 1	
Nathan Williamson		Followers 3	

GitHub: https://github.com/mebauer/boba-nyc