

Artifact 1: NYC Open Data

Overview (1 - 2 paragraphs)

NYC Open Data is data used from the website NYC Open Data and it gathers information from various different sources and topics. My project is primarily focused on restaurant inspection, not the one that they go in and inspect the food. It's the one where they check their roadway outside of the restaurant to ensure there are no holes or potholes randomly on the roads to keep others safe. The data is mainly from the department of transportation as they are the people who focus on this specific issue and address any complaints. The intent of this project is to also show the locations of the restaurants by searching through boroughs and display data by boroughs with other relevant information.

Technology

The technologies used vary from many different ones. One used is the website that we got the data from, which is NYC Open Data website, we searched for a topic which is restaurant inspection and looked into the data. We used a json editor to provide the data for our js to grab and convert it, so it can shorten the data for us to display on the website. We also did a bit of styling to make our websites look better. We used drop down boxes to make our website more interactive and overall makes it look more advanced.

Resources

<https://github.com/JerryL76/NYC-Open-Data>

<https://data.cityofnewyork.us/resource/4dx7-axux.json>

Screenshots

HomePage

InfoPage

AnalysisPage

Home Page

This page will demonstrate and briefly give an overview of what an restaurant inspection is, a brief overview of what the department of transportation do and guide you around the websites. The data is also provided by the NYC open data website which you can find by typing in restaurant inspection. The information page is to display the addresses and the information about those restaurant and what the complaints are for and handled by.

Overview

Click Here For Information



HomePage				InfoPage				AnalysisPage																																																																																																						
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Analysis Page

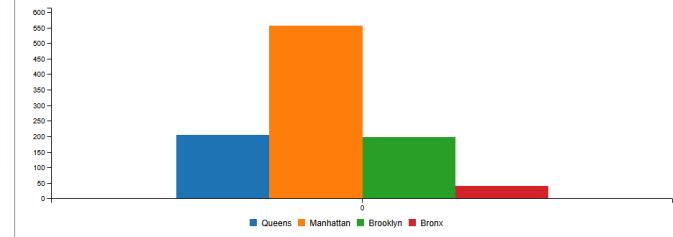
This page will show the charts with datas.

Select Chart Type

Bar

Restaurants by Borough

[Display](#) Creating a chart that displays the number of restaurants in that borough.



Example Artifact 1: Attack of the Killer Snowmen (Escaping Reality Project)

Overview

Northpole has been invaded by killer snowmen. It's your job to save the magical ice cubes and return them home in order to vanquish the invaders. This is a first person game where you are placed amidst a forest surrounded by the dormant invaders waiting for their time to strike. You have 60 seconds to collect 5 magical ice cubes and return them to the house in the forest. If you are successful, the invading killer snowmen will be sent back from where they came, otherwise you will be their next victim.

Technology

Attack of the Killer Snowmen is built using AFrame.io, a web framework for creating 3D / VR / AR experiences. Because AFrame.io is a web framework it has elements of HTML and JavaScript. Minimal static HTML was used to set up the environment. Most of the HTML used to render the experiences was dynamically generated using JavaScripts. Classes were used to model the snowmen and ice cubes. 3D models from Sketchfab.com were used to represent the trees, snowmen, ice cubes and the house.

Resources

<https://github.com/rcastro2/AttackOfTheKillerSnowmen>

Screenshots



Example Artifact 2: SpongeBob Adventures (We Code You Play Project)

Overview

Help SpongeBob get to work at the Krabby Patty in order to feed his friend Patrick. Beware of Squidward, Mrs. Puff and the troublesome jellyfishes looking to stop you from getting to work. If SpongeBob manages to get to work, he must be careful of Plankton who is looking to cause havoc at the Krabby Patty as SpongeBob attempts to feed Patrik.

The first stage of the game SpongeBob must drive himself and Patrick to the Krabby Patty. Avoid Squidward, Mrs. Puff and the troublesome jellyfishes as each provides their own unique challenge to prevent SpongeBob from getting to work. The second stage involves assembling Krabby patties in the right order so that he can feed Patrick. Don't take too long as Patrick is extremely hungry. Watch out for Plankton who is looking to slow you down as you assemble the Krabby patties. Plankton is probably trying to steal the secret recipe for the Krabby patties.

Technology

SpongeBob Adventures is built using Python, PyGame and gamelib.py. Various objects such as Images and Animations were created using classes found in gamelib.py. The logic of the program involves using separate "game loops" to represent each "screen" in the game. There was extensive setup required prior to each game loop. Both stages of the game used lists to store the various moving pieces. For loops were used to traverse these lists while in the game loops in order determine the result of the interaction with the objects in the list. Various Spritesheets and graphics were obtained through the internet.

Resources

<https://replit.com/@rennecastro/Spongebob-Adventures>

Screenshots



Example Artifact 3: How to Make a Meal (Web Development)

Overview

Ever stare into your refrigerator wondering what you can eat? How to Make a Meal empowers the user to search for recipes based on a specific ingredient. A list of potential recipes are displayed allowing the user to select a particular recipe. Upon selecting the desired recipe, an image of the meal, required ingredients and steps for the recipe are displayed. YouTube is also displayed if available.

Technology

Web pages were developed using HTML and CSS. JavaScript was used to provide the functionality of retrieving information and dynamically displaying to the page. JQuery was used to retrieve JSON information from [TheMealDB](#) through API calls. Functions and classes were used to abstract the logic of the program into manageable components.

Resources

<https://replit.com/@rennecastro/2122WDT4Lesson551CSolution>

Screenshots

This screenshot shows a search interface for finding recipes. At the top, there is a blue header bar with the title "How To Make A Meal". Below the header is a search input field containing the word "cheese". To the right of the input field is a blue "Search" button. The main content area displays a list of recipe names:

- Cream Cheese Tart
- New York cheesecake
- Three-cheese souffles
- Honey Yogurt Cheesecake
- Peanut Butter Cheesecake
- Chicken Fajita Mac and Cheese
- Grilled Mac and Cheese Sandwich
- Fruit and Cream Cheese Breakfast Pastries

This screenshot shows the details for a selected recipe, "Cream Cheese Tart". The top bar is blue with the title "How To Make A Meal". Below the title is a sub-header "Cream Cheese Tart". The page includes the following sections:

- Ingredients:** A table showing the required ingredients:

250g	Flour
125g	Butter
1	Egg
Pinch	Salt
300g	Cheese
100ml milk	Milk
3	Eggs
100g	Parmesan Cheese
350g	Plum tomatoes
- Crust:** A detailed description of how to make the crust: "make a dough from 250g flour (I like mixing different flours like plain and wholegrain spelt flour), 125g butter, 1 egg and a pinch of salt. If it's too thick add some 300g cold water. Roll out the dough until it's about 3mm thick. Add the cheese and Parmesan cheese to the dough. Add the eggs and milk. Season with salt, pepper and nutmeg. Take the crust out of the fridge and prick the bottom with a fork. Pour in the filling and bake in the oven at 180 degrees for 30-35 minutes. Once the tart is cooked, remove it from the oven and let it cool for a few minutes. In the mean time, slice about 350g plum tomatoes. In a small pan heat 30ml olive oil, 30ml white vinegar and 10g honey. Once the oil and vinegar are heated, add the honey and stir. Once the tart has cooled, place the tomato slices on the tart, avoiding too much liquid on it. Decorate with basil leaves and enjoy!"
- Image:** A thumbnail image of a cream cheese tart.
- YouTube Video:** A large black rectangular area with a red play button icon, indicating a video player.