Challenge 3 Description

API (Application Programming Interface) is an interface between applications. The server online that provides the API lets you program two interfaces between said applications. It is different from GUI (Graphical User Interface) that lets an interaction between a user and an interface. With Javascript, we can create a website that asks for information from API website providers like Openweather and Mapbox and display it on the website.

API works with JSON (Javascript Object Notation), which is a language to store and transport data. API data has to be converted to JSON in order to work.

In the third challenge, I used Openweather and Mapbox API. This is how the website looks like:



The codes are below:

In the .js file, I put the mapbox API token and put the style to satellite mode to emulate a space station interface. I wanted the map to show The Hague and its surrounding cities, so I set the zoom to 10.

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This is how the HTML looks like. In order for the map and the city information to show up, I had to type in the width and height of the div section.

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function getAPIdata() {
vor url = 'https://api.openweathermap.org/data/2.5/weather';
vor apikey = 'ficificos/data/dd0566flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo536flo53
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For the city information section, I used an API from OpenWeather and decided to put the city name, population, and timezone. I set the city's information to Den Haag in order to correlate it with the satellite map above.