

Challenge III - <https://wolegna.github.io/PRO2/>

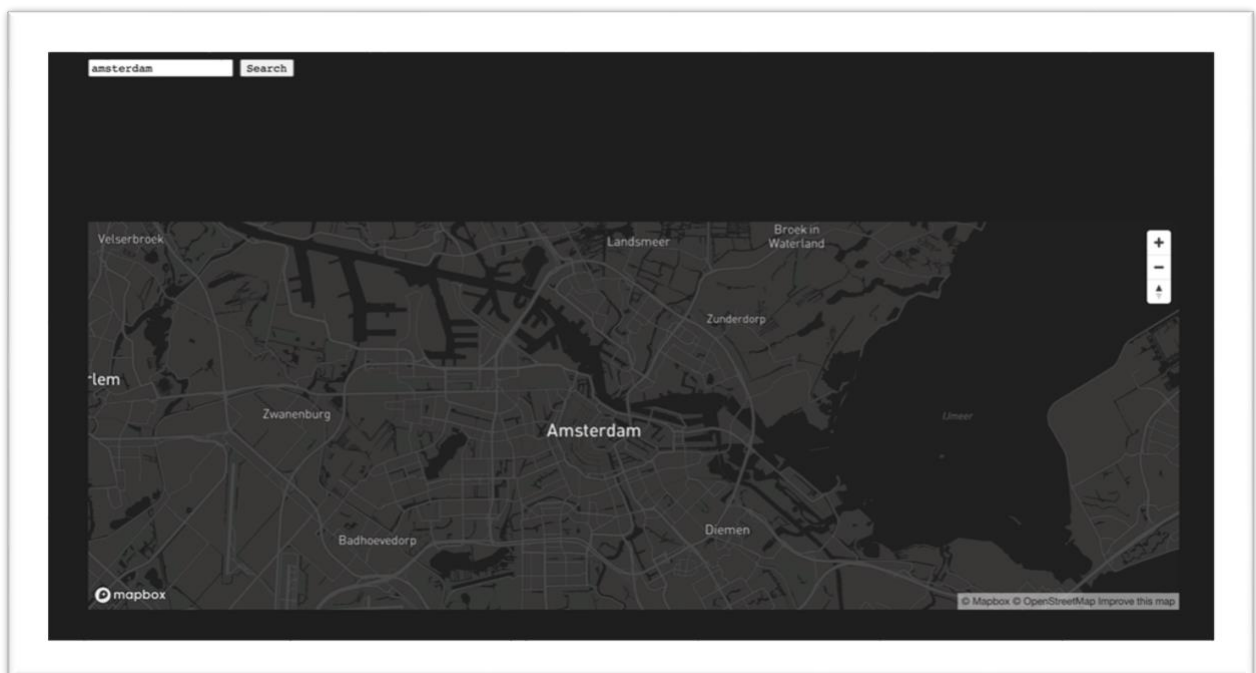
Topic – The last couple of weeks focused on API's. We learned how API's work, how to authenticate in one, and how they output information. We also learned how to export it to json, to then have it be readable under the form of attributes for an object, which we would then be able to pick and use elsewhere.

Assignment – Our third assignment focused on combining 2 or more API's, to provide useful data about which places would provide a decent landing spot for the people returning from mars.

I decided I wanted to use a combination of MapBox API – due to being free compared to GMaps, and OpenWeather API, to show the landing spot, current weather and other info related to it.

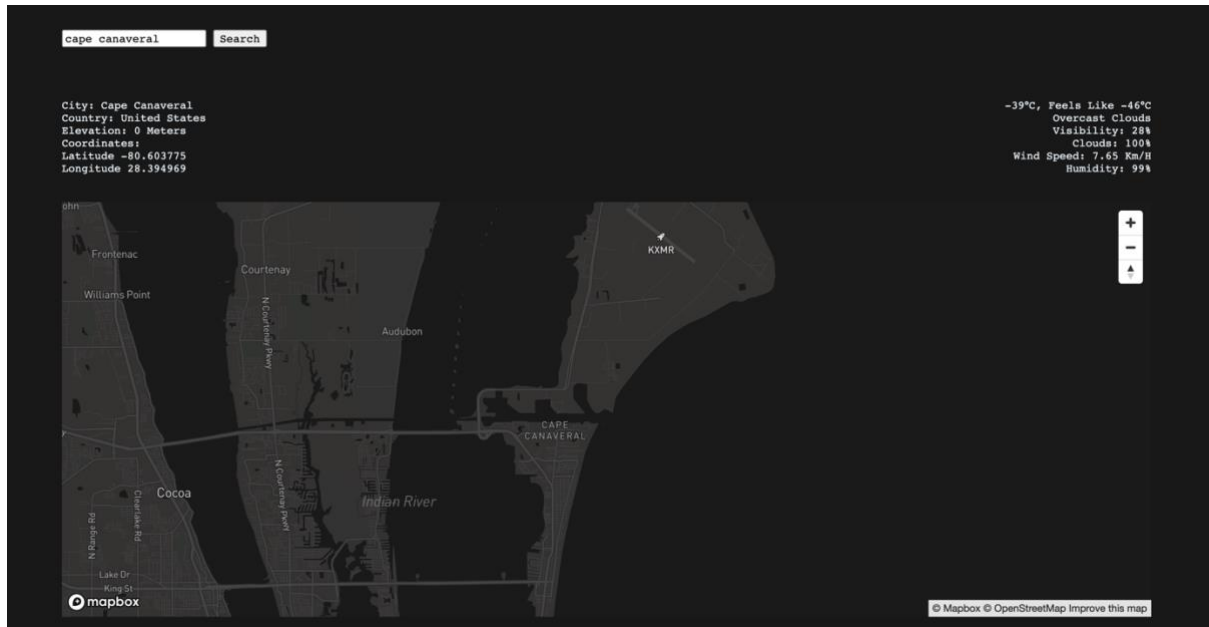
At first I added and personalized the map for MapBox, but I quickly realized that even though MapBox would provide the search option, I could not further extract that searched location to use it as input for the other OpenWeather API, so I had to come with a different solution.

This is where the 3rd API comes in play, GeoCoding API (I know mapbox also provides this in their search option, but the problem I had still stands).



I went through a number of GeoCoding API's before I found one that still works and was not abandoned, and I implemented it with the help of a search field on the page. The input of that search field would be sent to the GeoCoding API to transform into lat/long cords, which I would then use for the *center*: attribute of MapBox.

From now on everything got simpler, because I could use the city from the search bar to also retrieve info from OpenWeather, and I added an Elevation API that would use the lat/long from the GeoCoding API just to make it display even more detailed info about that location.



Now as expected, there are some bugs with the APIs, like displaying current temp in Florida as -39 deg C, although the temp is displayed in metric system or the elevation in Bucharest being 700m, while in reality it is 100m, but the point is that the API's are now interconnected, and work together, which I am fairly proud of