

GEOGRAPHIC DATA VISUALIZATION

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INTRODUCTION

Aim: To create a travelogue and illustrate the places visited and experience encountered.

- Using GeoJSON Map to Visualize US State Data Geographically
- This customized Geomap offers various interactive visualization.
- It lets you keep track of places visited in US and description of the places visited.

DATA DESCRIPTION

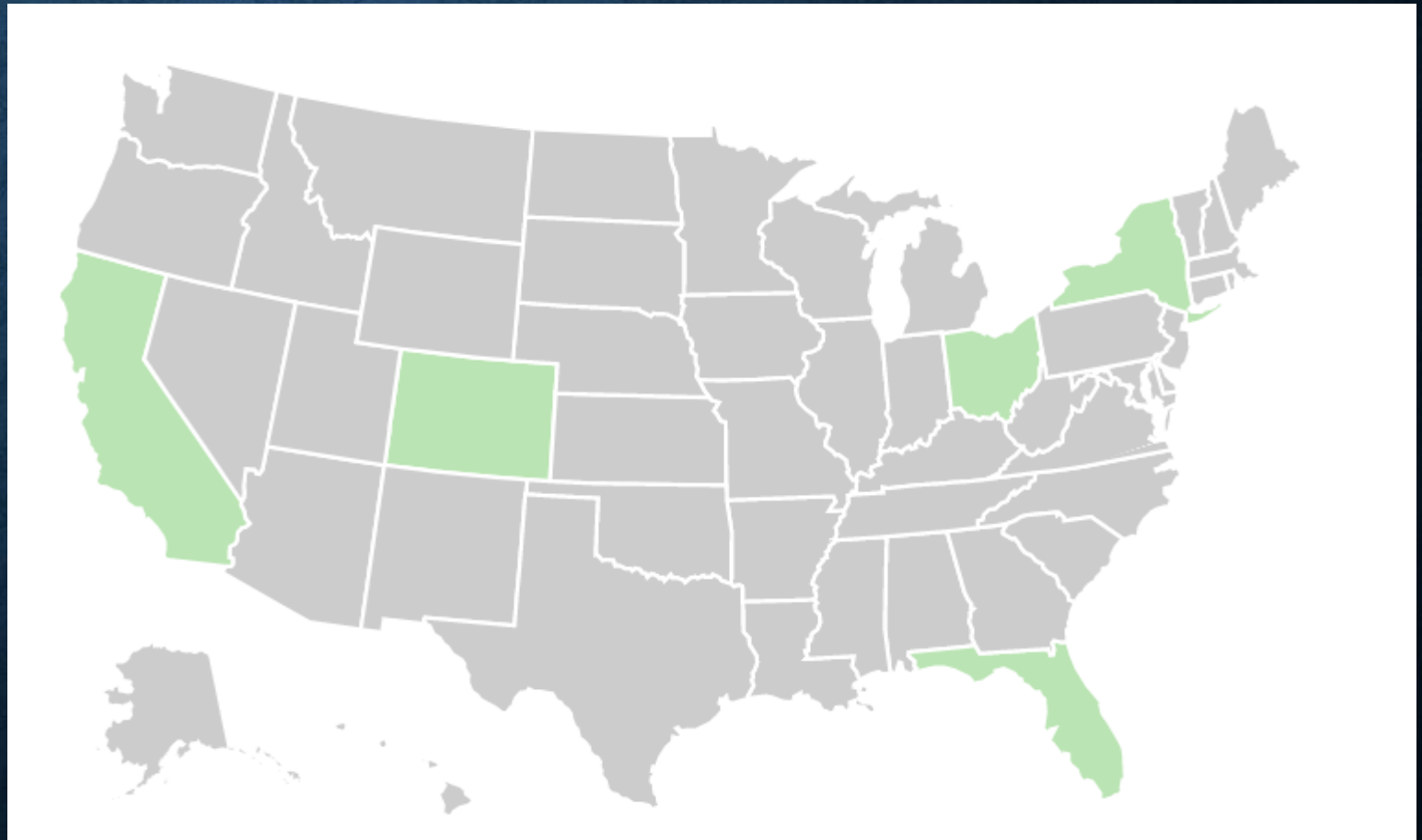
Two types of files were used.

1. A GeoJson file **us-states.json** to map US-state boundaries taken from one of the *Mike Bostock's* examples
2. A CSV file to color code the visited states – the file was generated by giving all the place names in a [Batch Geocoder](#). Then converting the comma separated output into a CSV file.

ALL THINGS INTERACTIVE!!

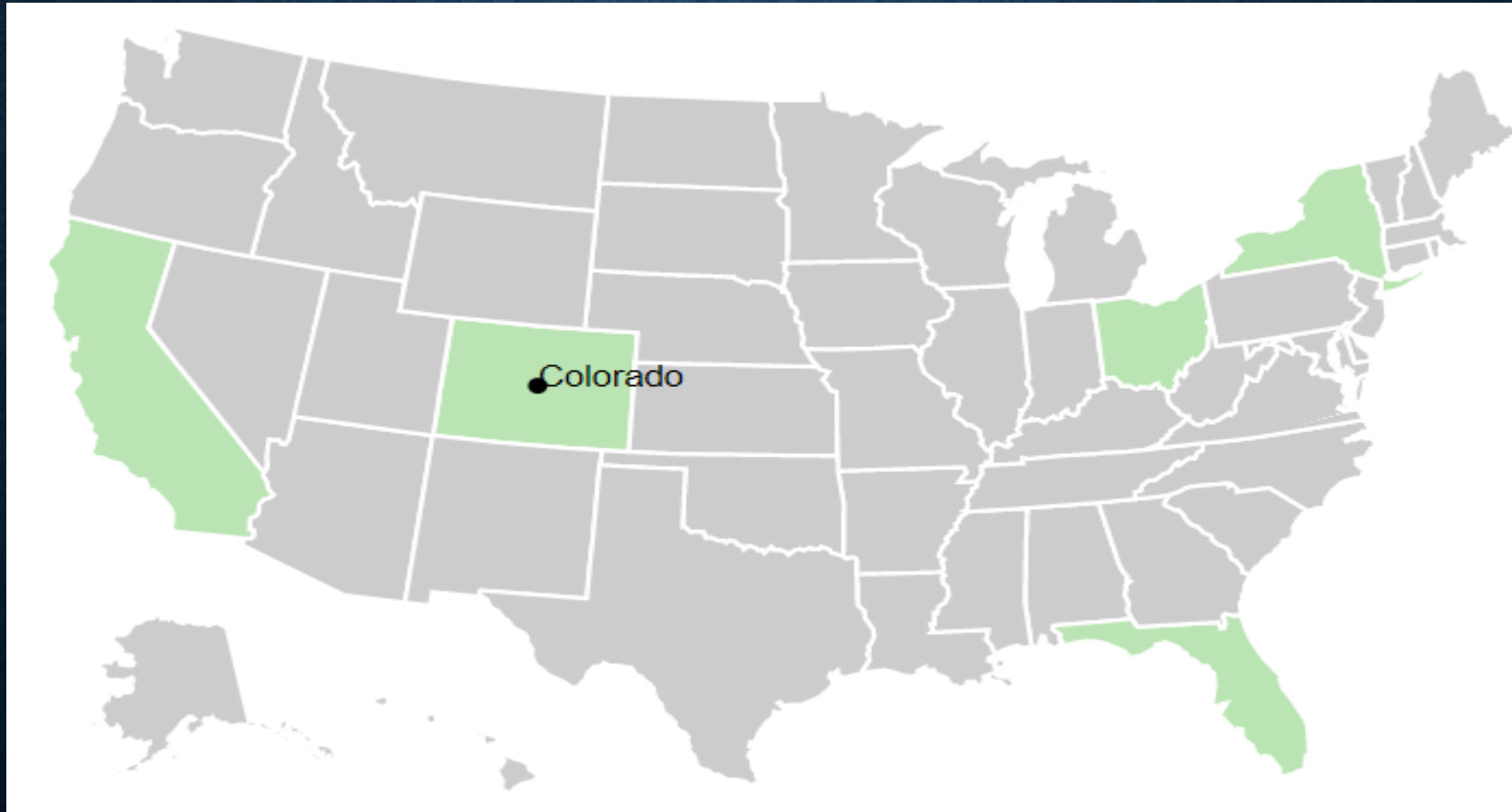
1. The visited states are color-coded.

The color coding is done by reading a CSV file and looping into each states that are in the CSV. CSV file contains California, Clorado, Florida and New York state names.

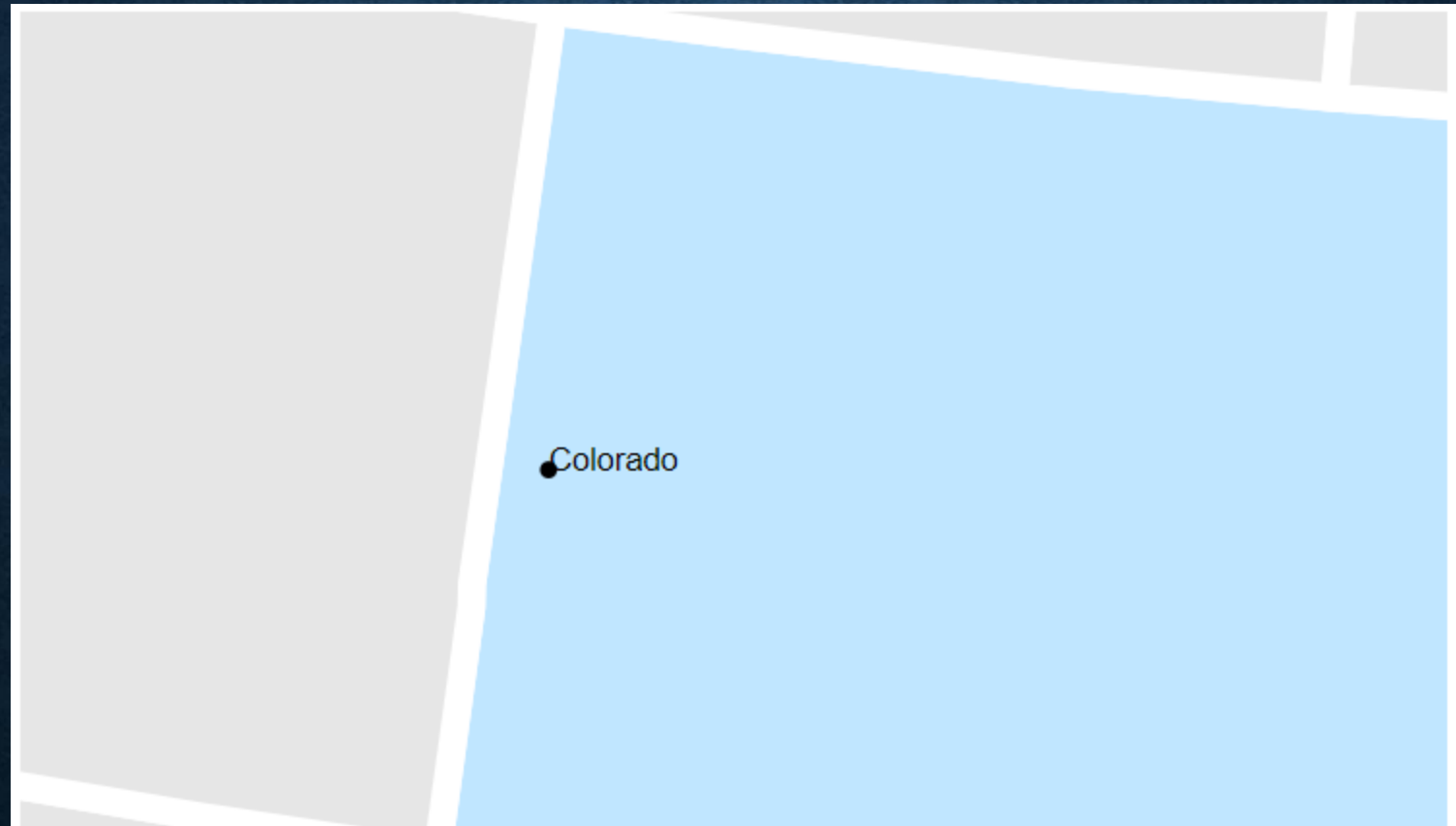


2. Hover over each state to see the name of the state.

mouseover event is used to show the names of each state.



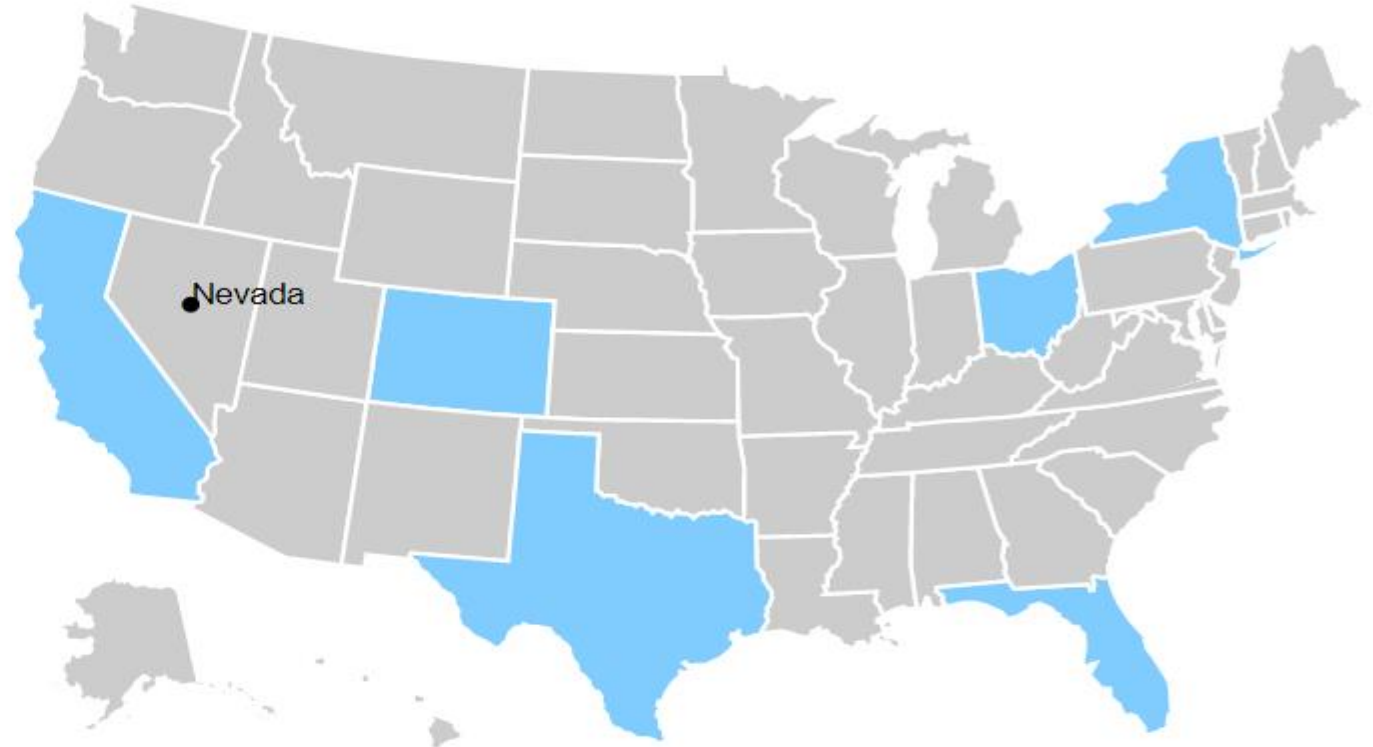
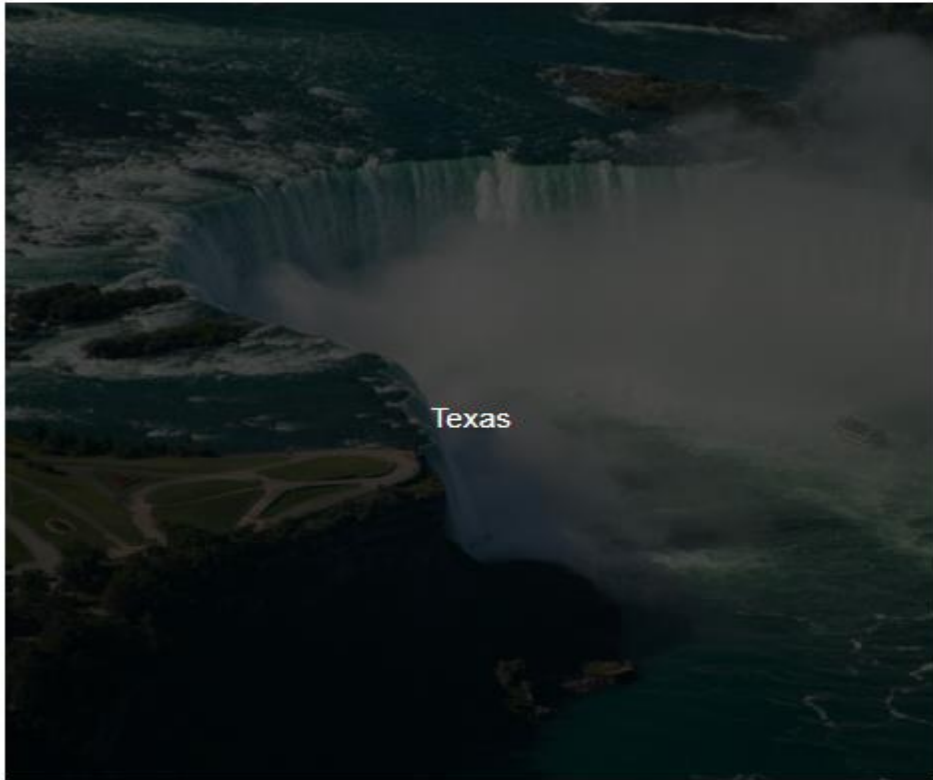
3. Click on any state to zoom and visualize it.



4. When a new state is entered in the input field you can see it change the color on the map.

An empty array is created to store all the newly added states which is then appended to the main array and used to change the color. Multiple states can be added at a time.

Enter a new state you visited:



5. Use drop-down to see description of a state and the state's most popular places.

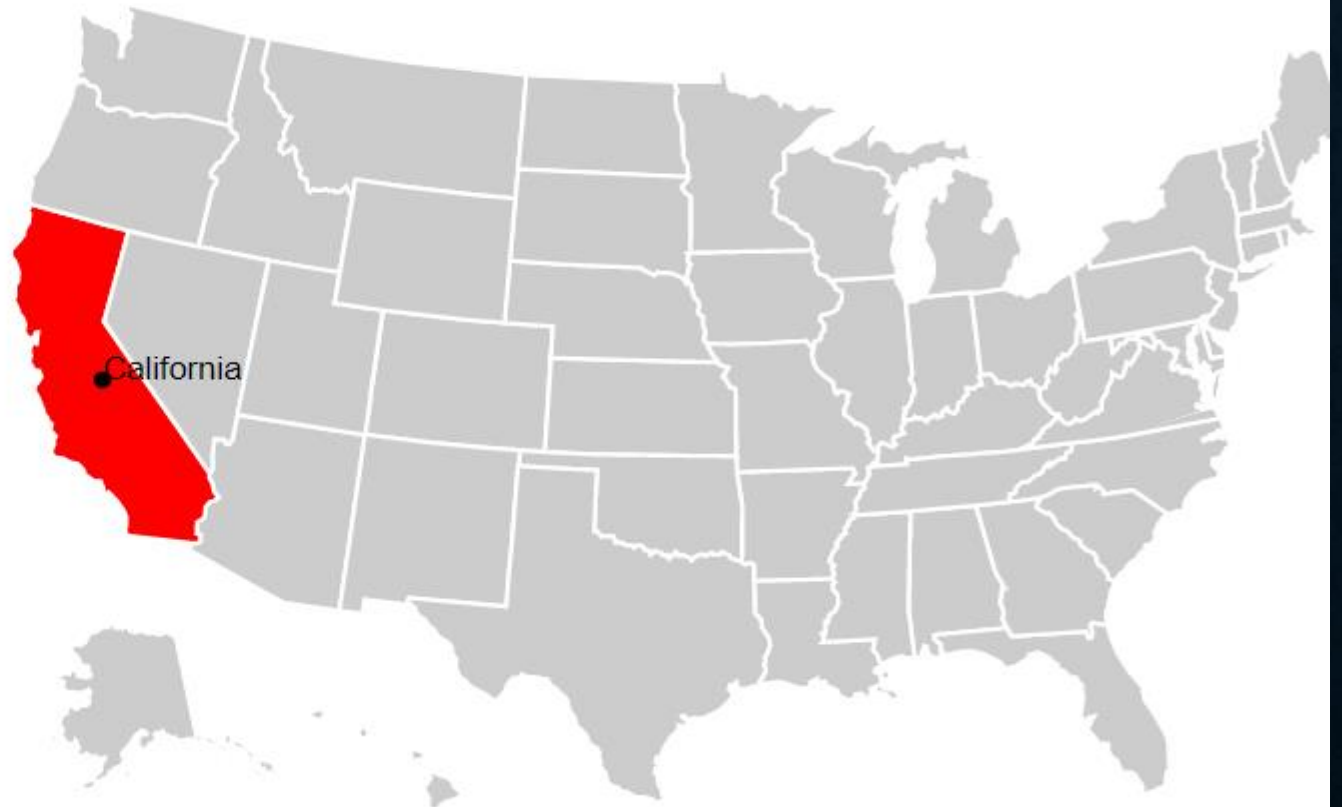
The selected state gets highlighted on the map and description of the place shows up on the image.

California ▾

Enter a new state you visited:

Enter

The Golden State gets its name for a reason. California's diverse cultural and geographical offerings, vibrant cities and critically acclaimed culinary scenes are truly the gold standard for travelers. California's best vacation destinations include: #1 San Francisco: San Francisco brims with life everywhere you go. the city's energy is downright electric. #2 Yosemite: One of the country's most popular national parks. Yosemite offers every adventure activity you can possibly think of also, don't leave without exploring Glacier Point, Half Dome and Vernal Fall.



CONCLUSION AND FUTURE ENHANCEMENTS

- The visualization could be used as a full fledge travelogue to illustrate the places visited and experience encountered by a traveler.
- Visited spots or cities can be located by adding points on the map.
- Given the latitude/longitude of the points the distance between two points can be calculated.
- More images can be added to make the visualization more interactive.

THANK YOU!