

Team CAL-Fire Berkeley Ext. Project 2 2020

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Overview

In an effort to provide a more detailed view of the forest fires in the state of California the group has created an interactive map supplemented by graphs detailing the the extent of the fires.

Add source and cal fire logo and mention cal fire api

WWW.Weblink.com



Overview of Code Functions

The mapping and graphical content of the site was created using the following steps.

- JavaScript utilizing D3.json library was used to request the data from the CAL Fire API www.calfire.ca.gov
- Mapbox was used to create a map of the state of California
- Leaflet.js library is utilized to label points on the map and to create custom icons and markers.
- The graphs are created using Python to retrieve the data
- The Pandas library within Python filters and organizes the data
- Plotly is used to plot graphical visualizations
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Process Flow



Challenges/Roadblocks

A major roadblock in our development of the maps was the CORS Policy restrictions.

```
✖ Access to XMLHttpRequest at 'https://www.fire.ca.gov/umbraco/api/IncidentApi/GeoJsonList?inactive=false' from origin 'null' has been blocked by CORS policy: No 'Access-Control-Allow-Origin' header is present on the requested resource. index.html:1
```

The way this error was overcome was to add the following lines of code to reroute data to a third party server to avoid the CORS policy restriction.

```
const proxyurl = "https://cors-anywhere.herokuapp.com/";  
const APIurl =  
"https://www.fire.ca.gov/umbraco/api/IncidentApi/GeoJsonList?inactive=false";  
var queryJSON = proxyurl + APIurl
```

Code

Code

Visualization

Graphs and maps screen capture

Insights and Observations from the Data

- There were a large number of fires each year
- Especially when the years are combined, the map gets cluttered
- The icons do not differentiate by size of fire
- Some fires span across counties and the csv reflects this

What Could Be Next

Ideas for further analysis:

- Adjust the size of the icon based on the acreage of fires
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Questions?