

U.S. GDP 2015-2019

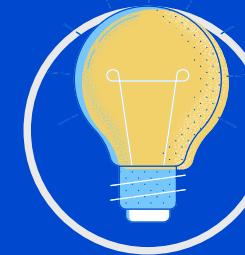


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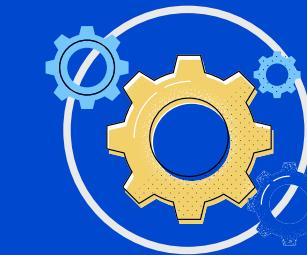


Our Objective

OBJECTIVE



Understanding the Economic Value that each state contribute to the total GDP.



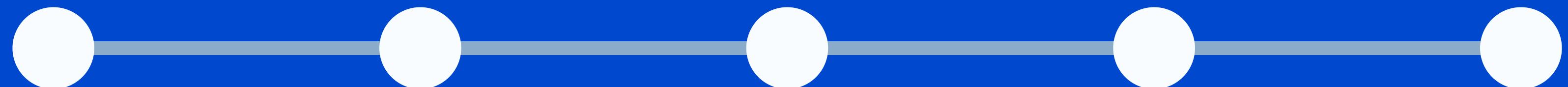
Time Frame 2015 -2019



Create an interactive visualization dashboard of GDP of all US States and counties



PROCESS



EXTRACT

- Data Sets & Sources
- API call
 - The US Bureau of Economic Activity
 - Geolocation Points from OpenDataSoft

TRANSFORM

- Merge & Clean the data set
@Jupyter NB



LOAD

- End structure of datasets & storage
@ MongoDB



VISUALIZATION

- Draw line/bar graphs & bubble map with D3.js, Leaflet.js and Plotly.js



ANALYSIS

- Analyze the data sets
- Find the implications & Conclusion

OUR PROJECT

OUR PROCESS

VISUALIZATIONS

CONCLUSION

United States GDP Visualization

Presented by the Conservatory.

What we did

We created an interactive visualization dashboard of key economic indicators of all US States and counties from Y2015 to Y2019 to better understand the economic value being contributed to total GDP.

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Extract and Transform

Data was extracted from the websites of the US Bureau of Economic Activity (BEA) as well as the opendatasoft website by API request. The US Bureau of Economic Activity provided our GDP numbers while the opendatasoft website provided our geo locations such as counties. The response was parsed and transformed into a desirable format to be loaded into mongo db. The transformation involved an iterative process of data cleaning and munging

Load

We loaded transformed data into MongoDB, and transformed into JSON and then loaded into the database.

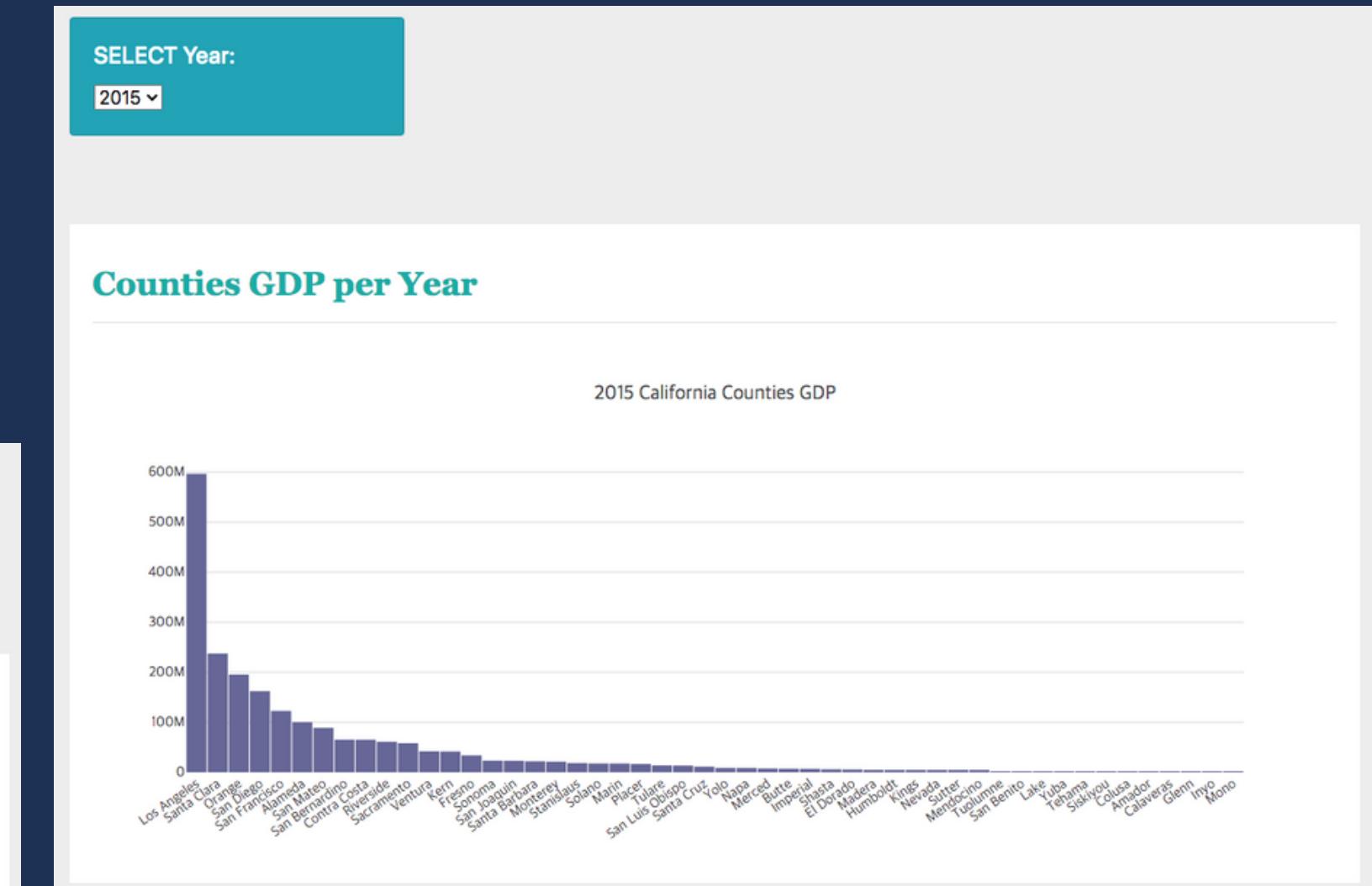
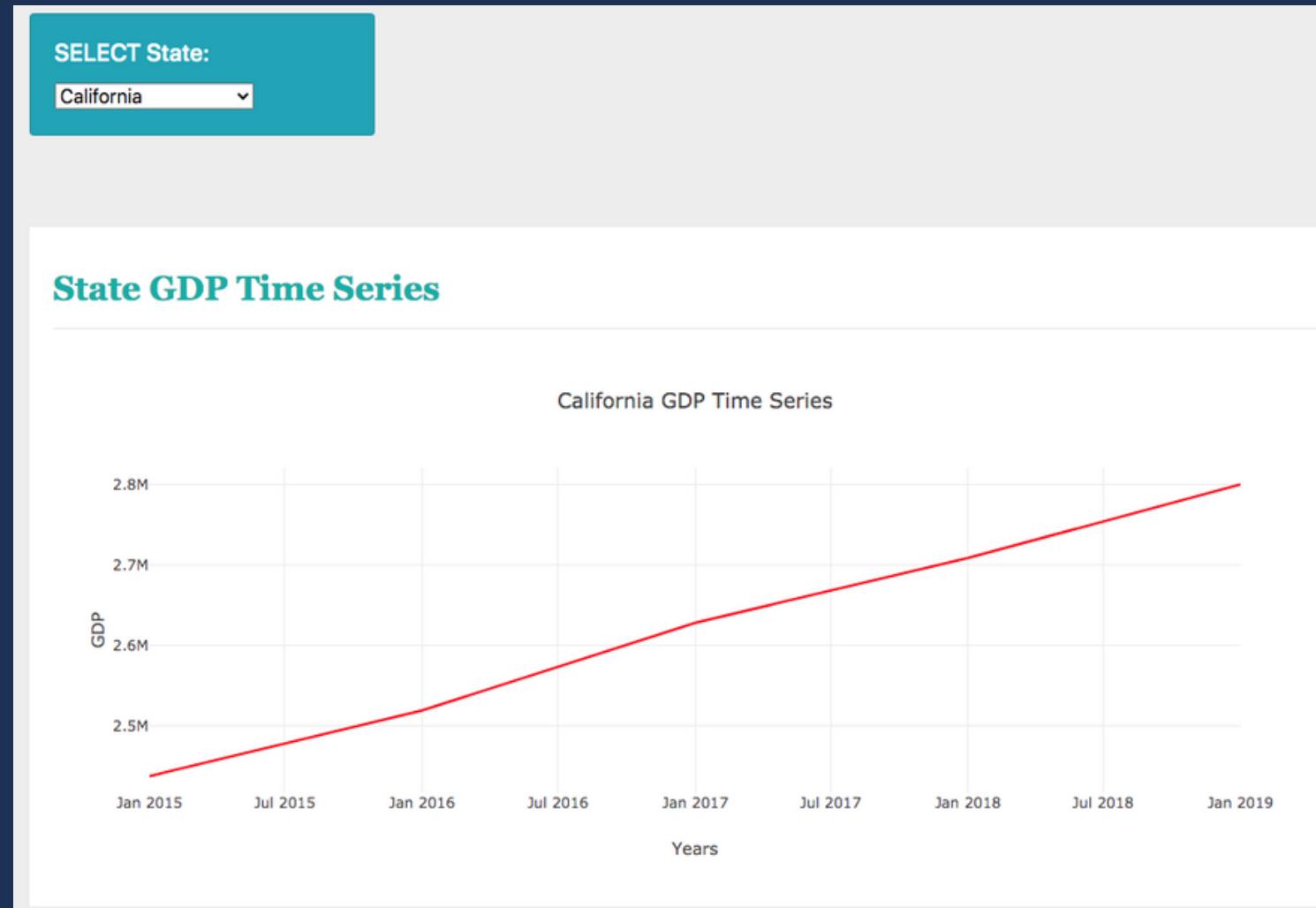
Visualizations

We employed JavaScript and associated libraries such as D3.js, Leaflet.js, and D3plus. The data for the state

Analysis

The state with the highest GDP is California, and the county with the highest GDP is Los Angeles County. From 2015 to 2019,

VISUALIZATIONS



VISUALIZATIONS

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SELECT State:

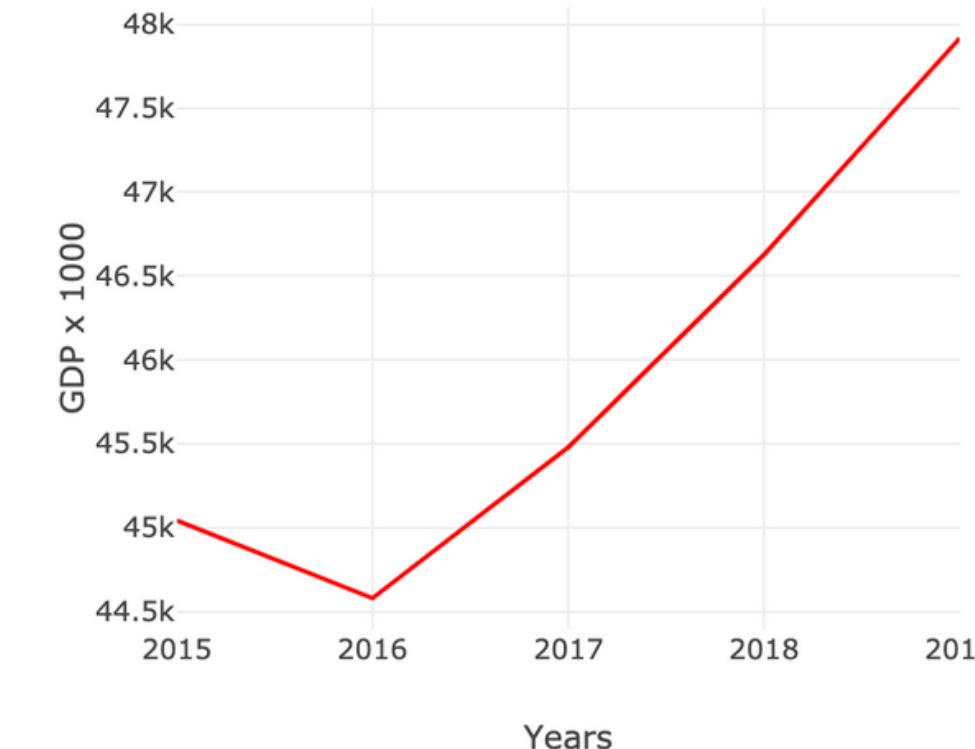
Montana ▾

Average GDP Rank of
Montana

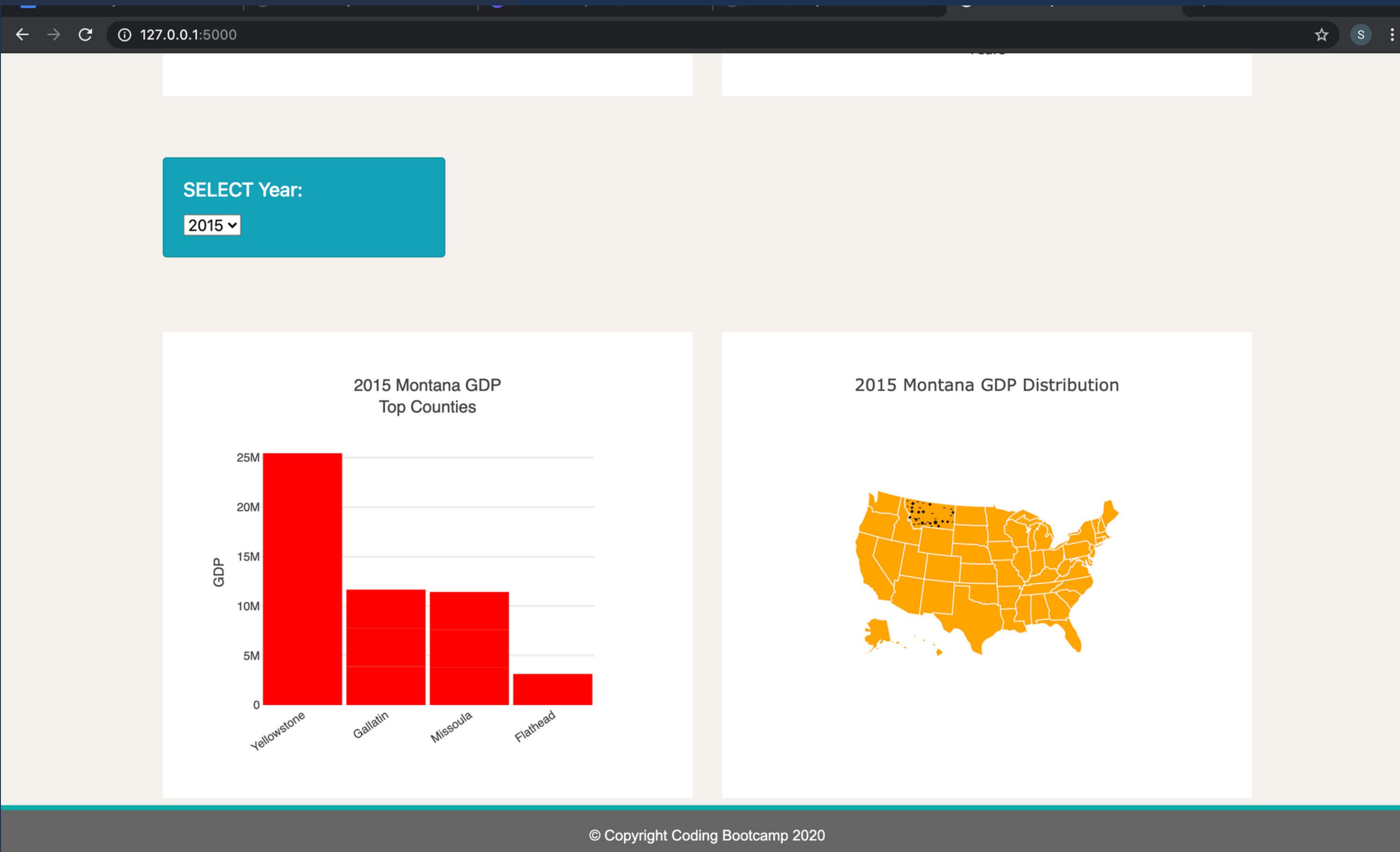
49

SELECT Year:

Montana GDP Time Series



VISUALIZATIONS



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Conclusion

Through this dataset, we can see that California ranked #1 with the highest GDP, followed by Texas and then New York. In more in-depth analysis, we can see that Los Angeles County was the county that contributed to the high ranks in California Harris County from Texas, and New York from New York.