GETTING A RECOMMENDATION ON WHICH STATE CAPITAL TO VISIT BASED OFF USER'S PALATE
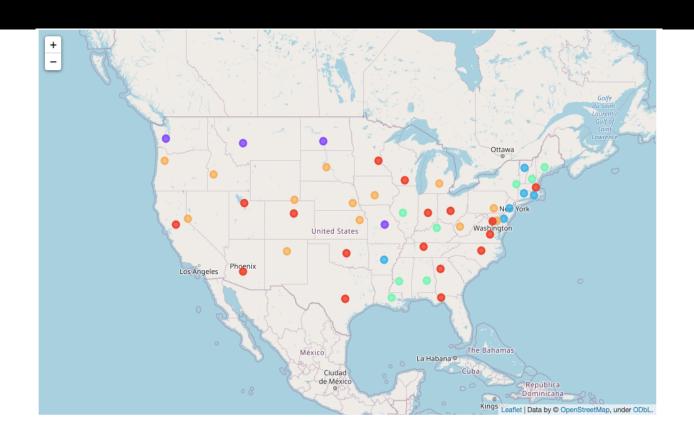
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INTRODUCTION

- Many users, especially with food concerns, want to explore new cities to broaden their experiences, but have a hard time seeing if a location can handle their food needs.

- This project aims to simplify those concerns by recommending State Capitals based off the user's palate.

- This project can be easily scaled to more than just the State Capitals.

DATA ACQUISITION

- The data was found using Foursquare API, which gave names of venues and the venue's category.

- I was limited to 50 venues per search query, which decreased the information gained from more densely populated Capitals.

- There were cases of duplication and non-food categories that I deleted.

- I didn't want to have 100 categories that a user would need to rate before getting a recommendation, so I narrowed it down to 27 categories.

	Capital	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th Most Common Venue	8th Most Common Venue	9th Most Common Venue	10th Most Common Venue
0	Albany	Bar	Fast Food Restaurant	American Restaurant	Chinese Restaurant	Coffee Shop	Sandwich Place	Food Truck	Latin American Restaurant	Asian Restaurant	Breakfast
1	Annapolis	Coffee Shop	Bar	Fast Food Restaurant	Breakfast	Seafood Restaurant	Italian Restaurant	American Restaurant	Latin American Restaurant	Japanese Restaurant	Food Truck
2	Atlanta	Food Truck	Coffee Shop	Fast Food Restaurant	Breakfast	Bar	American Restaurant	Chinese Restaurant	Southern / Soul Food Restaurant	Italian Restaurant	Seafood Restaurant
3	Augusta	American Restaurant	Fast Food Restaurant	Coffee Shop	Italian Restaurant	Bar	Breakfast	Chinese Restaurant	Southern / Soul Food Restaurant	Latin American Restaurant	Seafood Restaurant
4	Austin	Food Truck	Coffee Shop	Bar	Fast Food Restaurant	Latin American Restaurant	American Restaurant	Chinese Restaurant	Breakfast	Asian Restaurant	Italian Restaurant

CLUSTERED STATES

RECOMMENDATION SYSTEM

Users were asked to rate each of the 27 categories using a 0-5 scale. I collected this data using [Google Forms](). The program would then list the top 5 State Capitals

```
Lindsay  will enjoy:
          Capital            State
1          Juneau           Alaska
18        Augusta            Maine
27     Carson City          Nevada
30       Santa Fe       New Mexico
40         Pierre     South Dakota
```

```
Chris will enjoy:
          Capital            State
9         Atlanta          Georgia
18        Augusta            Maine
20         Boston    Massachusetts
39       Columbia   South Carolina
42         Austin            Texas
```

CONCLUSION

- In conclusion, while I believe that the recommendation system works, I believe that it could be better.

- I would really like to see recommendations based off the ratings of the venues instead of just the density. Just because a Capital may have a lot of a certain category, it may not be very good.