

Restaurant Genre and Its Relation To Public Health

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Goals

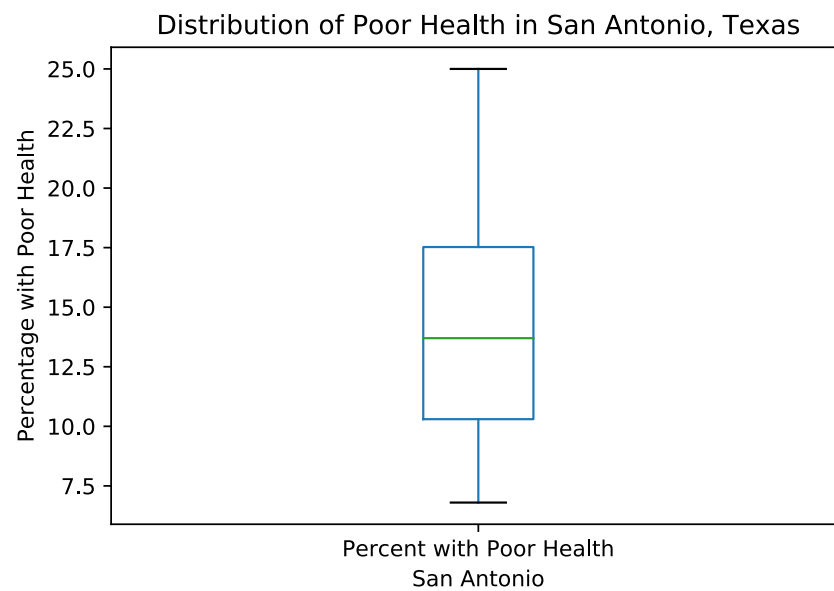
- ▶ Make use of Foursquare api and 500 city health data from Centers for Disease Control and Prevention to improve health
- ▶ Find Correlations between percent of people over the age of 18 with poor health for more than fourteen days and the most prevalent types of food near them.
- ▶ Use San Antonio, Texas political districts and a model for revealing correlations.

Distributions of Poor Health Percentages for major cities

The distribution of people with poor health for more than fourteen days for San Antonio was compared to four other major cities.

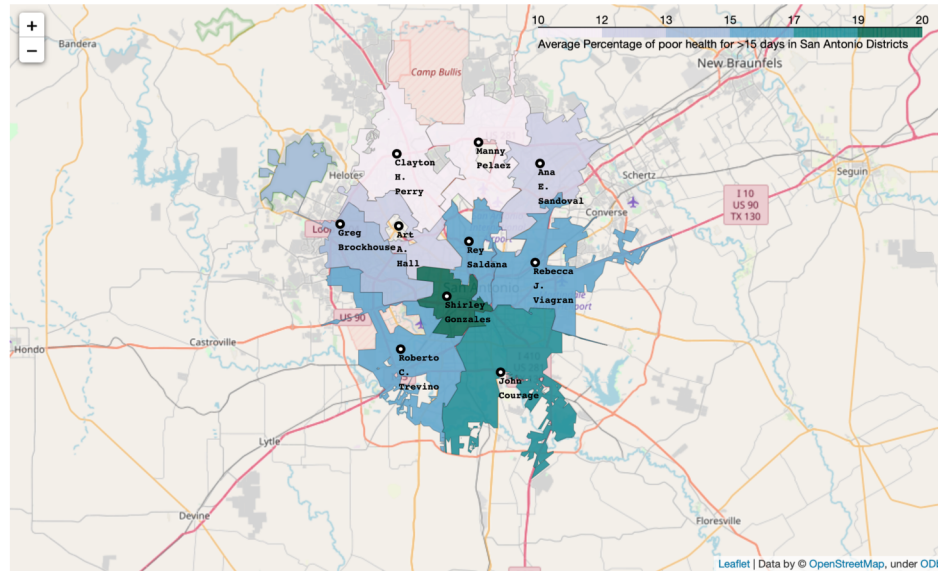


Closer look at quartiles in San Antonio Health Data



Choropleth Map of San Antonio Showing the Average Rates of Poor Health per District

Shirley Gonzales is by far the district with the highest average rate of poor health.

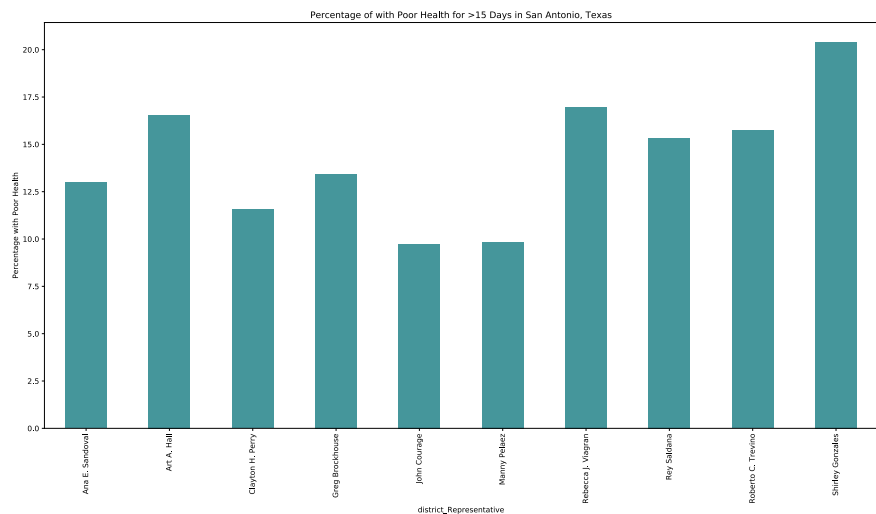


Leveraging the Foursquare database api with the San Antonio health data

- ▶ Restaurant genres allocated for each location point in the dataset from the foursquare api
- ▶ Each of the genres allocated was grouped by the district that the data point was located within
- ▶ The top five genres for each of the districts were found and organized into a table

Results

Poor health by district



Top five restaurants for each district

	Most Common Restaurant	2nd Most Common Restaurant	3rd Most Common Restaurant	4th Most Common Restaurant	5th Most Common Restaurant	Average Percent Poor Health
Shirley Gonzales	Mexican Restaurant	Burger Joint	Restaurant	BBQ Joint	Seafood Restaurant	20.41428571428570
Rebecca J. Viagran	Mexican Restaurant	BBQ Joint	Fast Food Restaurant	Burger Joint	Seafood Restaurant	16.976470588235300
Art A. Hall	Mexican Restaurant	Burger Joint	BBQ Joint	Fast Food Restaurant	American Restaurant	16.542857142857100
Roberto C. Trevino	Burger Joint	Mexican Restaurant	Pizza Place	Taco Place	American Restaurant	15.723529411764700
Rey Saldana	Mexican Restaurant	Burger Joint	Fast Food Restaurant	Sandwich Place	BBQ Joint	15.342307692307700
Greg Brockhouse	Fast Food Restaurant	Mexican Restaurant	American Restaurant	Donut Shop	Burger Joint	13.419230769230800
Ana E. Sandoval	Mexican Restaurant	Fast Food Restaurant	Sandwich Place	Donut Shop	Burger Joint	12.985294117647100
Clayton H. Perry	Mexican Restaurant	Pizza Place	Thai Restaurant	Fast Food Restaurant	BBQ Joint	11.551612903225800
Manny Pelaez	Mexican Restaurant	Fast Food Restaurant	Mediterranean Restaurant	American Restaurant	Steakhouse	9.84062500000000
John Courage	Mexican Restaurant	Pizza Place	Seafood Restaurant	Sushi Restaurant	Steakhouse	9.740625

Discussion

- ▶ High caloric food genres were associated with high rates of poor health:
 - ▶ Burger Joints
 - ▶ Fast Food
 - ▶ Pizza Place
- ▶ Many of the same genres were found in areas with lower rates but additional genres that served lower calorie food were also found
 - ▶ Thai food
 - ▶ Sushi
 - ▶ Steakhouse

Conclusion

- ▶ Living in areas many restaurants that focus on food with low caloric values can lead to an overall decrease in rates of poor health
- ▶ The goal of this study was to find correlations between health trends and genres of food. This has been achieved though the Foursquare api and the five hundred city dataset.