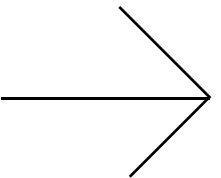




Presented by Heron Ziegel  
Created for Hack for LA

06/15/2025

# Native Land Attribution



# Introduction

Organization Native Land Digital gathered data on historical native lands across the globe and overlaid them onto the map, creating the interactive website <https://native-land.ca/>

Hack for LA used their data to find which native lands overlap with areas in Los Angeles County. My goal was to expand upon this research using data analytics and data visualization.



# Previous Work

The following list of native tribes was generated by volunteer Jude Calvillo: Chumash, Tongva, Kizh, Micqanaqa'n, Fernandeano Tataviam, Acjachemen (Juaneño), Payómkawichum (Luiseño), Yuhaviatam/Maarenga'yam (Serrano), Kitanemuk

Jude also generated a data file containing information about regions contained inside the native land borders, which I edited and used for my analysis.

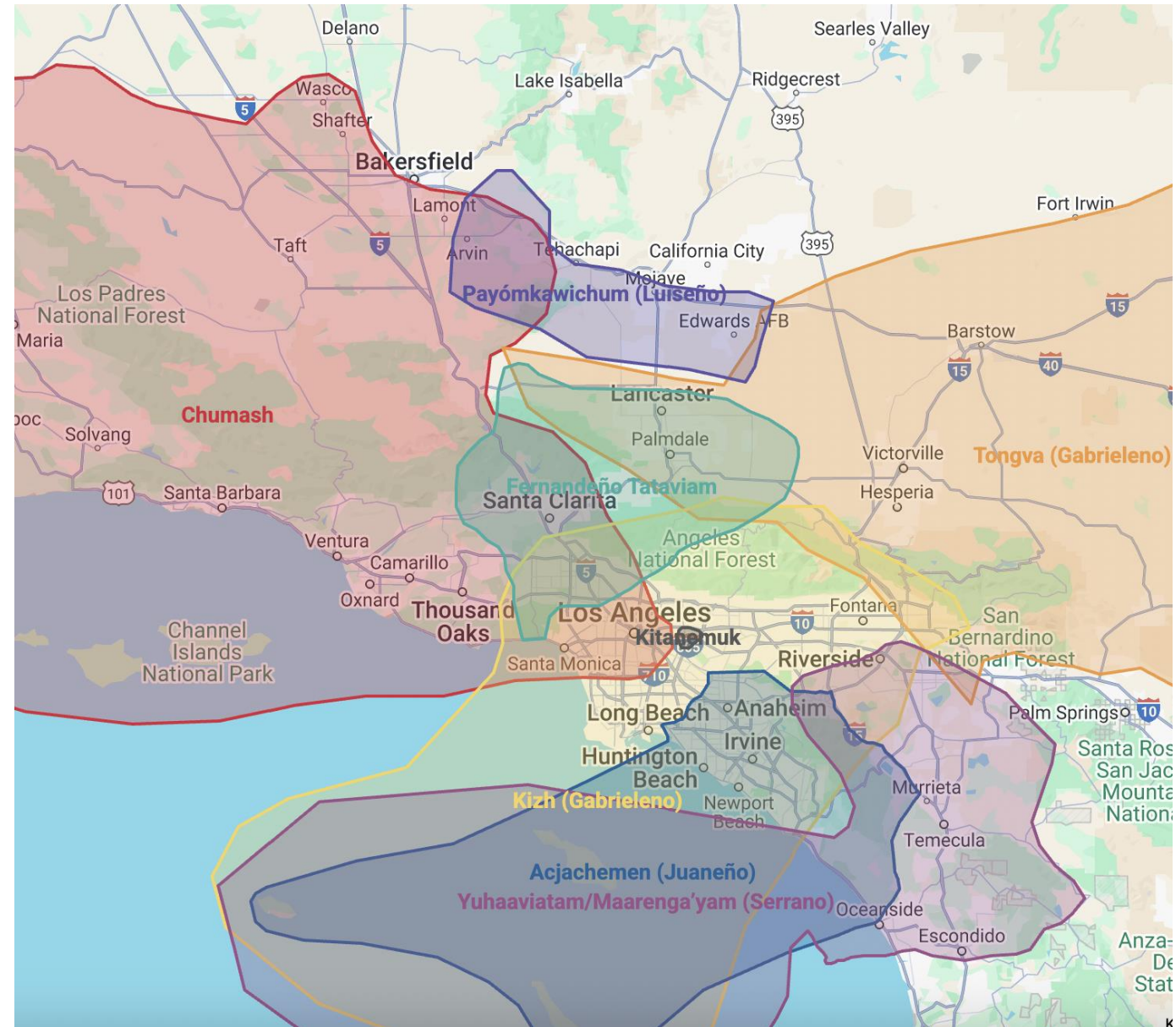
I updated the list for my purposes because Tongva and Kizh are two names for the same tribe and therefore generated redundant data. I also replaced all commas in Jude's CSV file with semicolons to allow it to be loaded correctly as a CSV.

I used the following JSON file from the Native Land Digital project for my Google Maps API visualization:

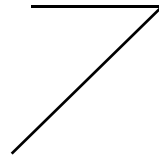
<https://api-docs.native-land.ca/>

# Google Map API Visualization

Using the Python library gmplot, I overlaid the native lands across the modern map of Los Angeles County to create an interactive HTML file.



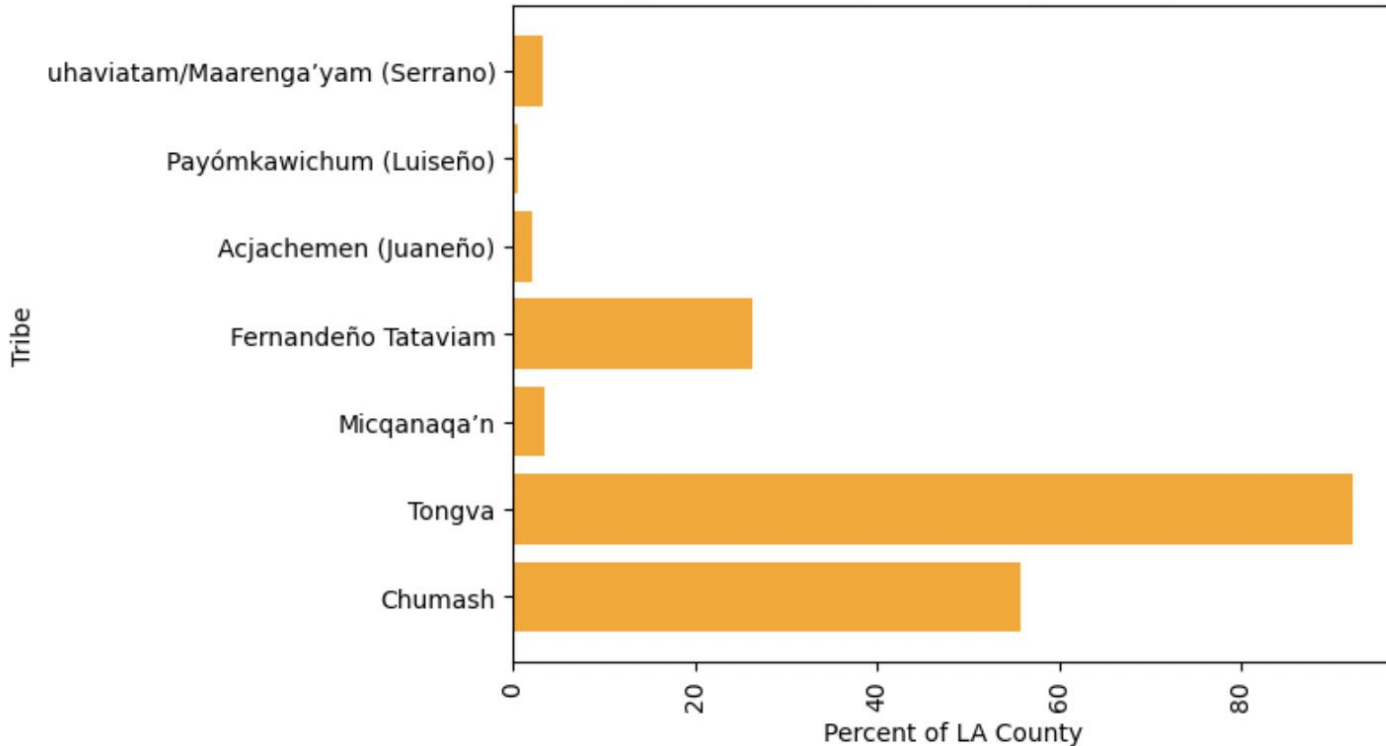




# Data Exploration Results

# Amount of LA Historically Native Land by Tribe

Percent of Regions in Los Angeles County Formerly Controlled by Tribe



## Areas contained within each native land:

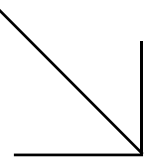
**Total** Chumash: 272  
Total Tongva: 449  
Total Micqanaqa'n: 17  
Total Fernandeño Tataviam: 128  
Total Acjachemen (Juaneño): 10  
Total Payómkawichum (Luiseño): 3  
Total uhaviatam/Maarenga'yam (Serrano): 16

## Percentage of each:

Percentage Chumash: 55.85  
Percentage Tongva: 92.20  
Percentage Micqanaqa'n: 3.49  
Percentage Fernandeño Tataviam: 26.28  
Percentage Acjachemen (Juaneño): 2.05  
Percentage Payómkawichum (Luiseño): 0.62  
Percentage uhaviatam/Maarenga'yam (Serrano): 3.29

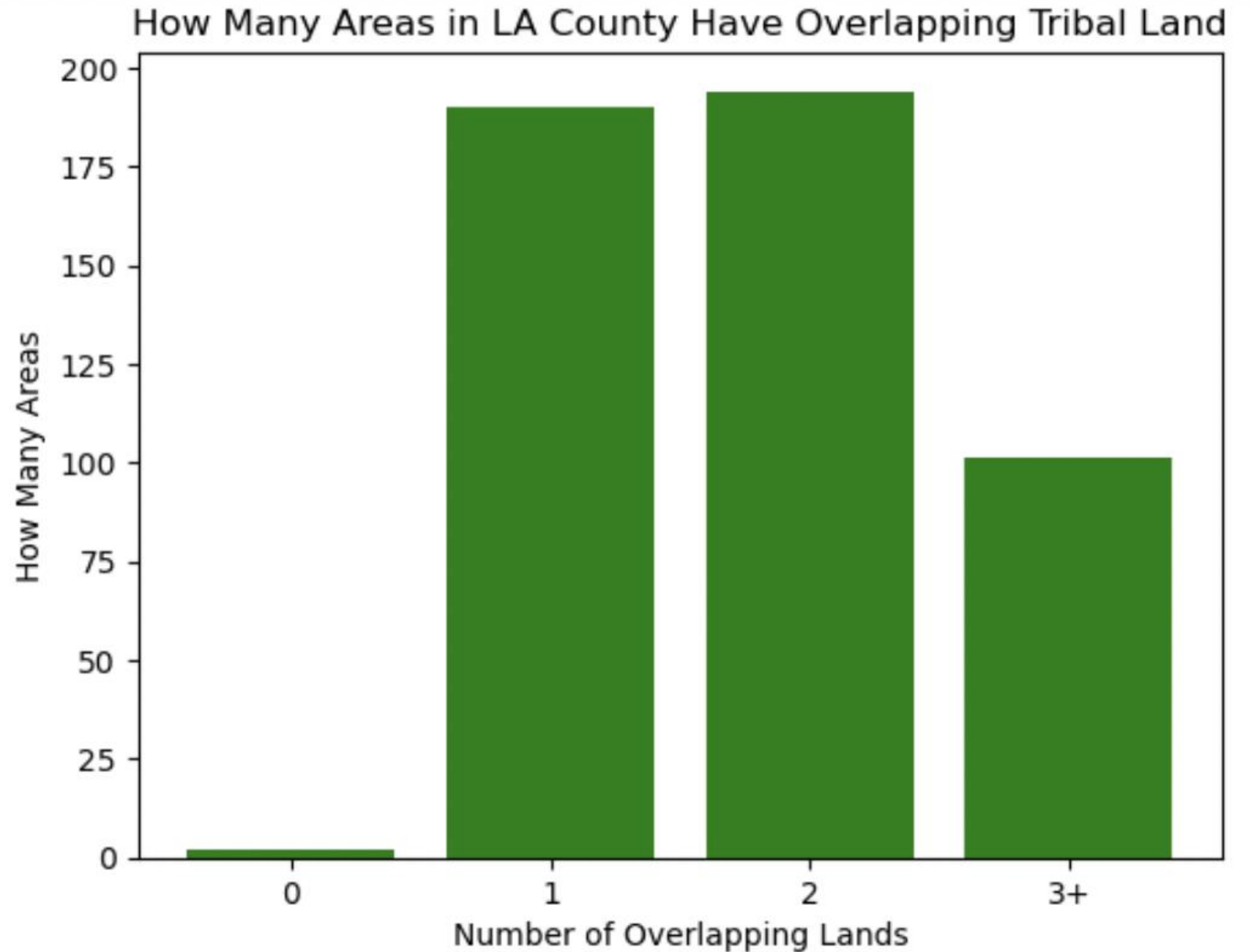
# 99.59%

of the areas in Los Angeles County  
were once native land



60% of land was controlled by 2 or more tribes.

21% by 3 or more tribes.





4 or more tribes controlled these areas:

Airport Worldway

Topanga

Canoga Park

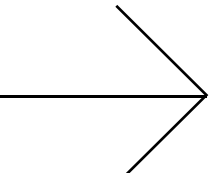
West Hills

Chatsworth

Woodland Hills

Calabasas

Lancaster



# Ideas for Future Research

- Instead of using individual areas such as towns and airports, calculate geometric land area controlled by each tribe to increase accuracy
- Analyze time data such as the amount of time each tribe lived on the land compared to the amount of time non-native settlers have been in Los Angeles County
- Look into how many members of each tribe still live in or near the area