

Data Science

Transforming Data into Knowledge and Vision
Understanding the Power and Beauty of Data

Introduction to Tableau

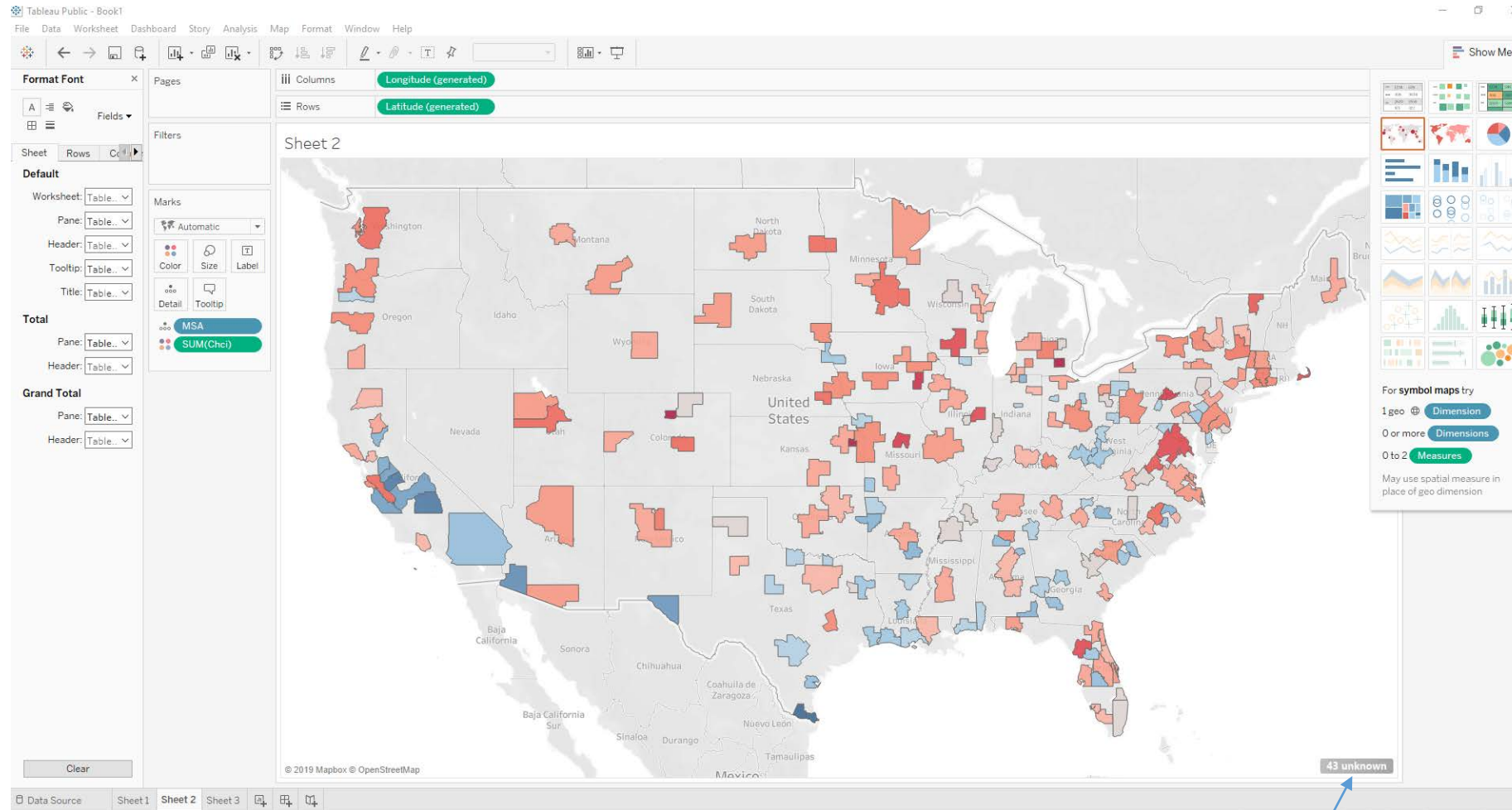
William Yu, PhD

Economist

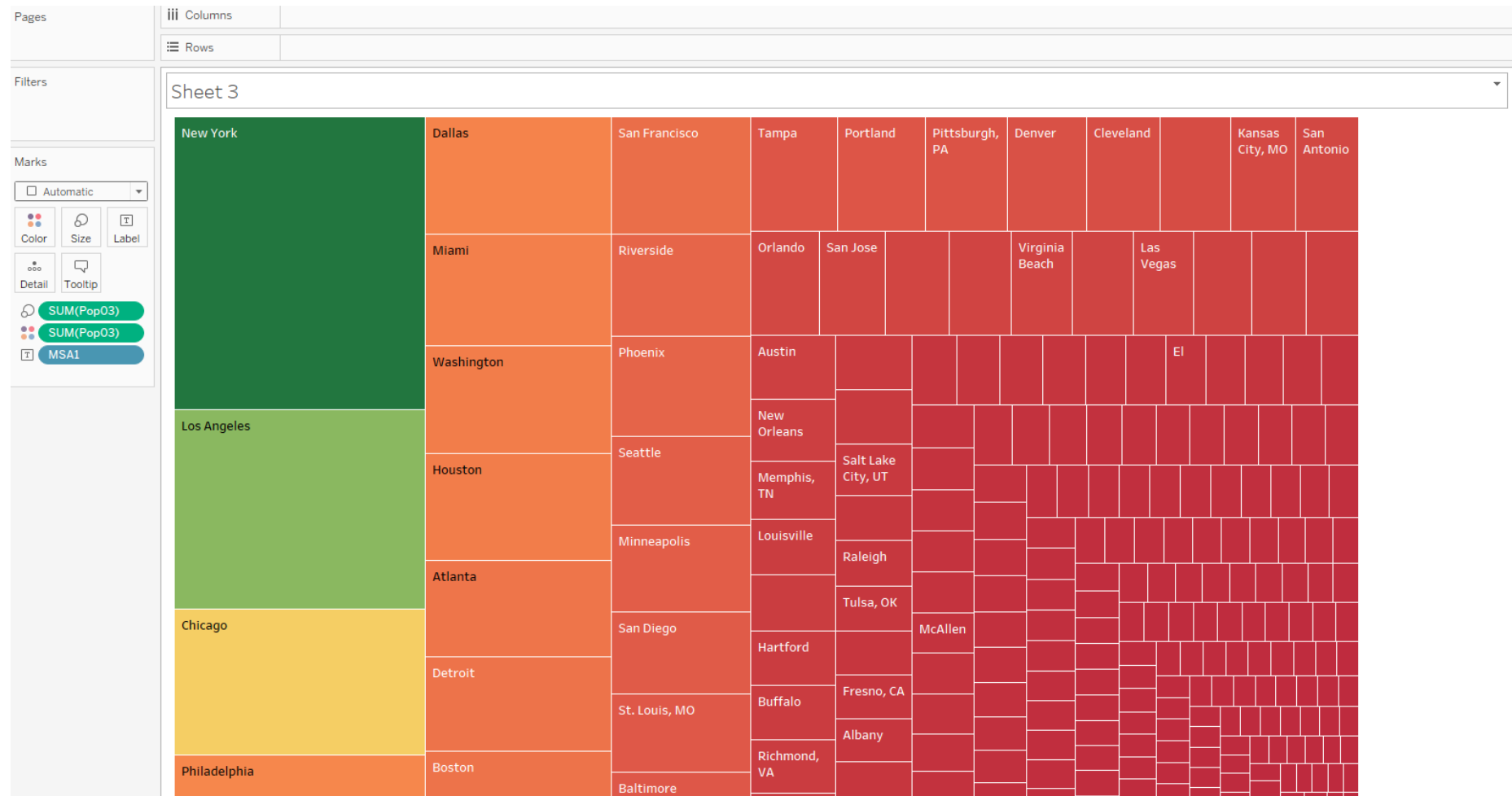
UCLA Anderson Forecast

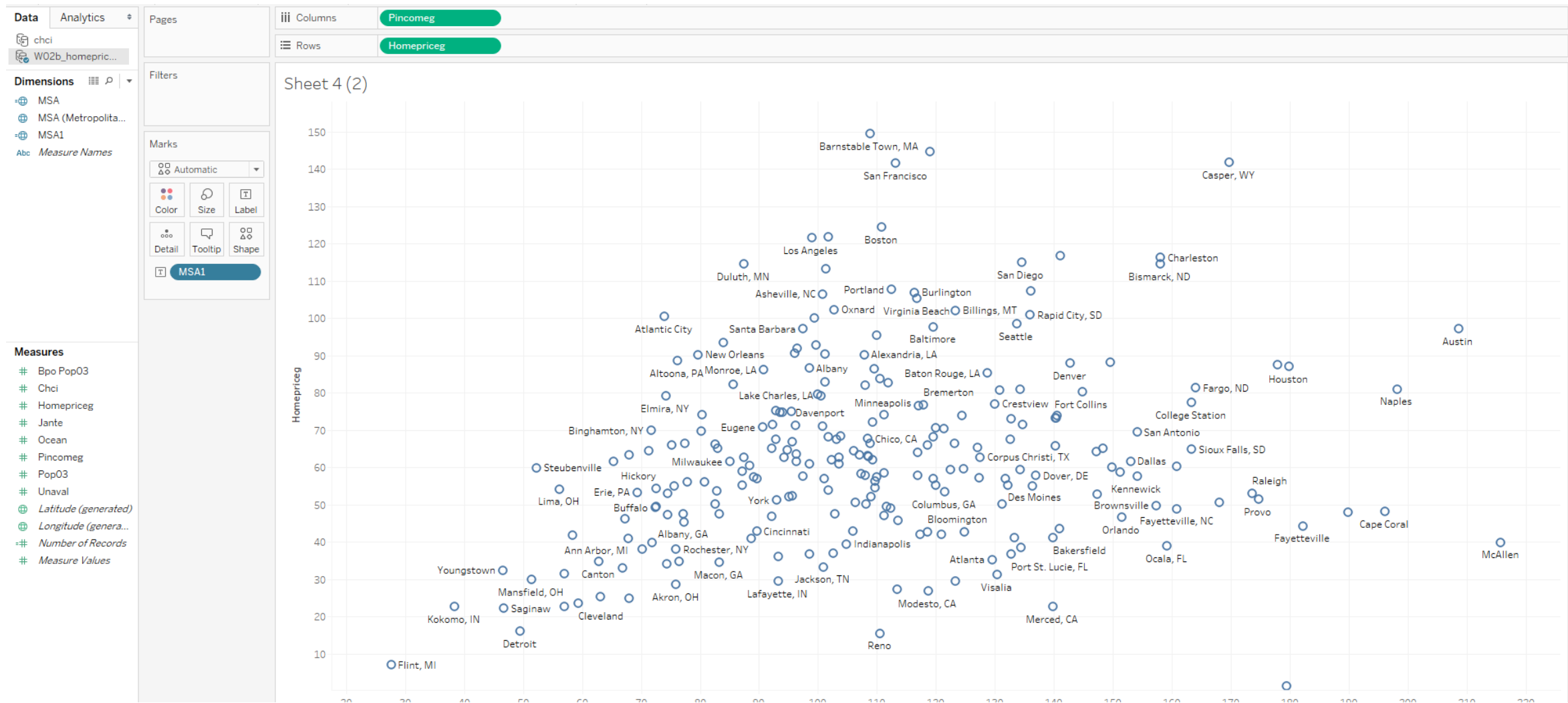
- Data → New Data Source → Select file → ***Drag Sheets Here***
- Recognize the class of the data automatically
- Custom Split → Sheet1, 2, 3, etc.





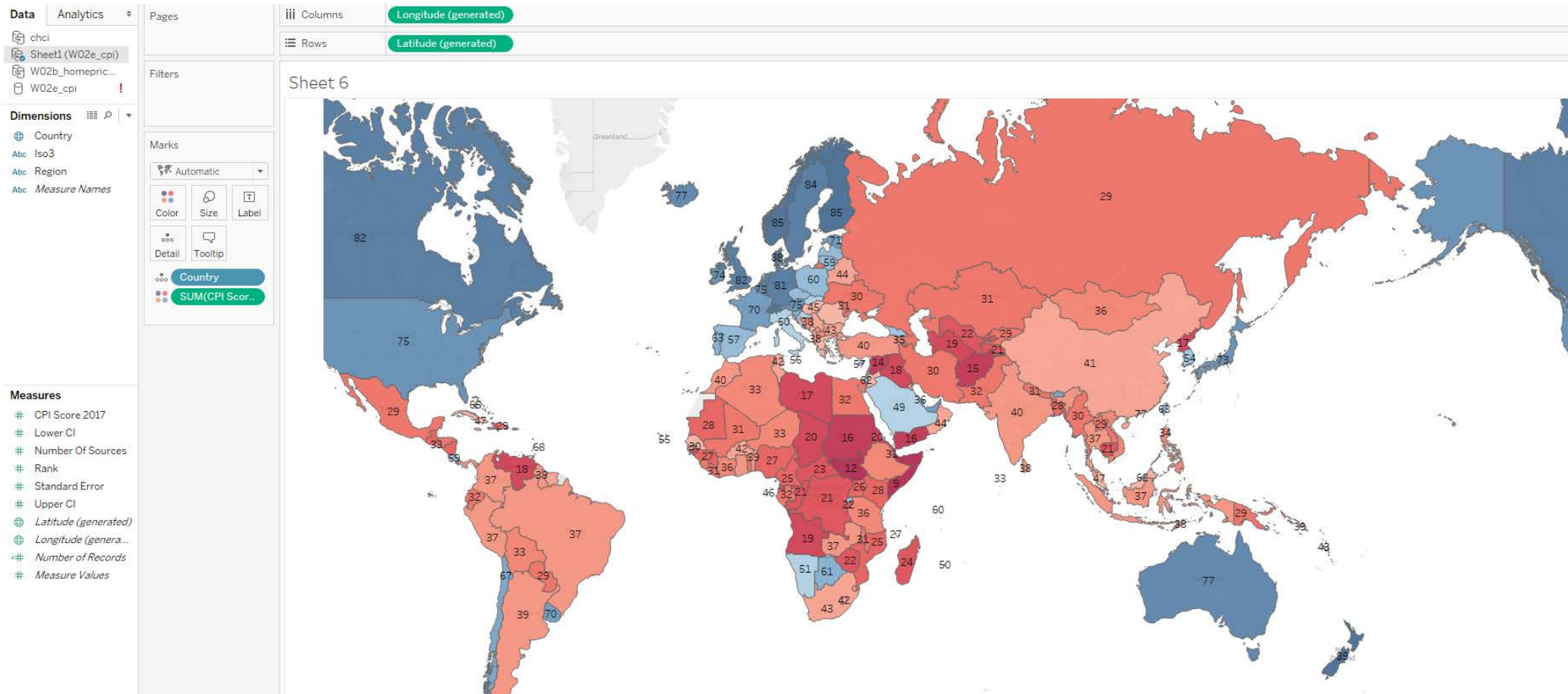
Click here to figure out the unknown location



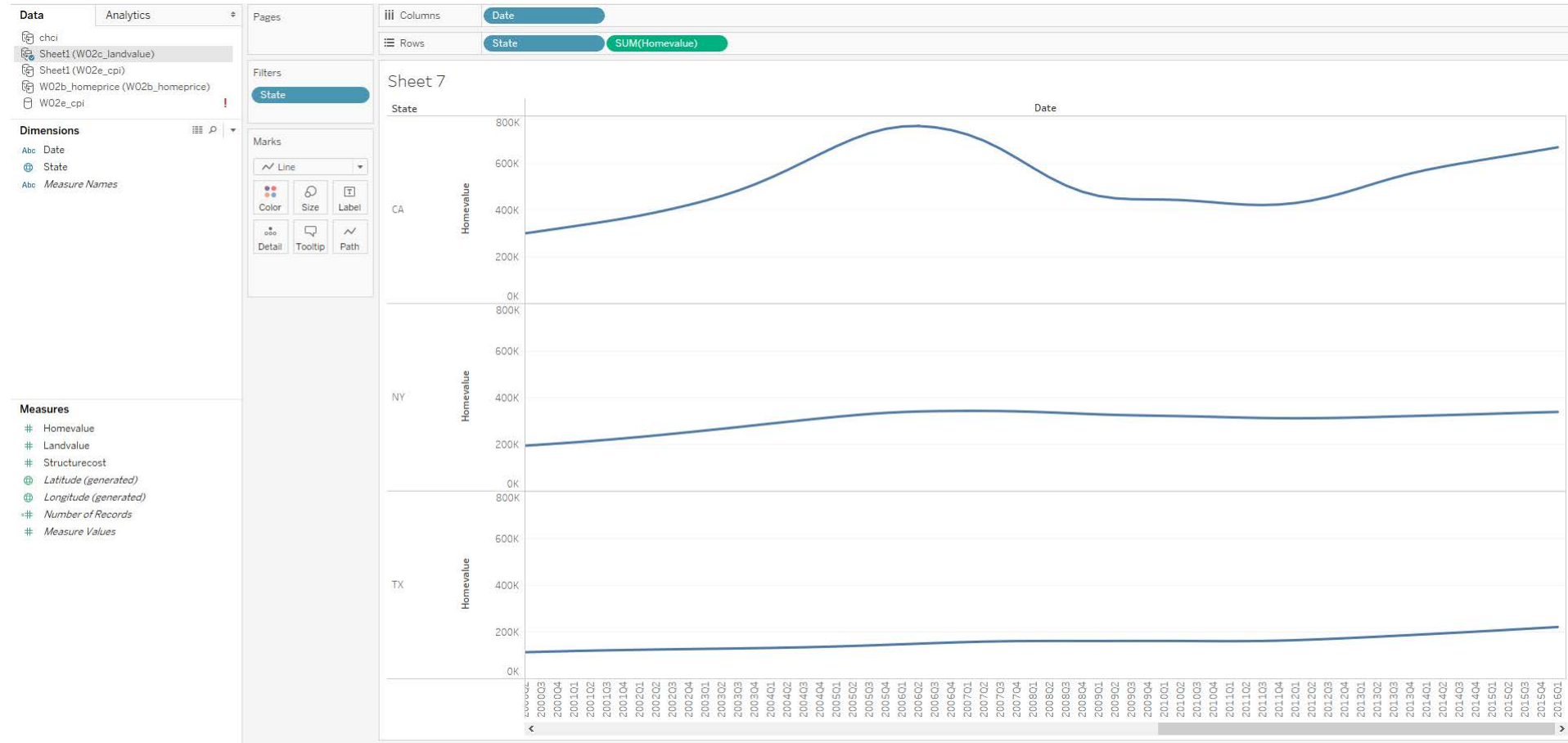


Data: W02e_cpi

Check “Use Data Interpreters” to get a direct importation of variable names



Data: W02c_landvalue



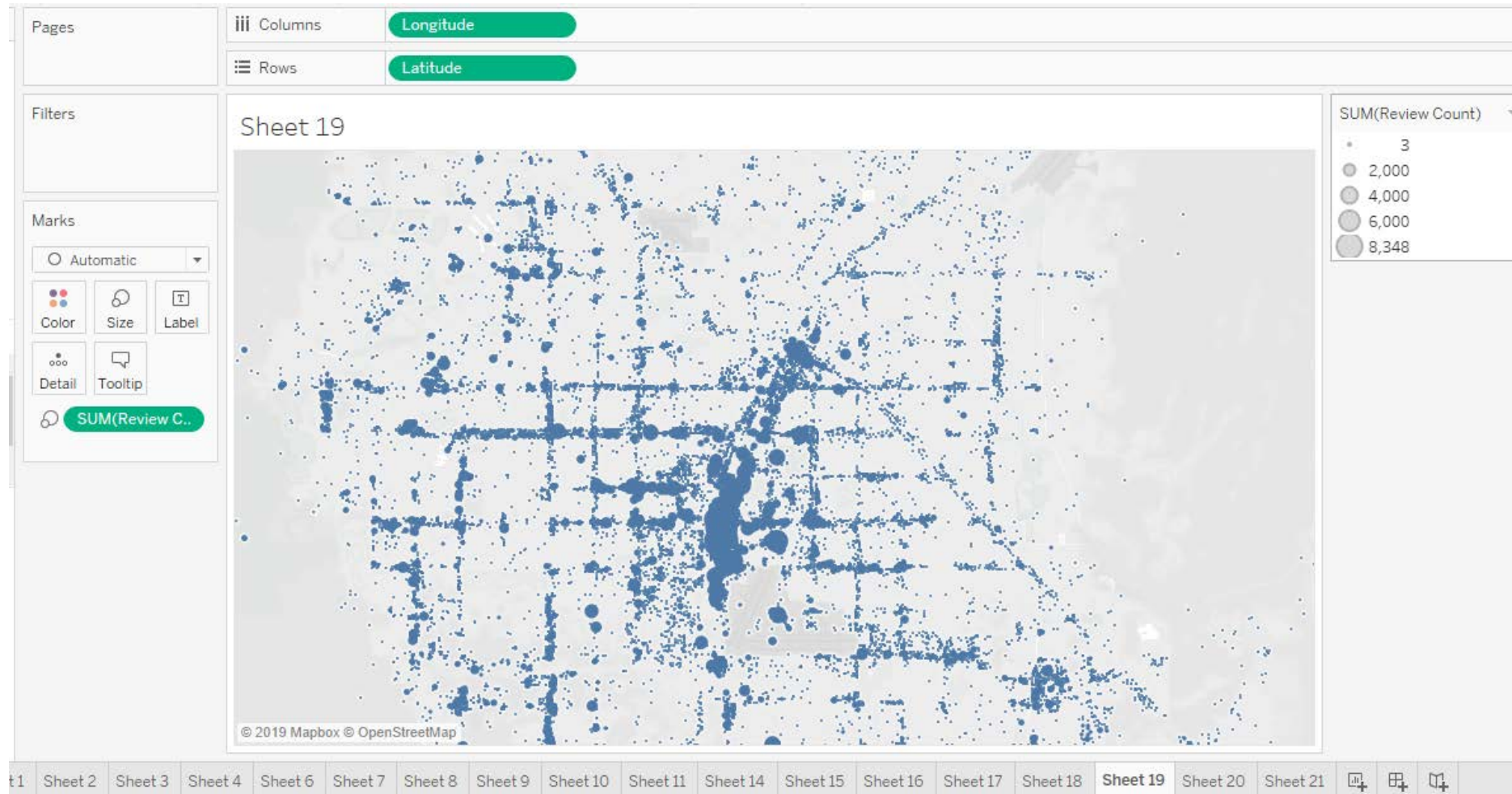
What is JSON?

- JSON stands for **JavaScript Object Notation**.
- JSON is a lightweight format for storing and transporting data.
- JSON is often used when data is sent from a server to a web page.
- The JSON format is syntactically identical to the code for creating JavaScript objects.
- Data is in name/value pairs.
- Data is separated by commas.
- Curly braces hold objects.
- Square brackets hold arrays.

```
{  
  "employees": [  
    {"firstName": "John", "lastName": "Doe"},  
    {"firstName": "Anna", "lastName": "Smith"},  
    {"firstName": "Peter", "lastName": "Jones"}  
  ]  
}
```


Data: W02f_yelp.json

Move the longitude data directly into Columns
and latitude data directly to Rows



Data: chci.xlsx

Convert id/fips variable manually to a geographic variable

Right click a numeric variable (such as fips) → geographic role → county

