

Geospatial Data in Tableau

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Notice

■ Author

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Table of Contents

- **Geospatial Data in Tableau - Overview**
- **Geocoding and editing locations**
- **Spatial Files**
- **More on Polygon Maps**
- **Background Images**

Geospatial Data in Tableau - Overview

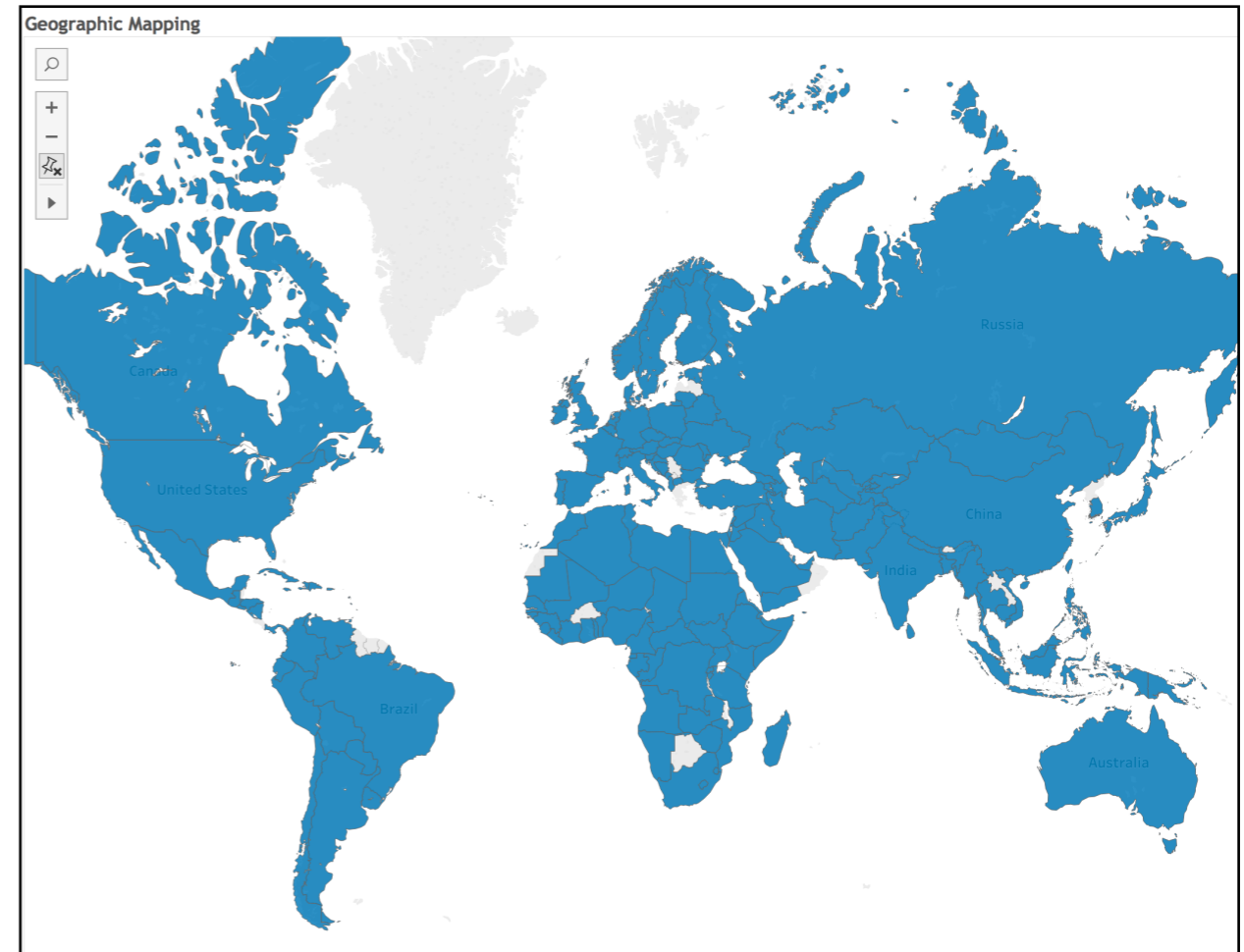
Types of geographic (thematic) maps

■ Point Maps



Central Point or just Points

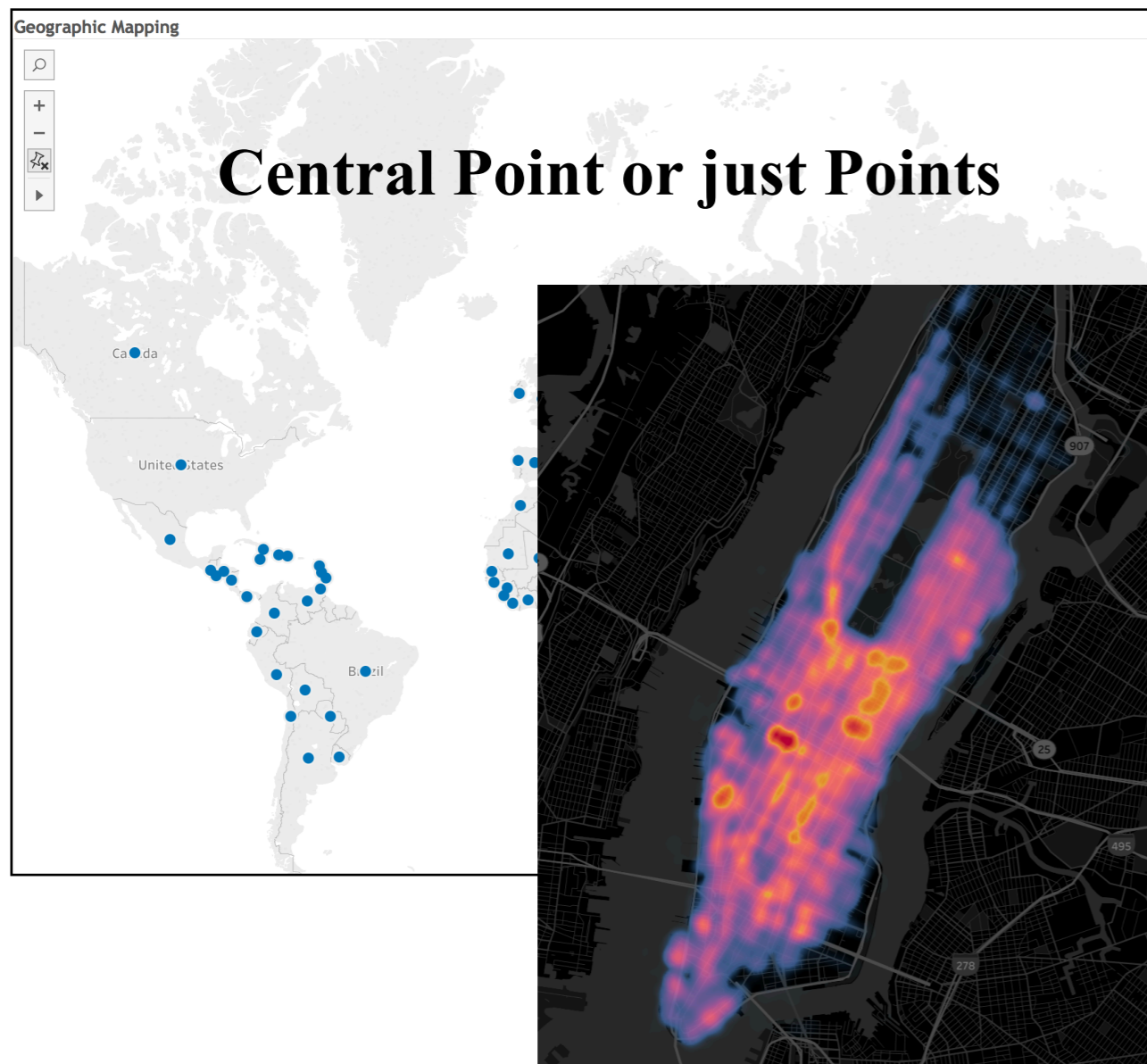
■ Filled Maps



Boundary region

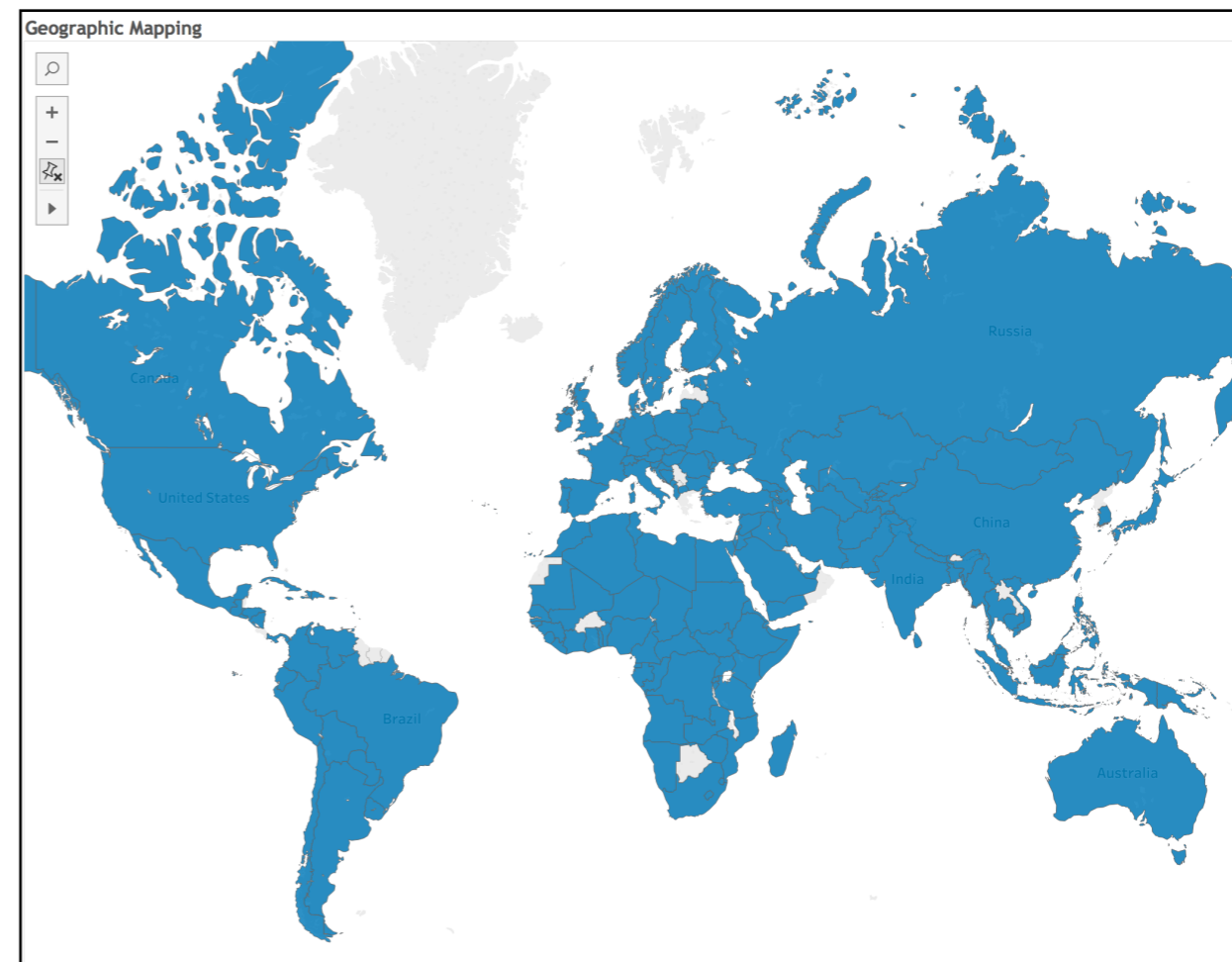
Types of geographic (thematic) maps

■ Point Maps



Density Maps

■ Filled Maps



Boundary region

Point Maps

The screenshot displays the Tableau interface for a point map. The main view is a world map with numerous blue dots representing data points. The interface is configured as follows:

- Data Source:** Orders (Global Superstor...)
- Columns Shelf:** Longitude (generated)
- Rows Shelf:** Latitude (generated)
- Dimensions:** Country, State, City
- Measures:** Discount, Profit, Quantity, Sales, Shipping Cost, Latitude (generated), Longitude (generated), Number of Records, Measure Values
- Mark Type:** Automatic
- Color:** Country
- Tooltip:** Country: United States

- Dimensions**
- Category
 - Customer ID
 - Customer Name
 - Location
 - Country
 - State
 - City
 - Market
 - Order Date
 - Order ID
 - Order Priority
 - Product ID
 - Product Name
 - Region
 - Row ID
 - Segment
 - Ship Date
 - Ship Mode
 - Sub-Category
 - Measure Names

- Measures**
- Discount
 - Profit
 - Quantity
 - Sales
 - Shipping Cost
 - Latitude (generated)
 - Longitude (generated)
 - Number of Records
 - Measure Values

Filters

Marks

Automatic

Color Size Label

Detail Tooltip

Country

Geographic Mapping



Dimensions

- Category
- Customer ID
- Customer Name
- Location
 - Country
 - State
 - City
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Color Size Label

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Geographic Mapping



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Filters

Marks

Automatic

Color Size Label

Detail Tooltip

Country



Geographic Mapping



Measures

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- Shipping Cost
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- Measure Values

Dimensions

- Category
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- Customer Name
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 - Country**
 - State
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Filters

Marks

Automatic

Color Size Label

Detail Tooltip

Country

Geographic Mapping



Measures

- Discount
- Profit
- Quantity
- Sales
- Shipping Cost
- Latitude (generated)
- Longitude (generated)
- Number of Records
- Measure Values

Orders (Global Superstor...

Rows

Dimensions

- Category
- Customer ID
- Customer Name
- Location
 - Country
 - State
 - City
- Market
- Order Date
- Order ID
- Order Priority
- Product ID
- Product Name
- Region
- Row ID
- Segment
- Ship Date
- Ship Mode
- Sub-Category
- Measure Names

Filters

Marks

Automatic

Color Size Label

Detail Tooltip

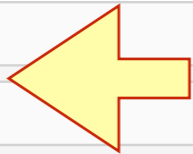
Country

Geographic Mapping



Measures

- Discount
- Profit
- Quantity
- Sales
- Shipping Cost
- Latitude (generated)
- Longitude (generated)
- Number of Records
- Measure Values



Orders (Global Superstor...

Dimensions

- Category
- Customer ID
- Customer Name
- Location
 - Country
 - State
 - City
- Market
- Order Date
- Order ID
- Order Priority
- Product ID
- Product Name
- Region
- Row ID
- Segment
- Ship Date
- Ship Mode
- Sub-Category
- Measure Names

Filters

Marks

Automatic

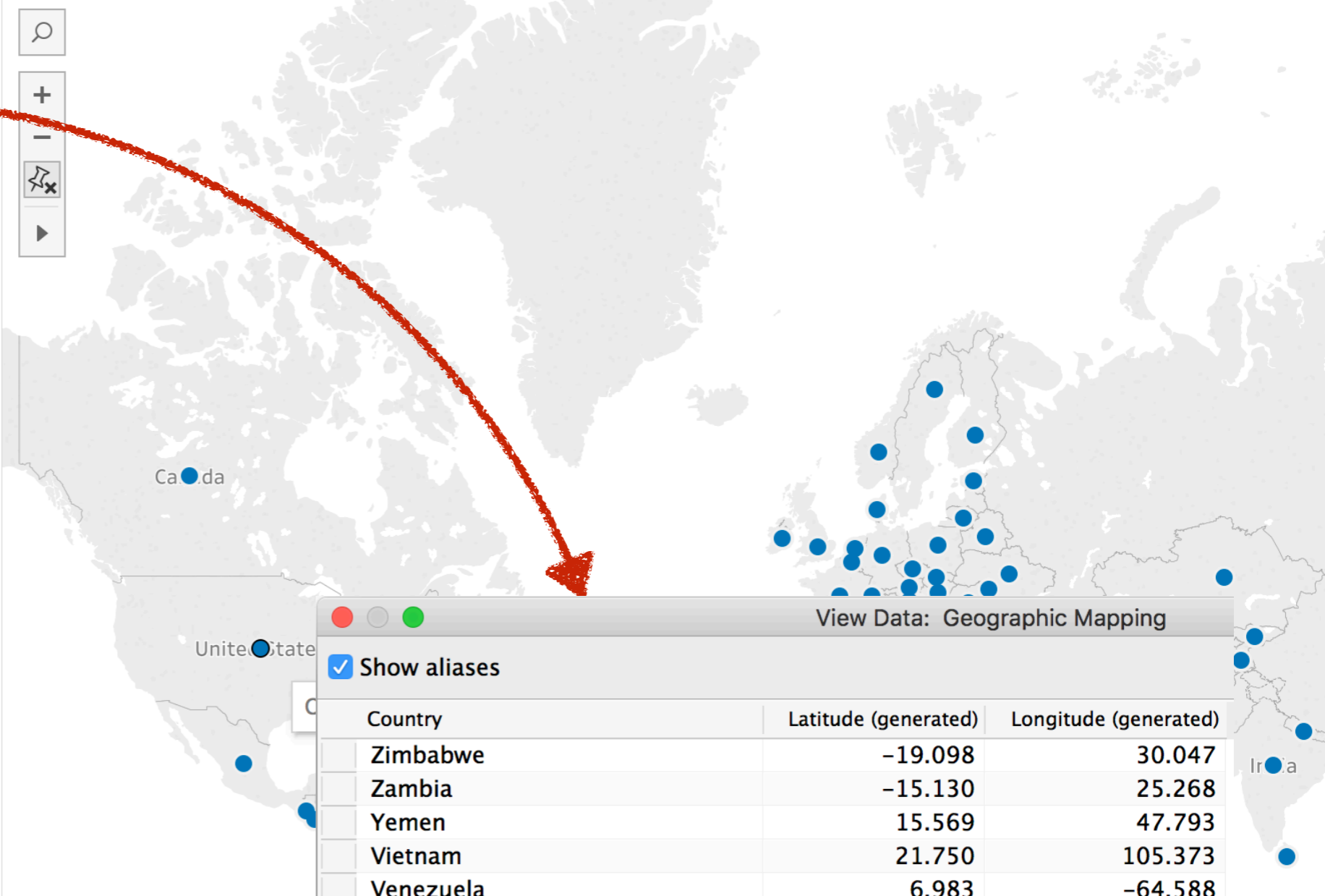
Color Size Label

Detail Tooltip

Country



Geographic Mapping



View Data: Geographic Mapping

Show aliases

Country	Latitude (generated)	Longitude (generated)
Zimbabwe	-19.098	30.047
Zambia	-15.130	25.268
Yemen	15.569	47.793
Vietnam	21.750	105.373
Venezuela	6.983	-64.588
Uzbekistan	41.757	63.958
Uruguay	-32.948	-56.249
United States	40.079	-98.816
United Kingdom	52.289	-1.259
United Arab Emirates	23.930	53.903
Ukraine	49.364	32.132
Uganda	1.939	32.742
Turkmenistan	39.584	59.597
Turkey	39.144	34.188
Tunisia	35.594	9.421
Trinidad and Tobago	10.448	-61.257
Toao	7.700	1.106

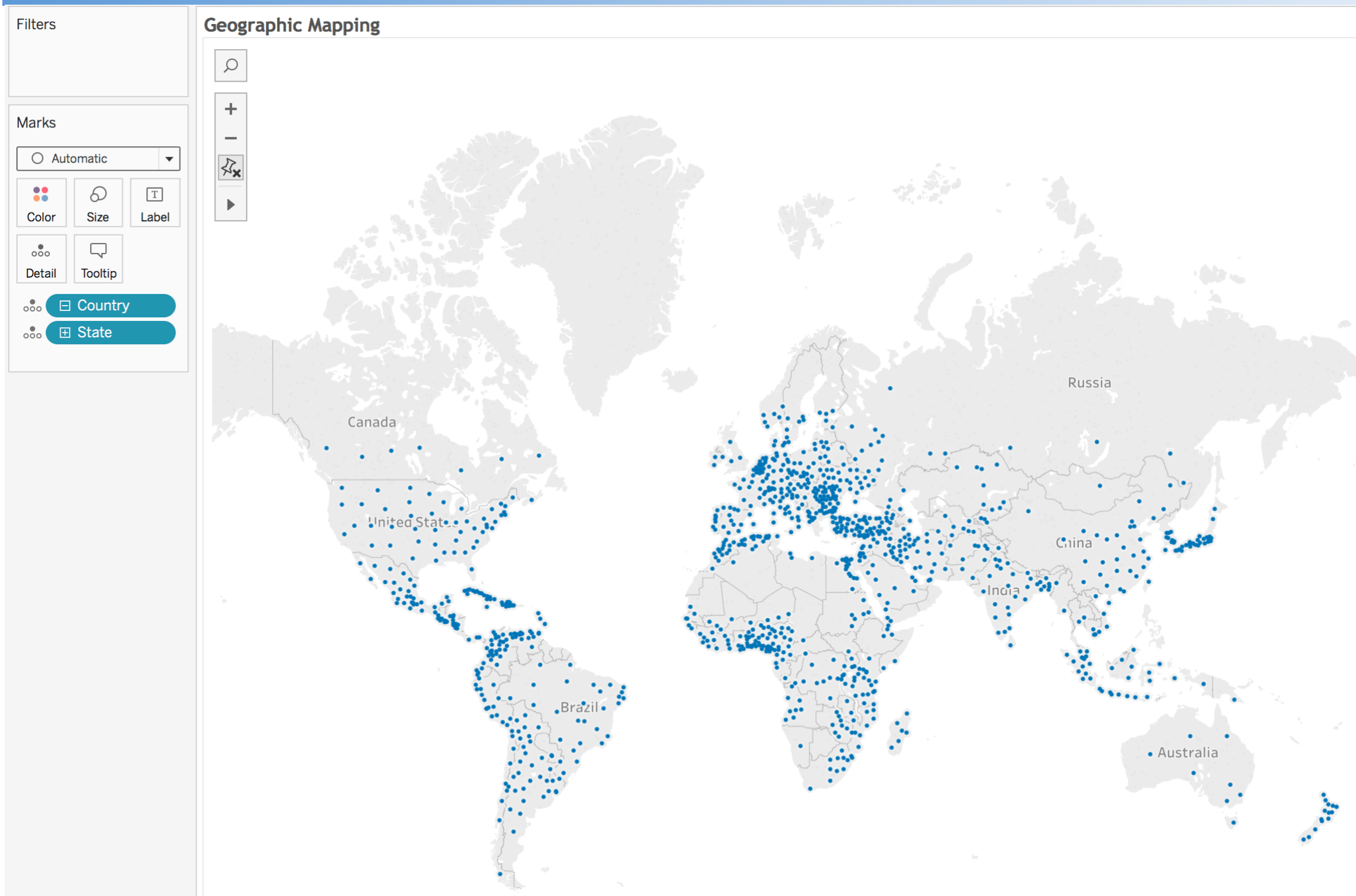
Measures

- Discount
- Profit
- Quantity
- Sales
- Shipping Cost
- Latitude (generated)
- Longitude (generated)
- Number of Records
- Measure Values

Geocoding

- **US Area codes; US Congressional Districts**
- **US-based CBSA (core-based statistical area)**
- **US-based MSA (Metropolitan Statistical Area)**
- **Cities worldwide**
- **NUTS Europe**
- **Worldwide Country/Regions**
- **Counties**
- **Worldwide States / Provinces**
- **Postal Codes**
- **Lat; Long**

Geocoding - Point Maps



Geocoding - Poi

Filters

Marks

○ Automatic

Color

Size

Label

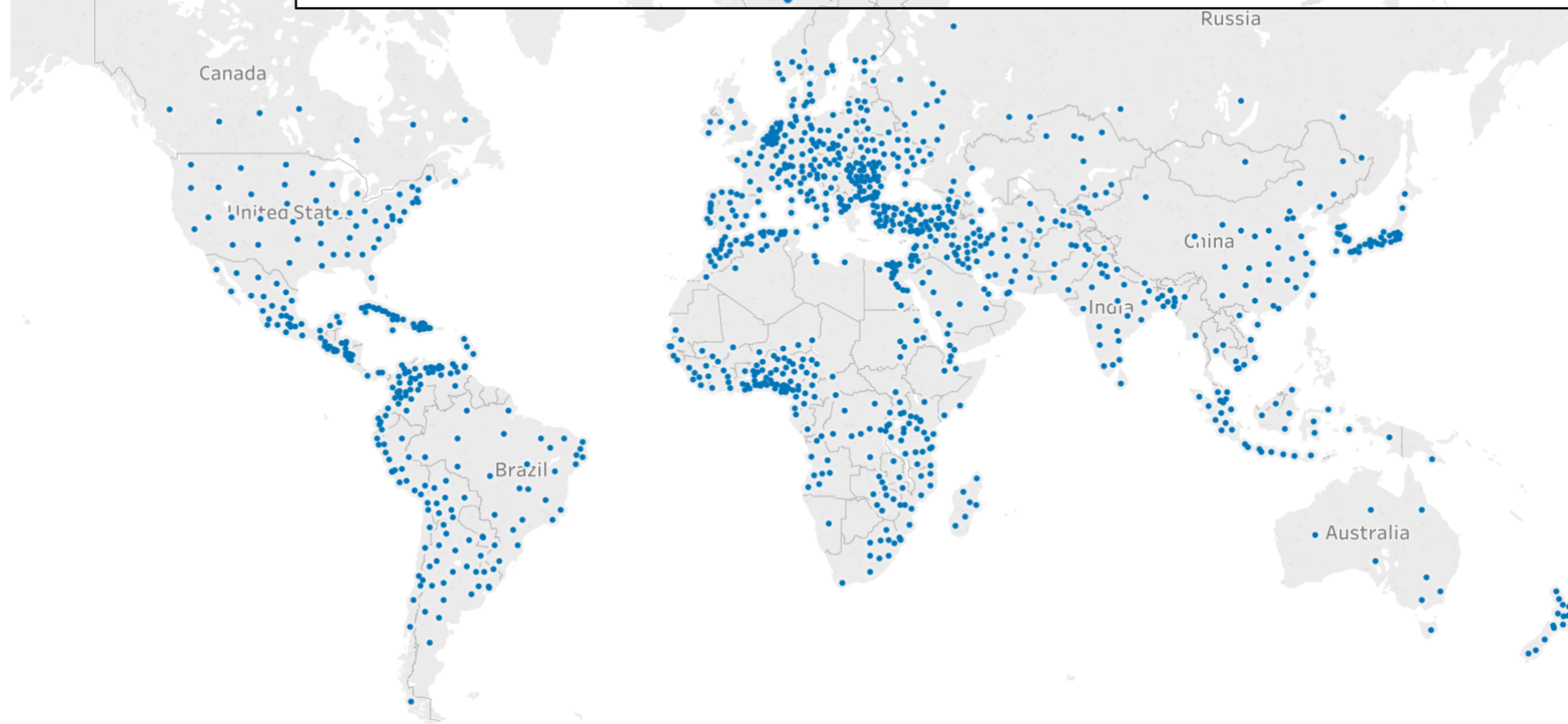
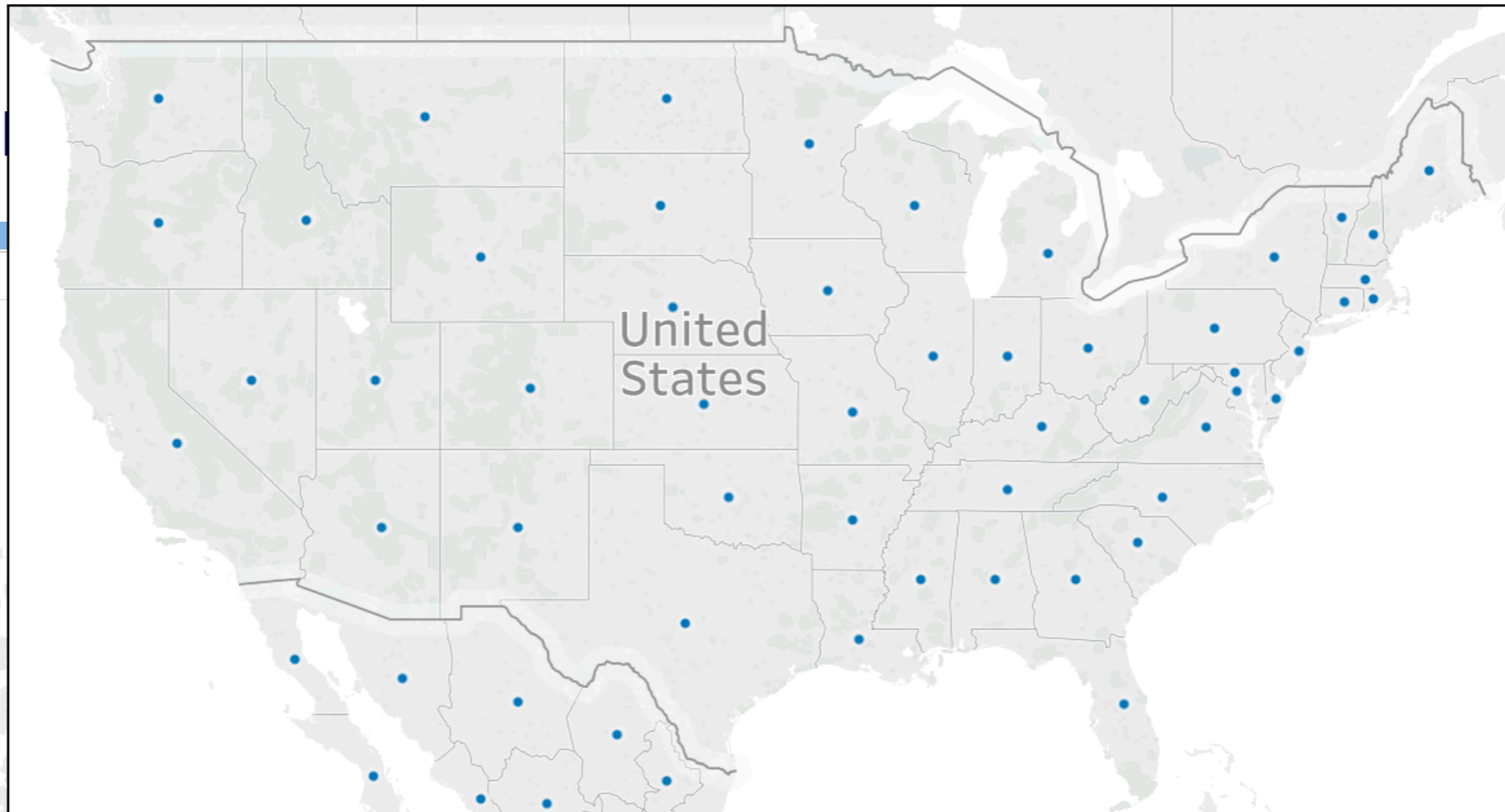
Detail

Tooltip

Country

State

Geographic Mapping



Geocoding - Poi

Filters

Marks

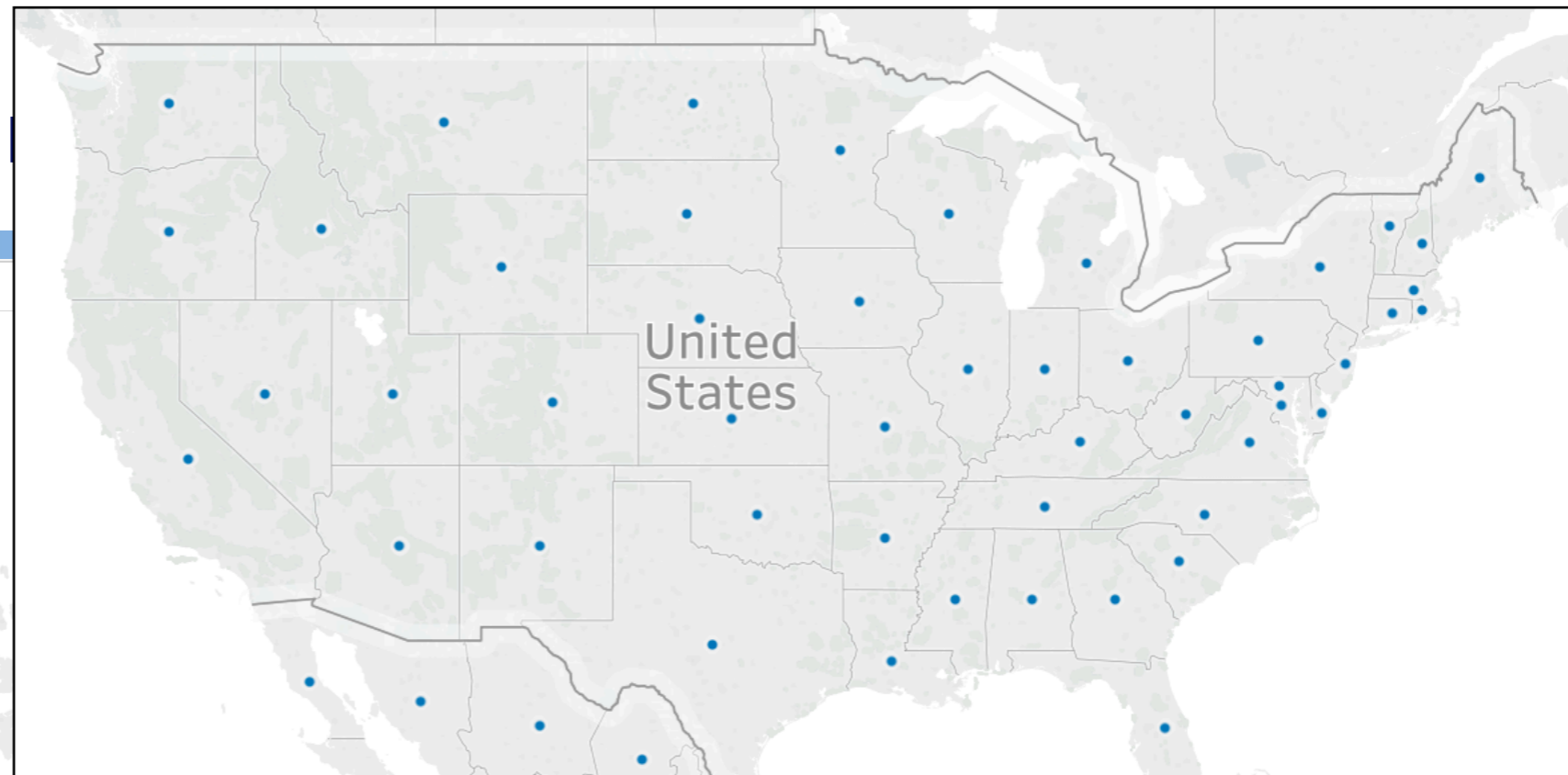
○ Automatic

Color Size Label

Detail Tooltip

Country State

Geographic Mapping



Country	State	Latitude (generated)	Longitude (generated)
United States	Washington	47.500	-120.500
United States	Virginia	37.770	-78.240
United States	Vermont	44.158	-72.768
United States	Utah	39.250	-111.750
United States	Texas	31.250	-99.250
United States	Tennessee	35.750	-86.250
United States	South Dakota	44.500	-100.250
United States	South Carolina	34.000	-81.000
United States	Rhode Island	41.750	-71.490
United States	Pennsylvania	40.860	-77.900
United States	Oregon	44.000	-120.500
United States	Oklahoma	35.500	-97.500
United States	Ohio	40.250	-83.000
United States	North Dakota	47.500	-100.000
United States	North Carolina	35.500	-80.000
United States	New York	43.000	-75.490
United States	New Mexico	34.500	-106.000

Geocoding - Poi

Filters

Marks

○ Automatic

Color Size Label

Detail Tooltip

Country

State

Geographic Mapping

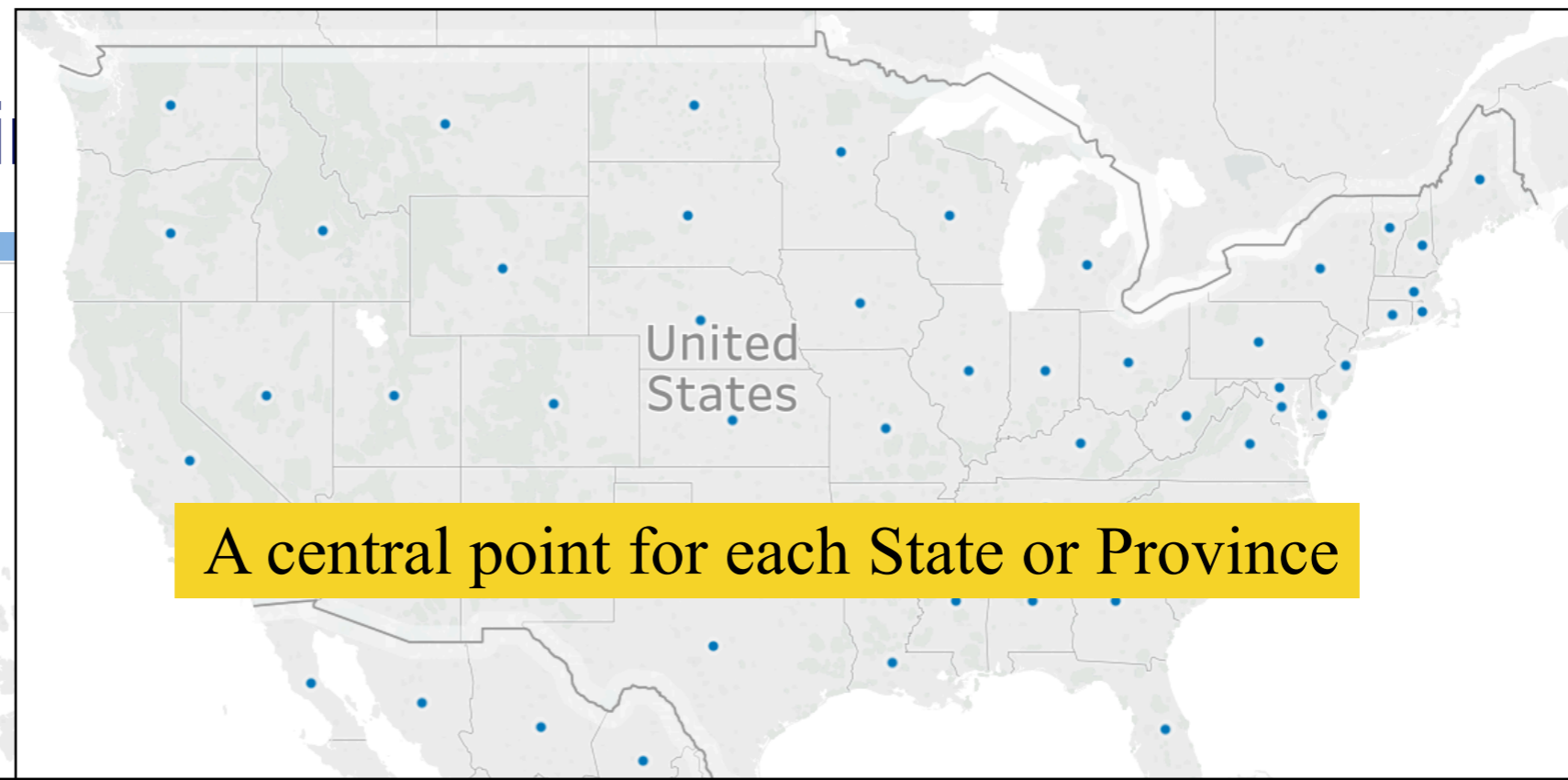
○

+

-

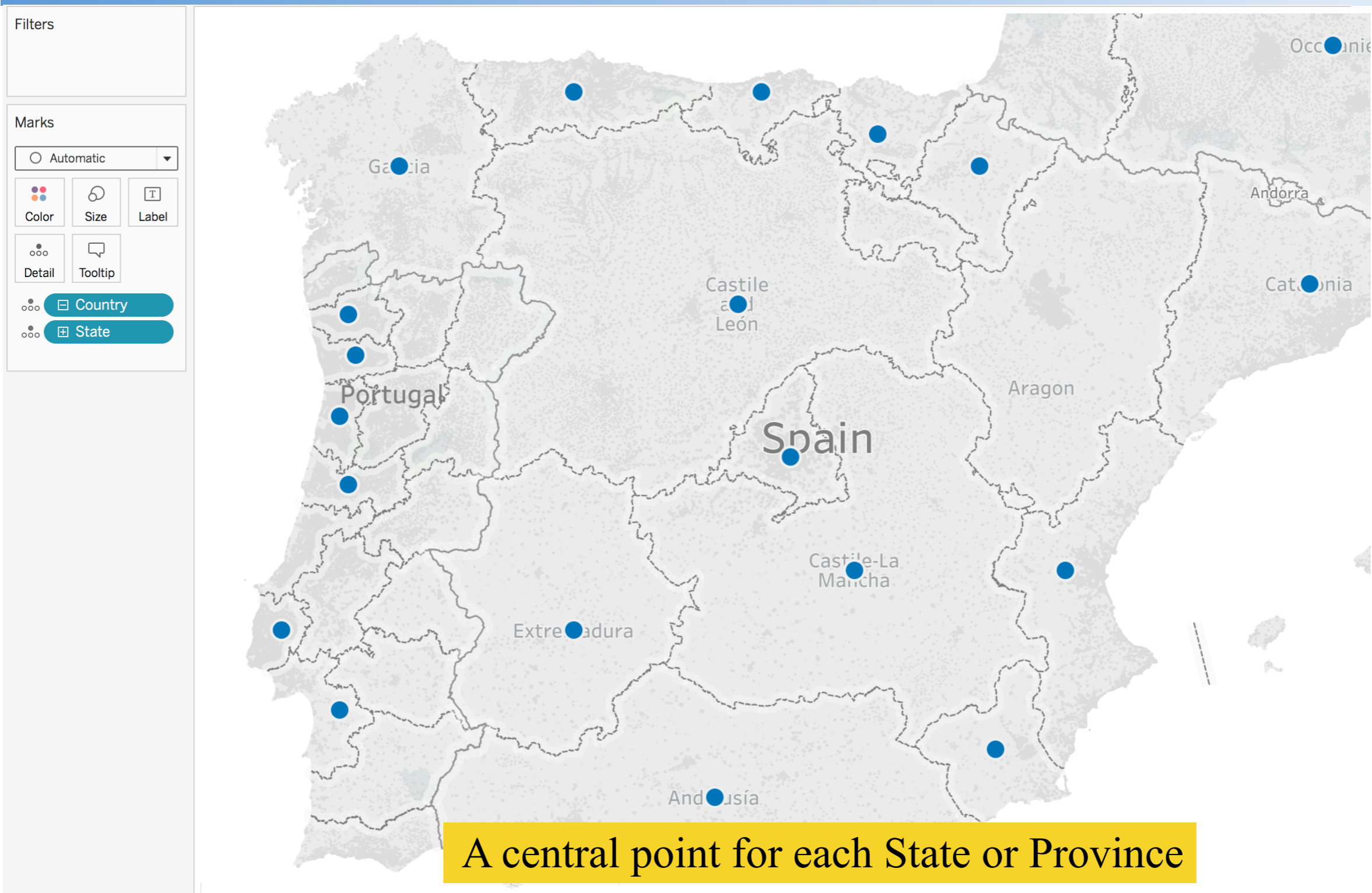
✖

▶

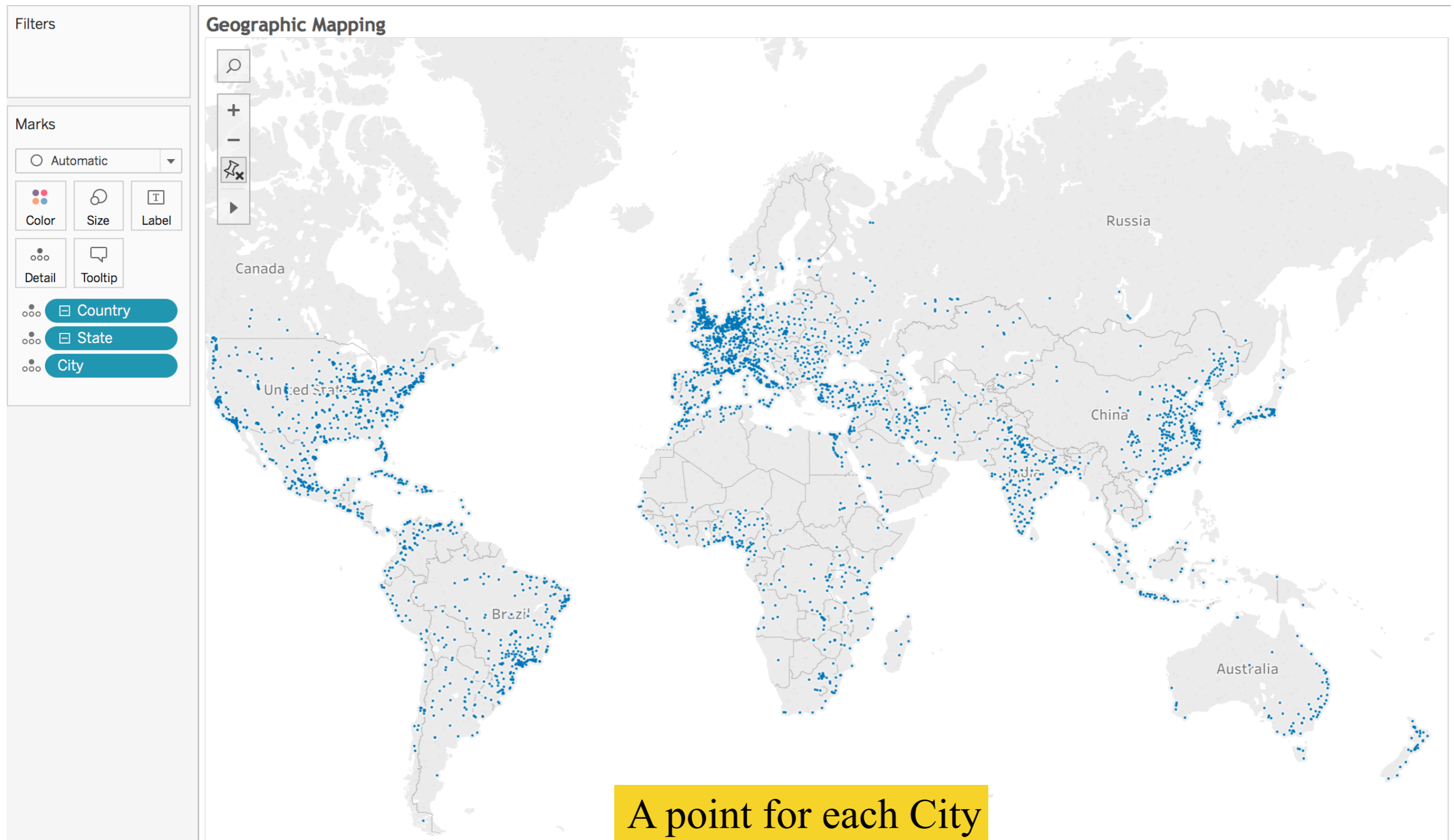


Country	State	Latitude (generated)	Longitude (generated)
United States	Washington	47.500	-120.500
United States	Virginia	37.770	-78.240
United States	Vermont	44.158	-72.768
United States	Utah	39.250	-111.750
United States	Texas	31.250	-99.250
United States	Tennessee	35.750	-86.250
United States	South Dakota	44.500	-100.250
United States	South Carolina	34.000	-81.000
United States	Rhode Island	41.750	-71.490
United States	Pennsylvania	40.860	-77.900
United States	Oregon	44.000	-120.500
United States	Oklahoma	35.500	-97.500
United States	Ohio	40.250	-83.000
United States	North Dakota	47.500	-100.000
United States	North Carolina	35.500	-80.000
United States	New York	43.000	-75.490
United States	New Mexico	34.500	-106.000

Geocoding - Point Maps

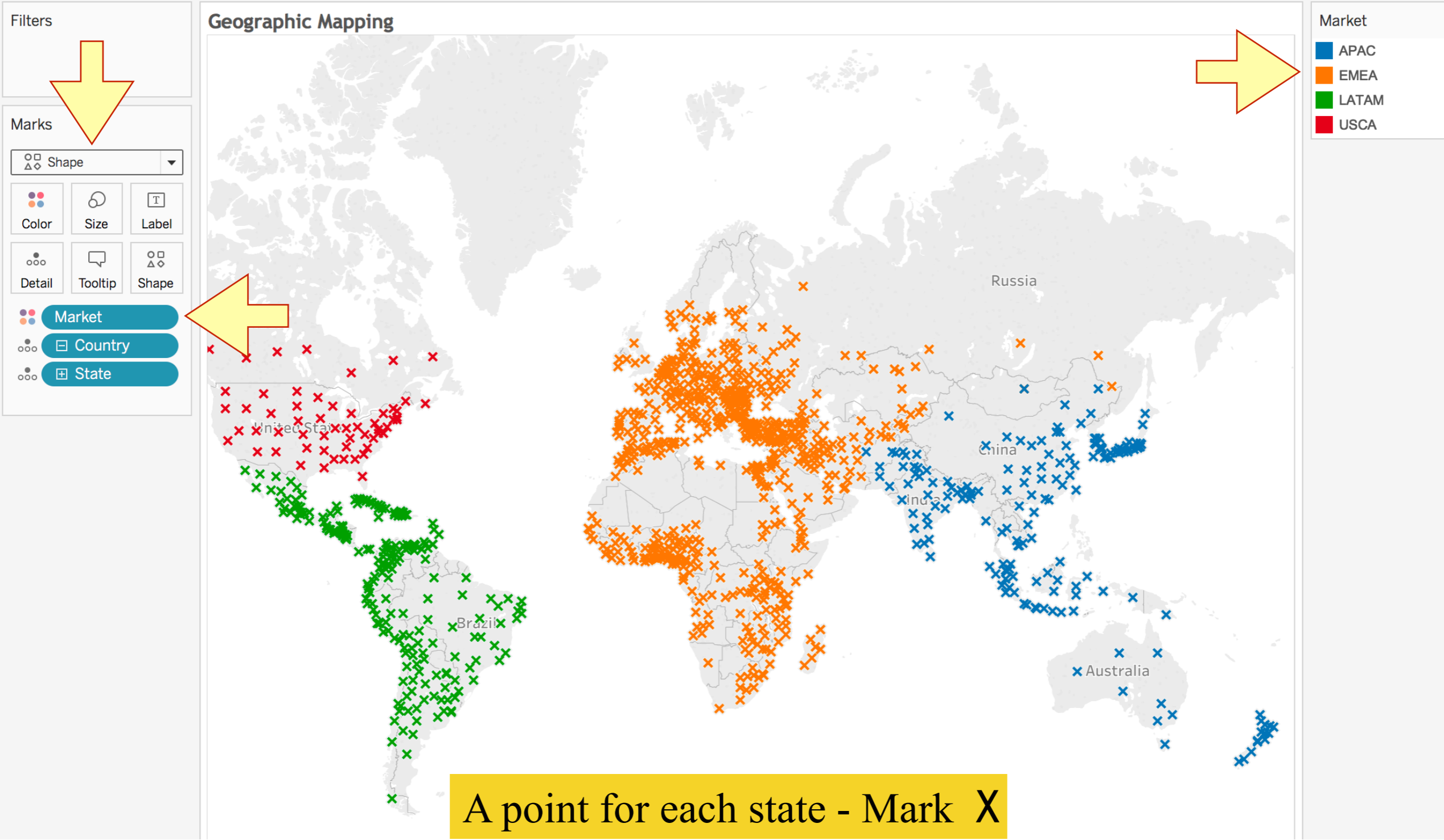


Geocoding - Point Maps

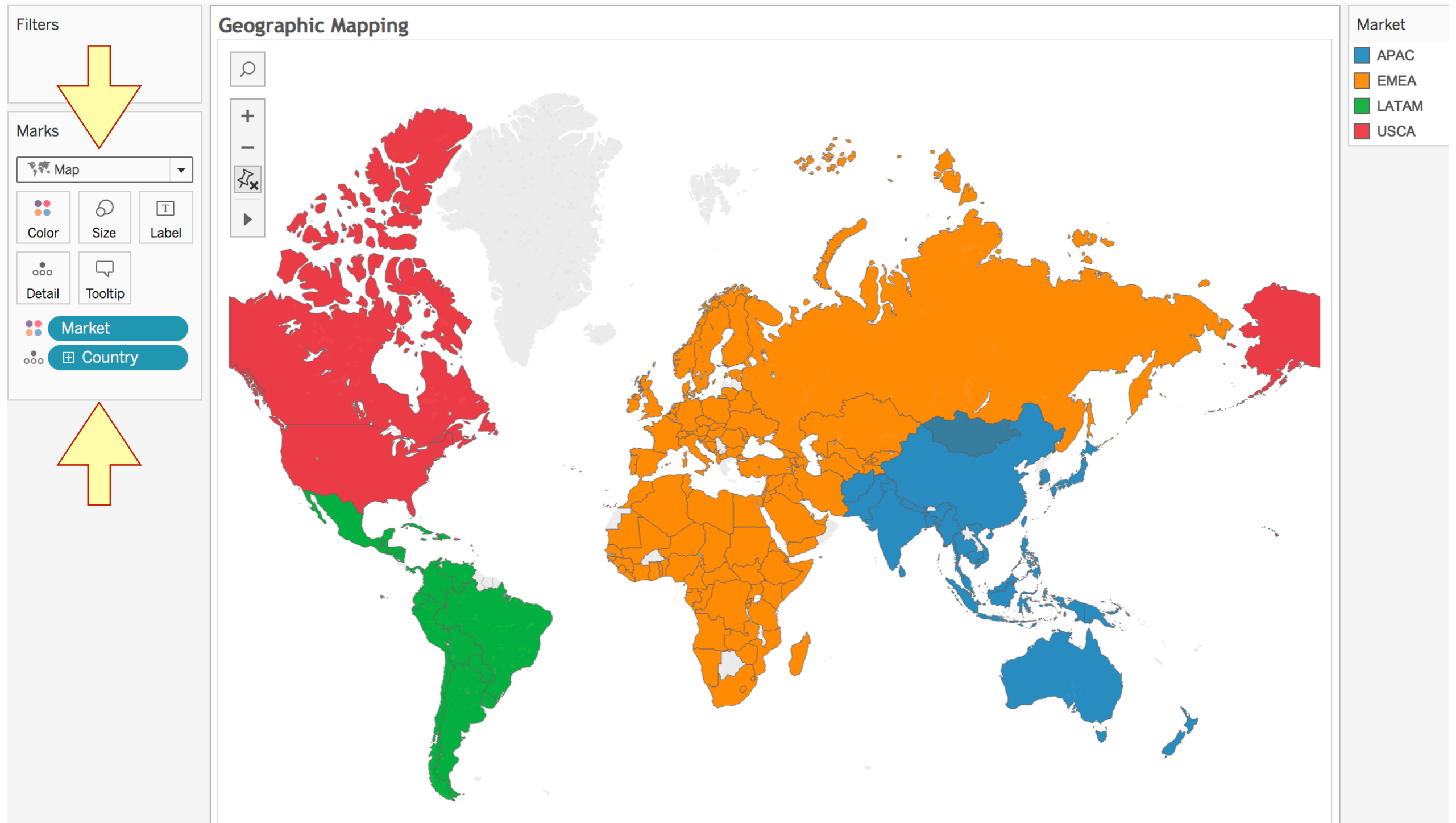


A point for each City

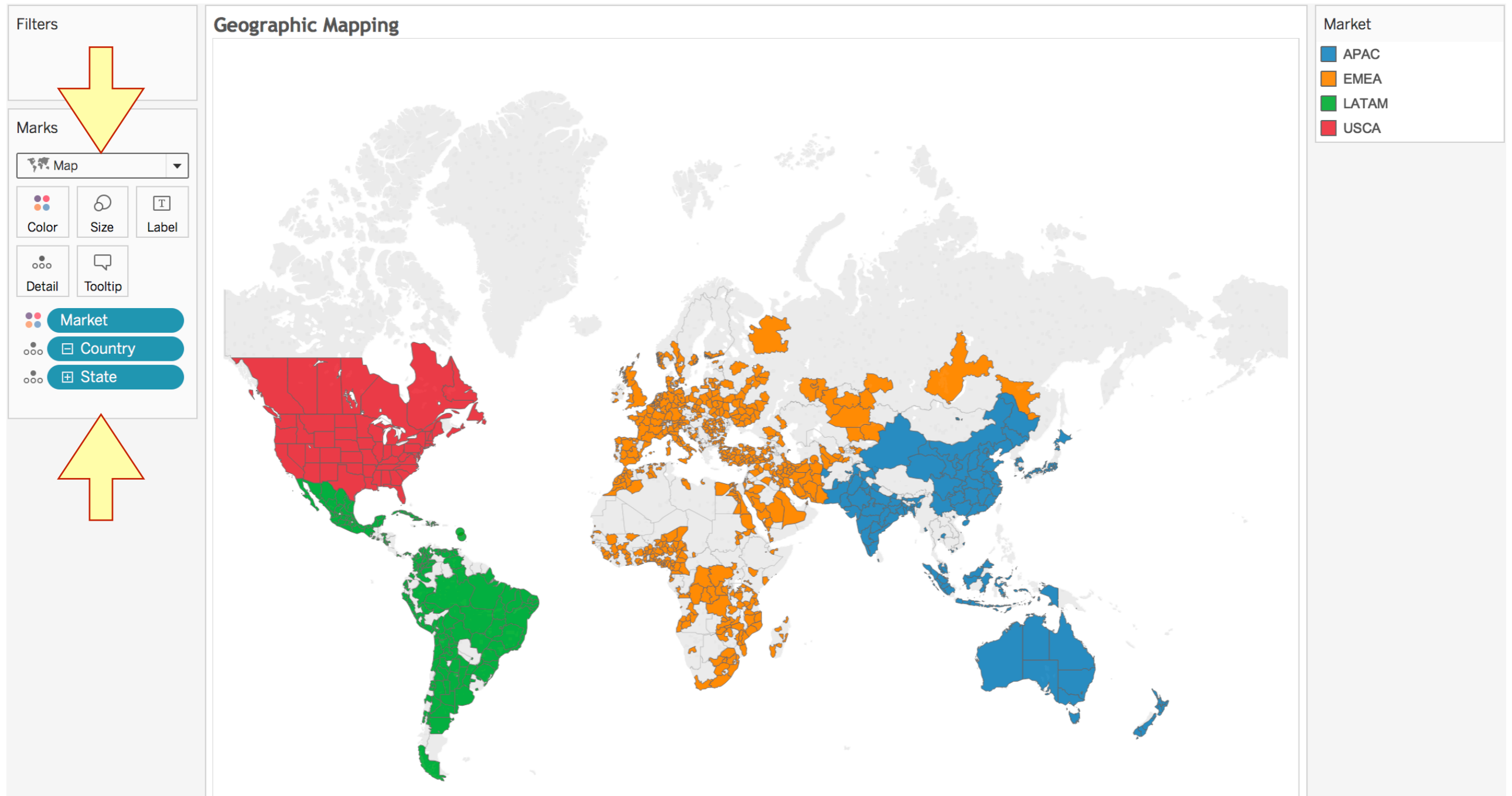
Geocoding - Point Maps



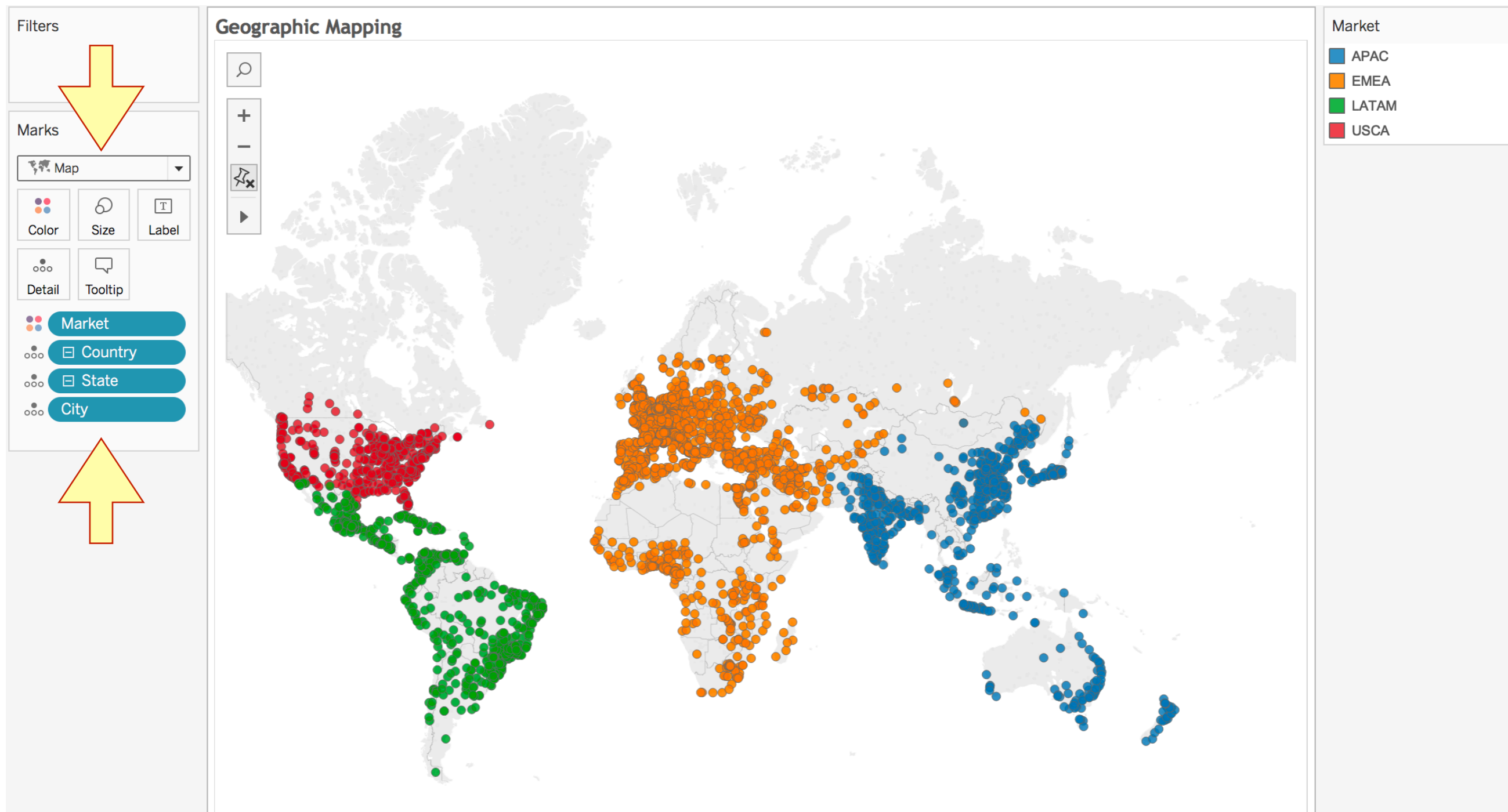
Geocoding - Filled Maps



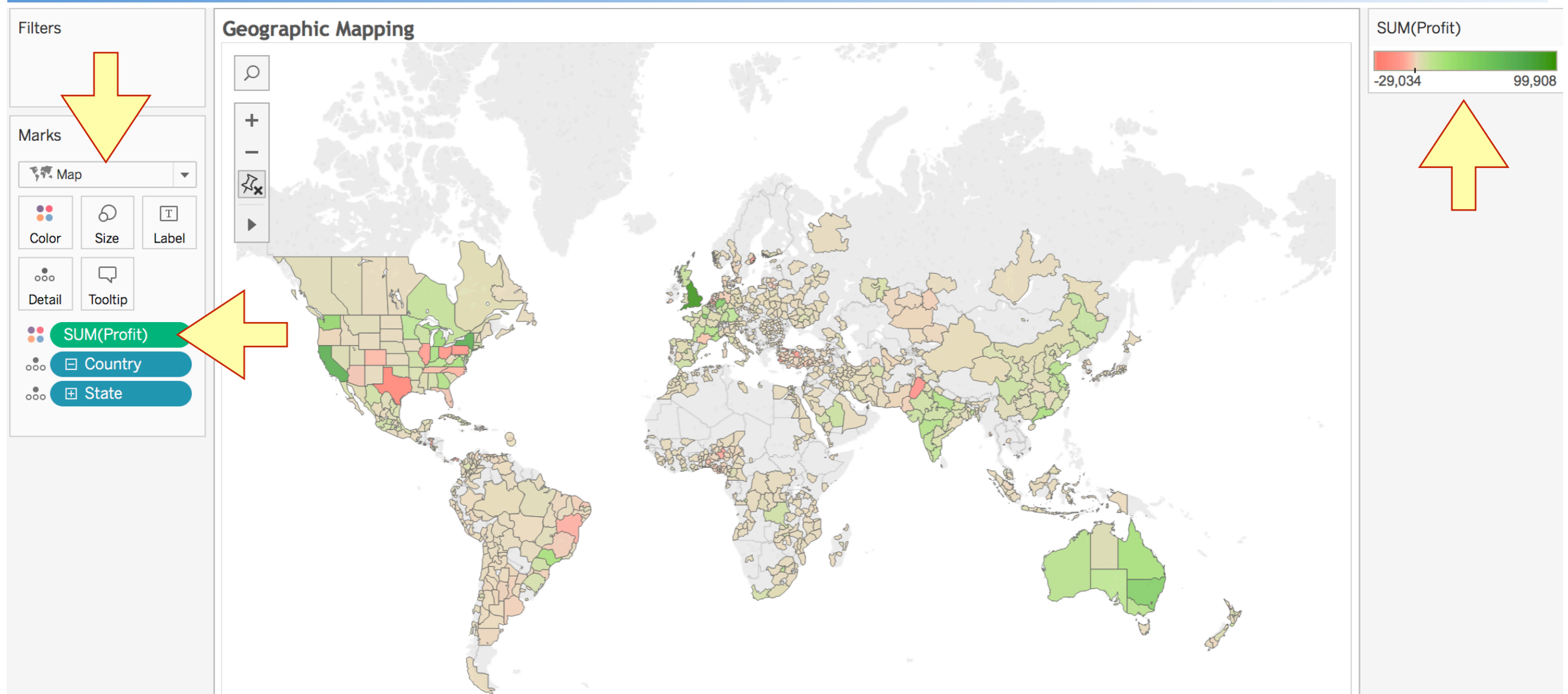
Geocoding - Filled Maps



Geocoding - Filled Maps

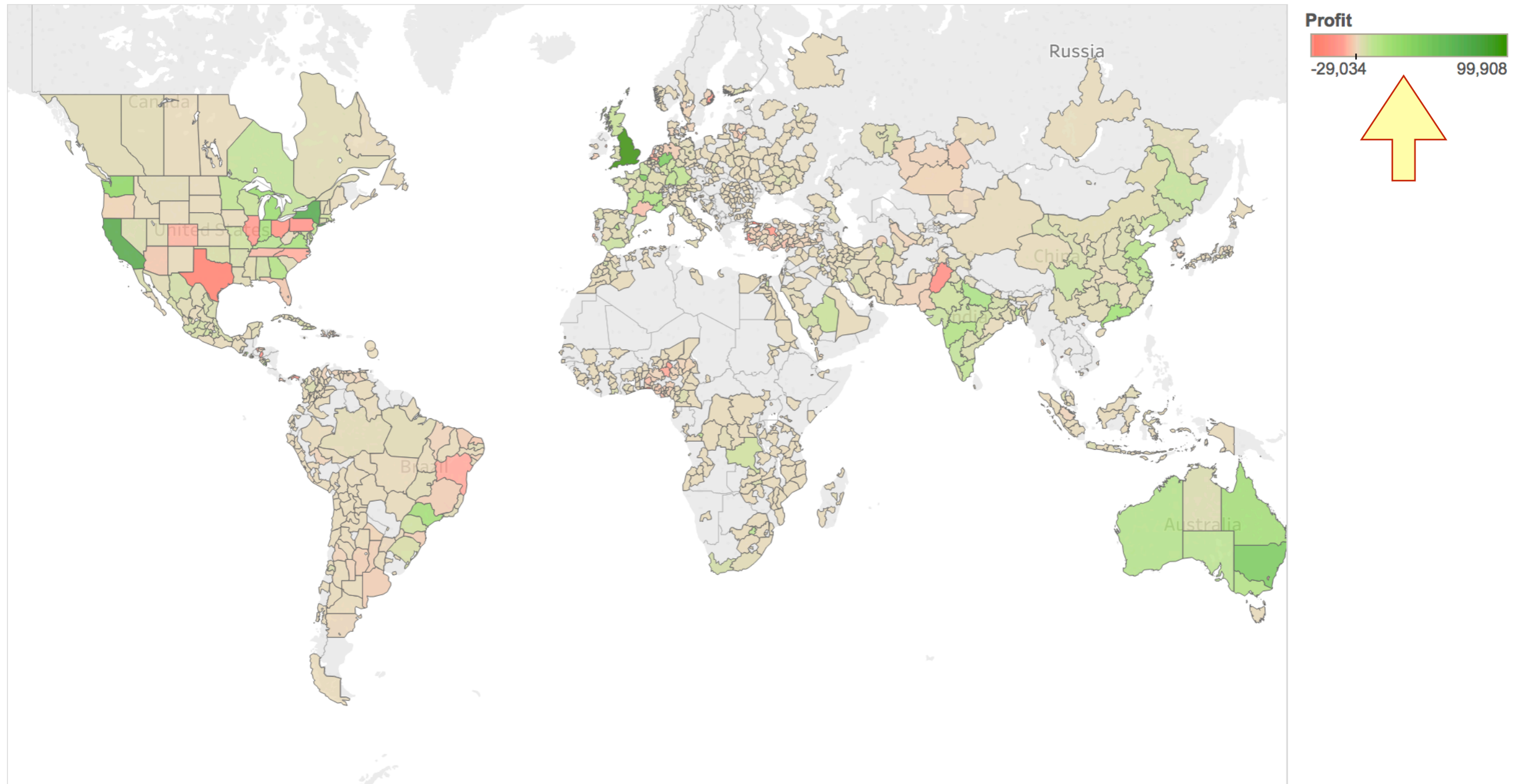


Geocoding - Filled Maps



Geocoding - Filled Maps

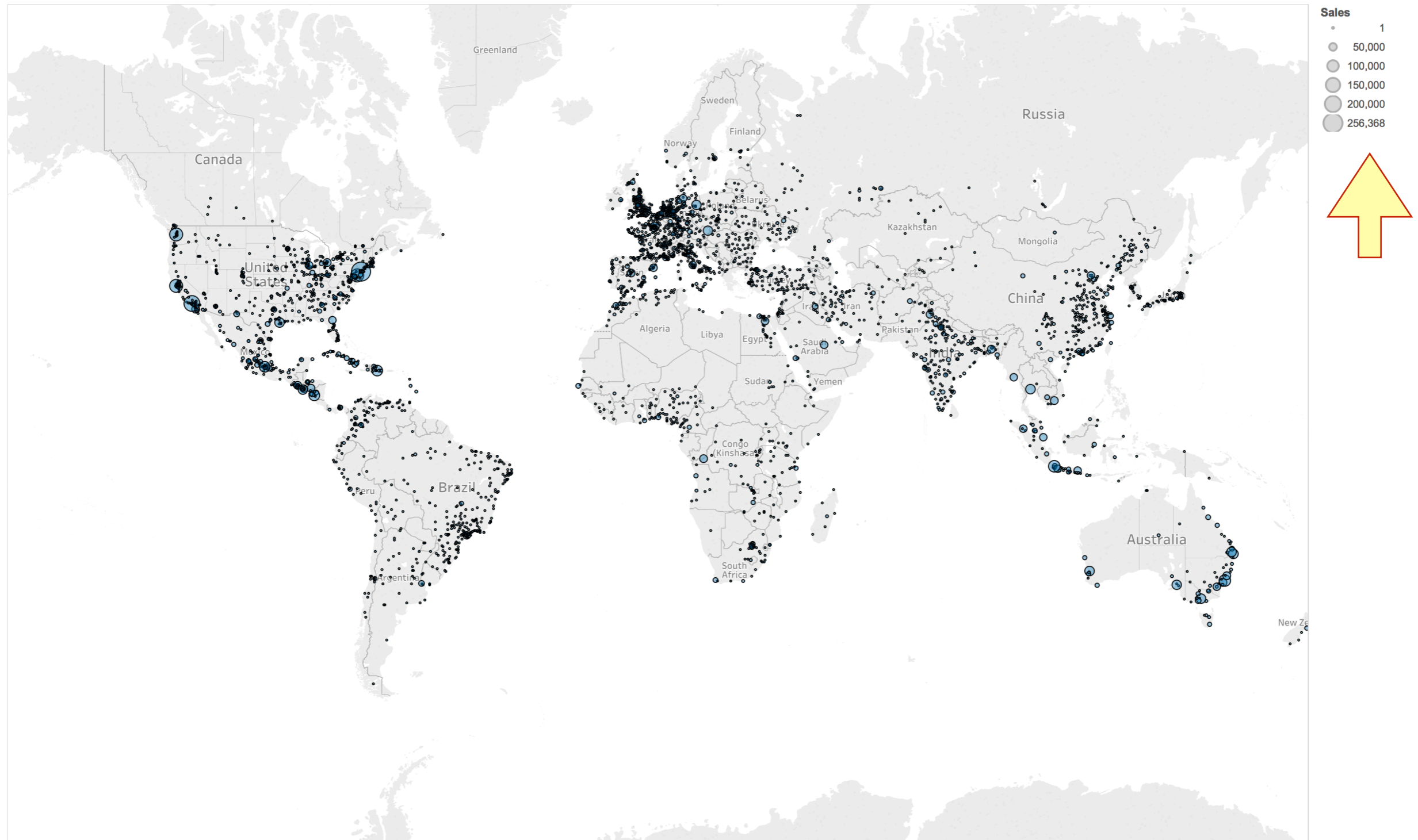
Geographic Mapping



Map based on Longitude (generated) and Latitude (generated). Color shows sum of Profit. Details are shown for Country and State.

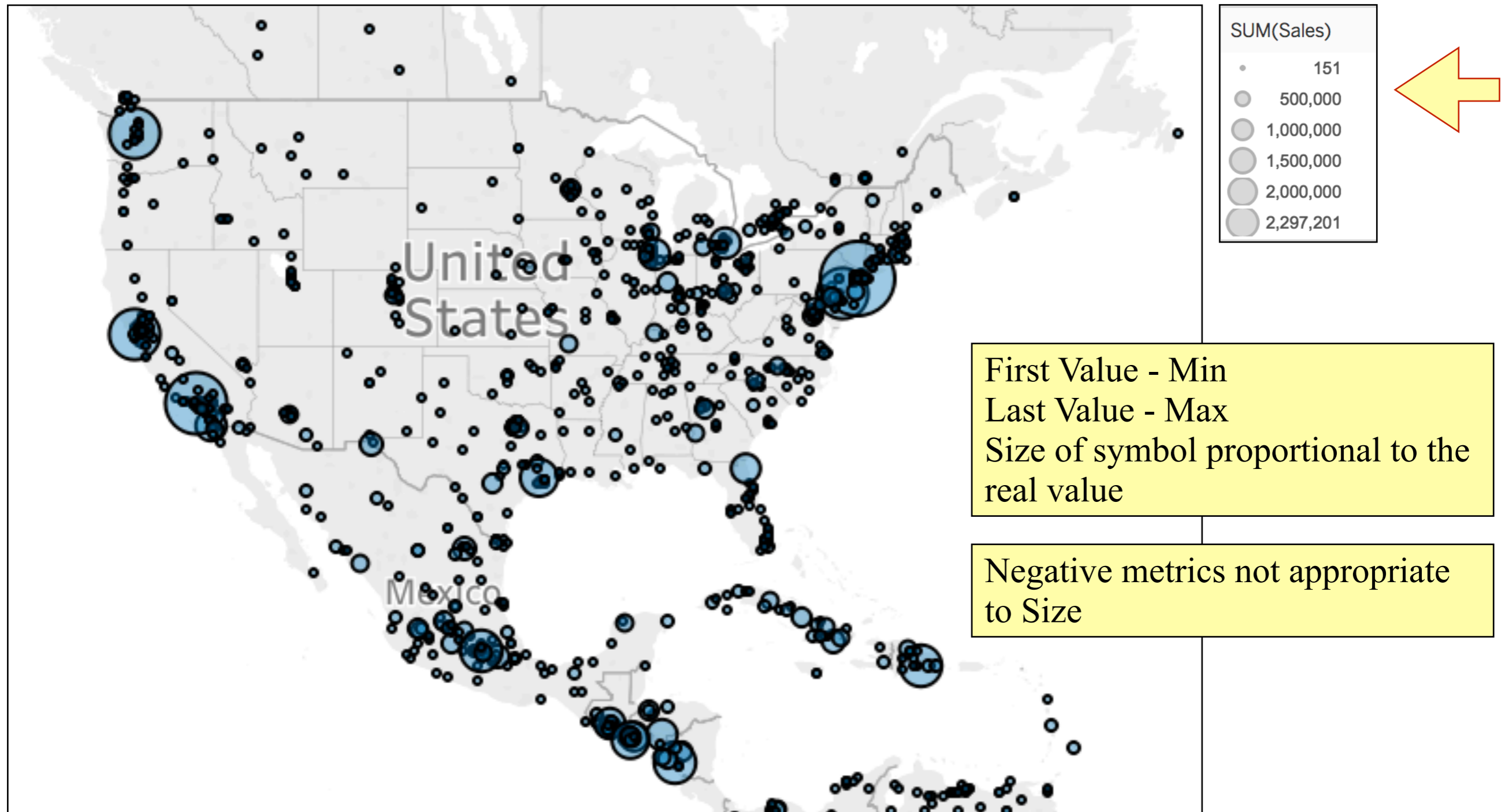
Geocoding - Point Maps (Cities) - Size

Geographic Mapping



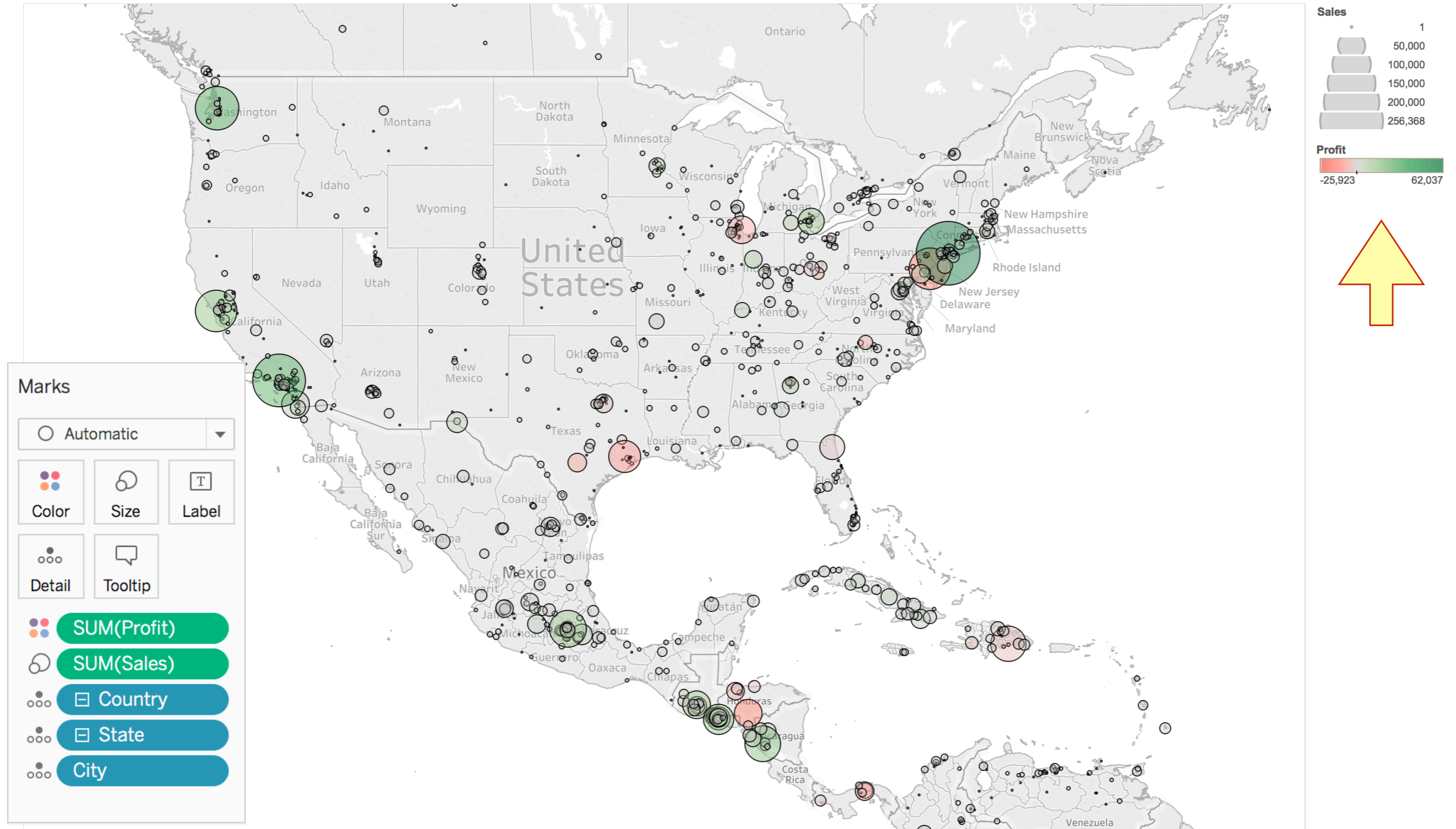
Map based on Longitude (generated) and Latitude (generated). Size shows sum of Sales. Details are shown for Country, State and City.

Geocoding - Point Maps (Cities) - Size



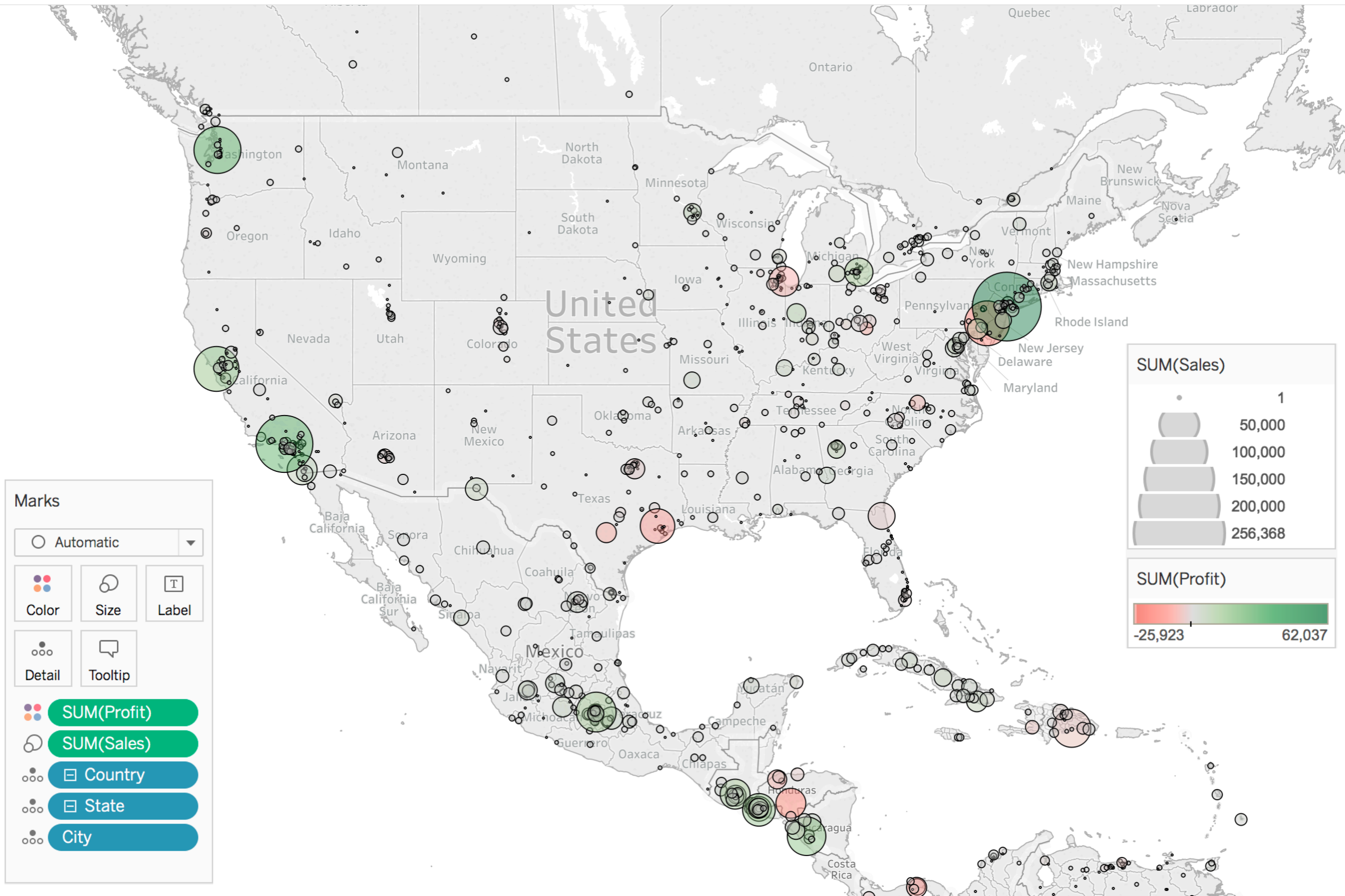
Geocoding - Point Maps (Cities) - Size and Color

Geographic Mapping



Map based on Longitude (generated) and Latitude (generated). Color shows sum of Profit. Size shows sum of Sales. Details are shown for Country, State and City.

Geographic Mapping



Map based on Longitude (generated) and Latitude (generated). Color shows sum of Profit. Size shows sum of Sales. Details are shown for Country, State and City.

Map Layers

Map Layers

Background

Style: Light

Washout: 0%

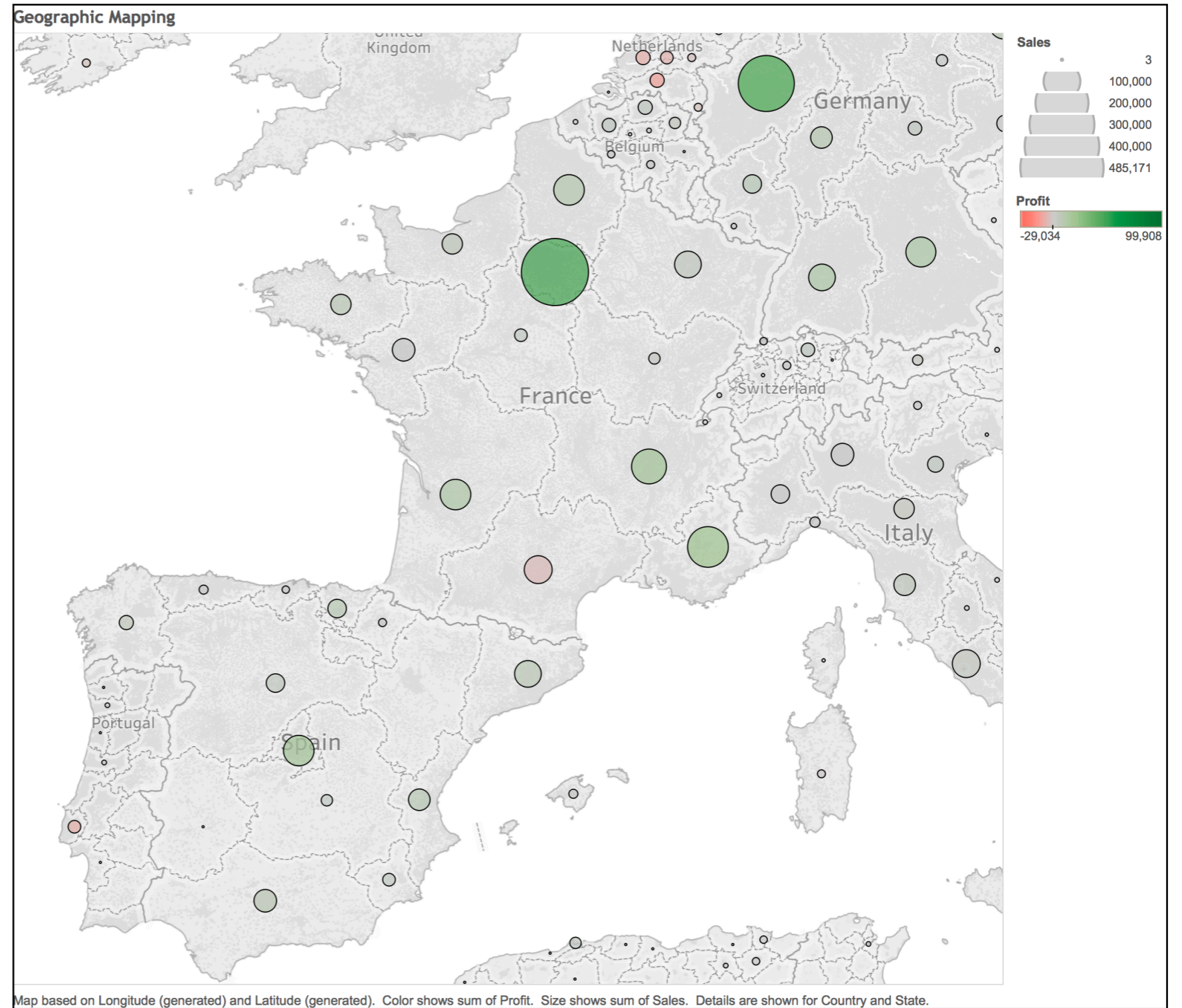
Repeat Background

Map Layers

- Base
- Land Cover
- Coastline
- Streets and Highways
- Light Country/Region B...
- Light Country/Region N...
- Country/Region Borders
- Country/Region Names
- Light State/Province B...
- Light State/Province N...
- State/Province Borders
- State/Province Names
- County Borders
- County Names
- Zip Code Boundaries
- Zip Code Labels
- Area Code Boundaries
- Area Code Labels
- US Metro Boundaries (...)
- US Metro Labels (CBSA)
- Place Names

Data Layer

Layer: No Data Layer



Map Layers

Map Layers

Background

Style:

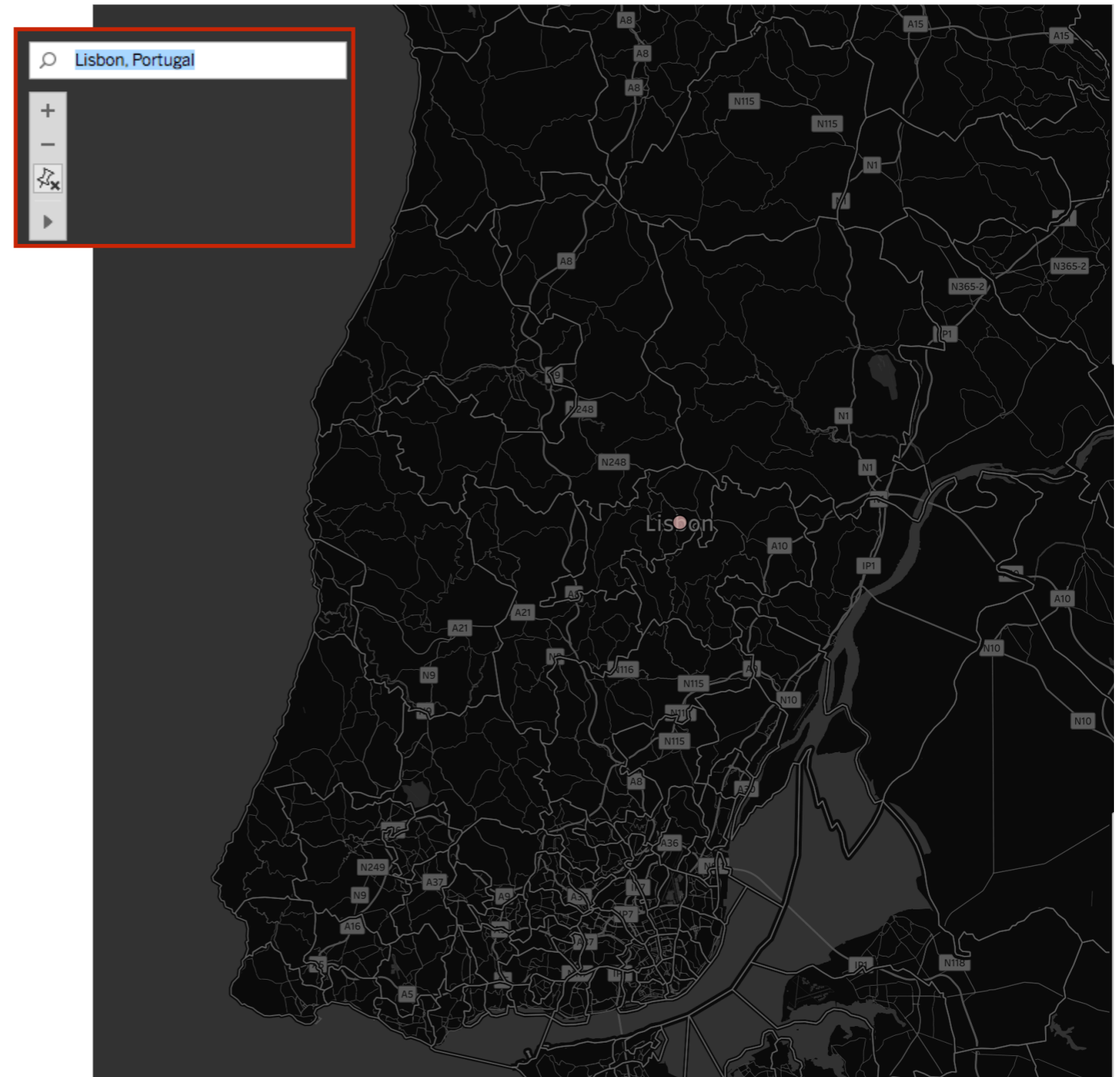
Washout:

Repeat Background

Map Layers

- Base
- Land Cover
- Coastline
- Streets and Highways
- Light Country/Region B...
- Light Country/Region N...
- Country/Region Borders
- Country/Region Names
- Light State/Province B...
- Light State/Province N...
- State/Province Borders
- State/Province Names
- County Borders
- County Names
- Zip Code Boundaries
- Zip Code Labels
- Area Code Boundaries
- Area Code Labels
- US Metro Boundaries (...)
- US Metro Labels (CBSA)
- Place Names

Geographic Mapping



Map based on Longitude (generated) and Latitude (generated). Color shows sum of Profit. Size shows sum of Sales. Details are shown for Country and Sta

Map Layers

Map Layers

Background

Style:

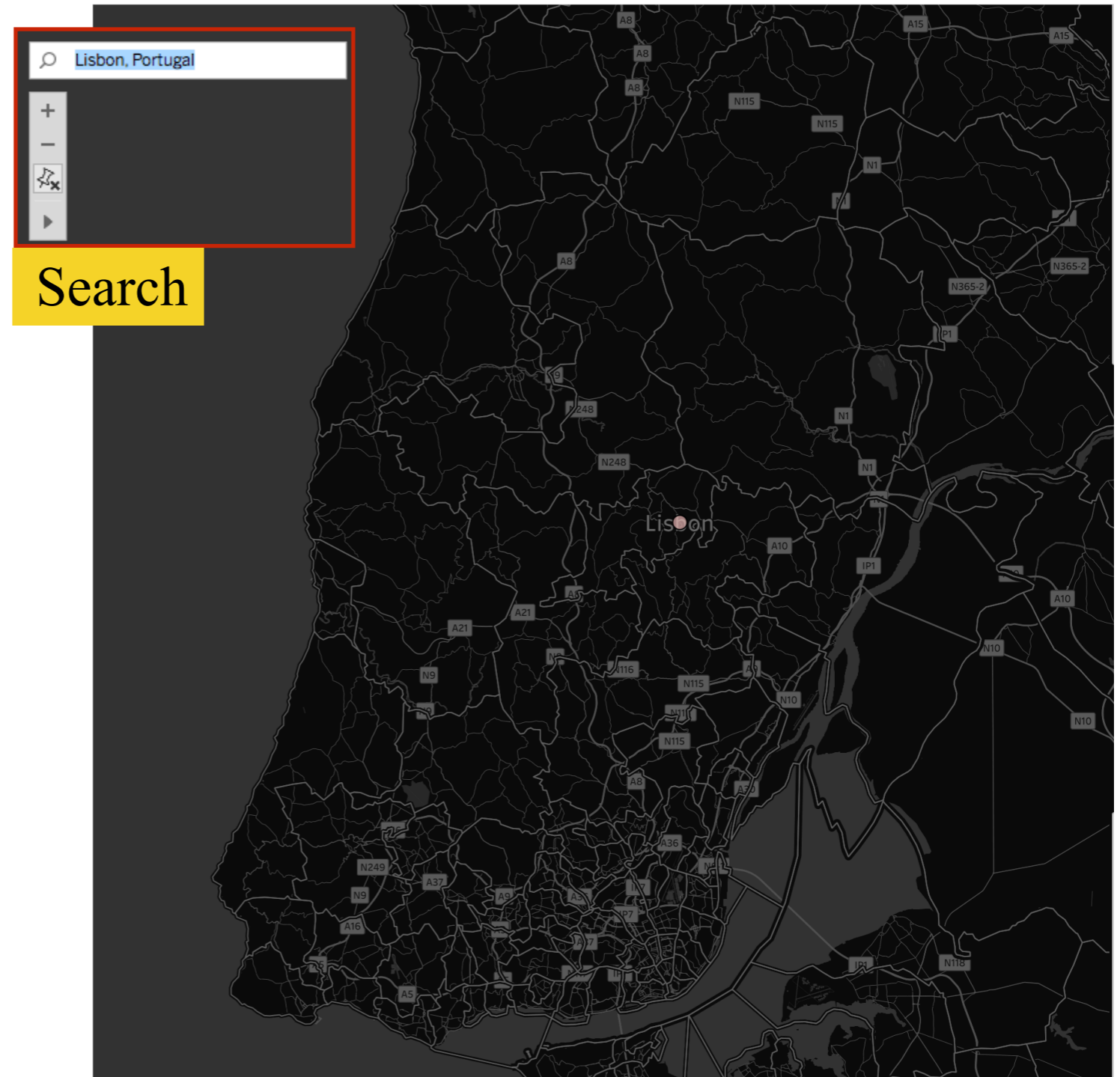
Washout:

Repeat Background

Map Layers

- Base
- Land Cover
- Coastline
- Streets and Highways
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- Light Country/Region N...
- Country/Region Borders
- Country/Region Names
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- US Metro Labels (CBSA)
- Place Names

Geographic Mapping



Map based on Longitude (generated) and Latitude (generated). Color shows sum of Profit. Size shows sum of Sales. Details are shown for Country and Sta

Map Layers

Map Layers

Background

Style:

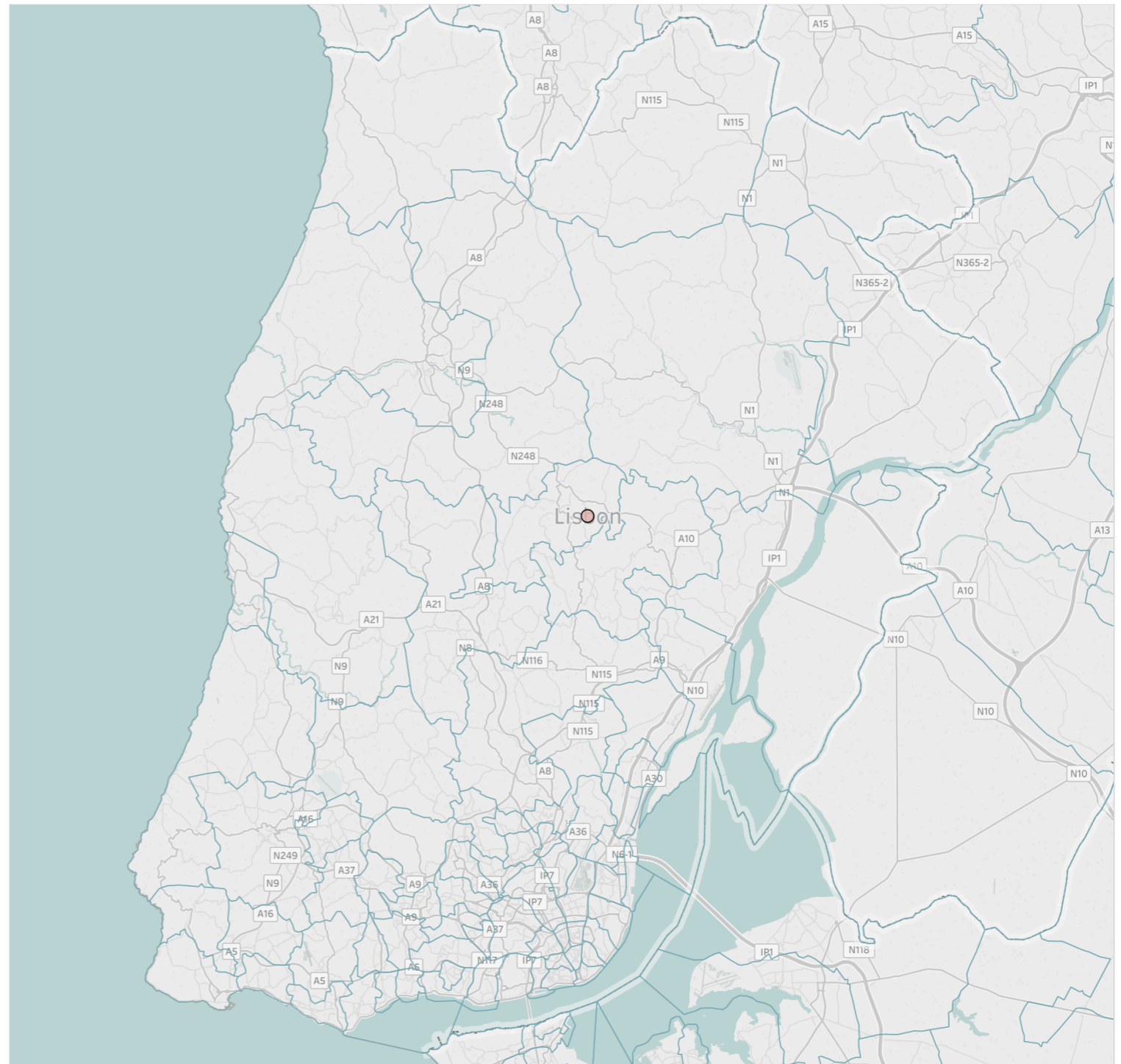
Washout:

Repeat Background

Map Layers

- Base
- Land Cover
- Coastline
- Streets and Highways
- Light Country/Region B...
- Light Country/Region N...
- Country/Region Borders
- Country/Region Names
- Light State/Province B...
- Light State/Province N...
- State/Province Borders
- State/Province Names
- County Borders
- County Names
- Zip Code Boundaries
- Zip Code Labels
- Area Code Boundaries
- Area Code Labels
- US Metro Boundaries (...)
- US Metro Labels (CBSA)
- Place Names

Geographic Mapping



Map based on Longitude (generated) and Latitude (generated). Color shows sum of Profit. Size shows sum of Sales. Details are shown for Country and State.



Geocoding and editing locations

Editing unrecognized locations

[Video Link](#)

The screenshot shows the Tableau interface for editing unrecognized locations. The main window is titled "Tableau - Editing Unrecognized Locations". The menu bar includes File, Data, Worksheet, Dashboard, Story, Analysis, Map, Format, Server, Window, and Help. The toolbar contains various icons for navigation and editing. The interface is divided into several panes:

- Data:** Shows "Editing Locations".
- Dimensions:** Includes City, Location (Market, Region, Country, State, Postal Code), Row ID, and Measure Names.
- Measures:** Includes Sales, Latitude (generated), Longitude (generated), Number of Records, and Measure Values.
- Columns:** Contains "Longitude (generated)".
- Rows:** Contains "Latitude (generated)".
- Marks:** Set to "Automatic".
- Map:** A world map showing unrecognized locations as small red dots.

The status bar at the bottom indicates "0 marks" and "1 row by 1 column".

Editing unrecognized locations

[Video Link](#)

Tableau - Editing Unrecognized Locations

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Editing Locations

Dimensions

- City
- Location
 - Market
 - Region
 - Country
 - State
 - Postal Code
- Row ID
- Measure Names

Measures

- Sales
- Latitude (generated)
- Longitude (generated)
- Number of Records
- Measure Values

Columns: Longitude (generated)

Rows: Latitude (generated)

Marks: Automatic

Color, Size, Label, Detail, Tooltip

© OpenStreetMap contributors

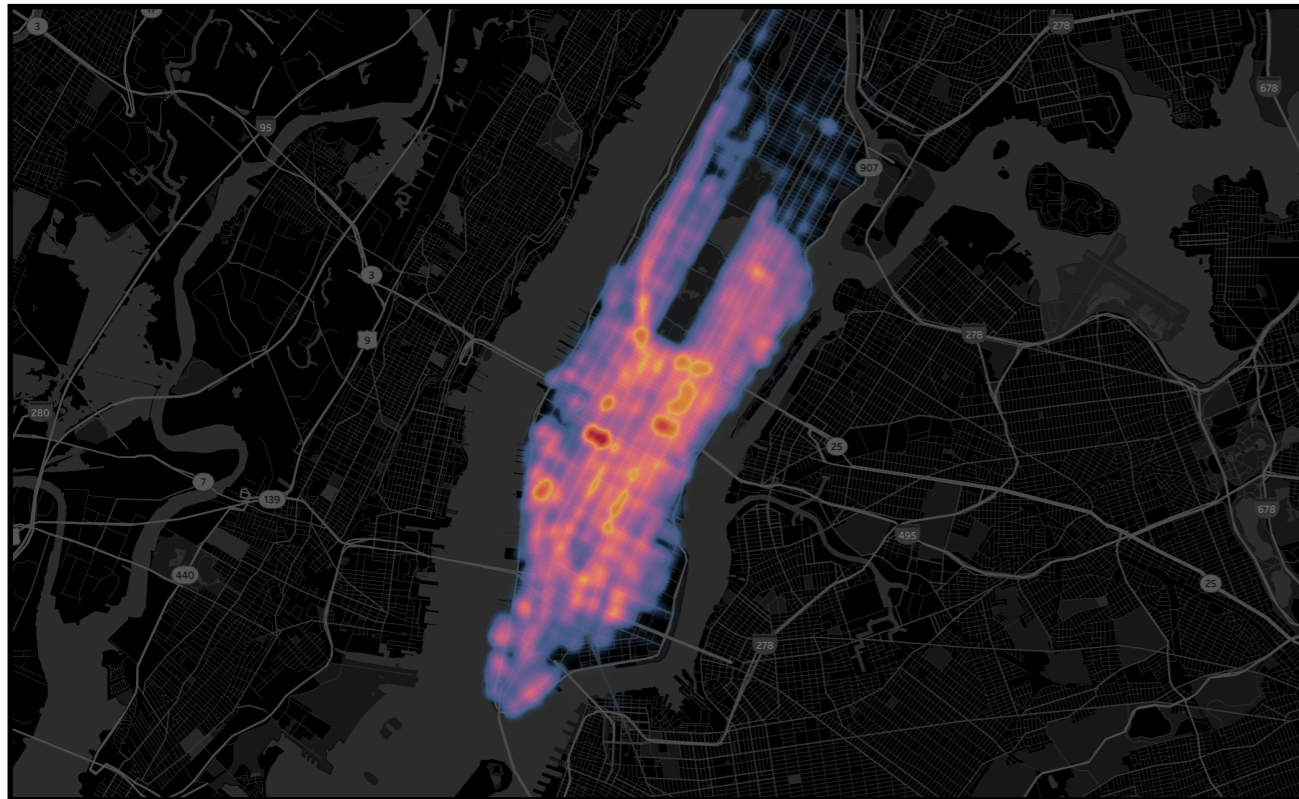
Data Source Editing Locations

0 marks 1 row by 1 column

Density Maps

Density Plots

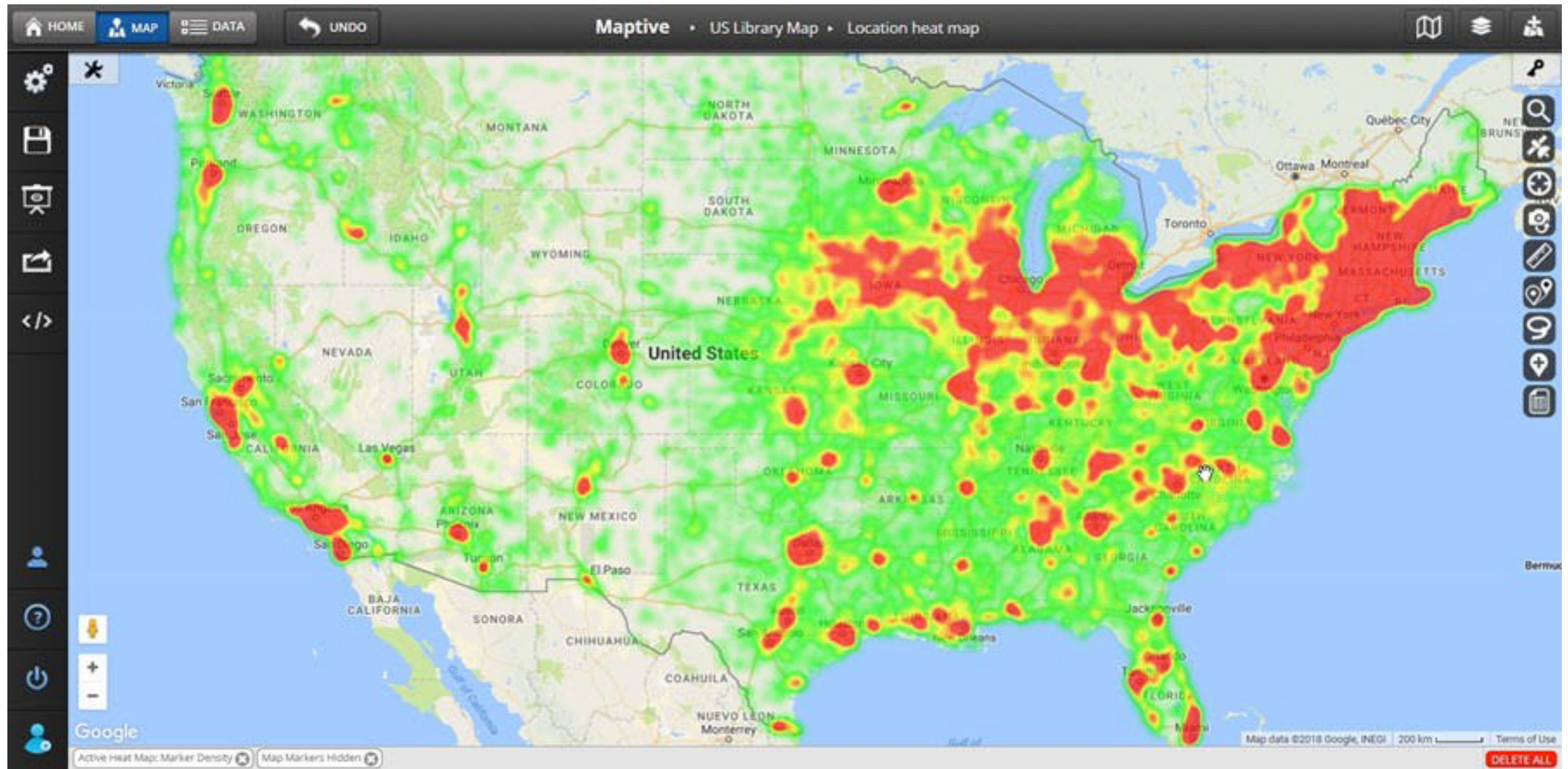
Density Geographic Map



Density ScatterPlot

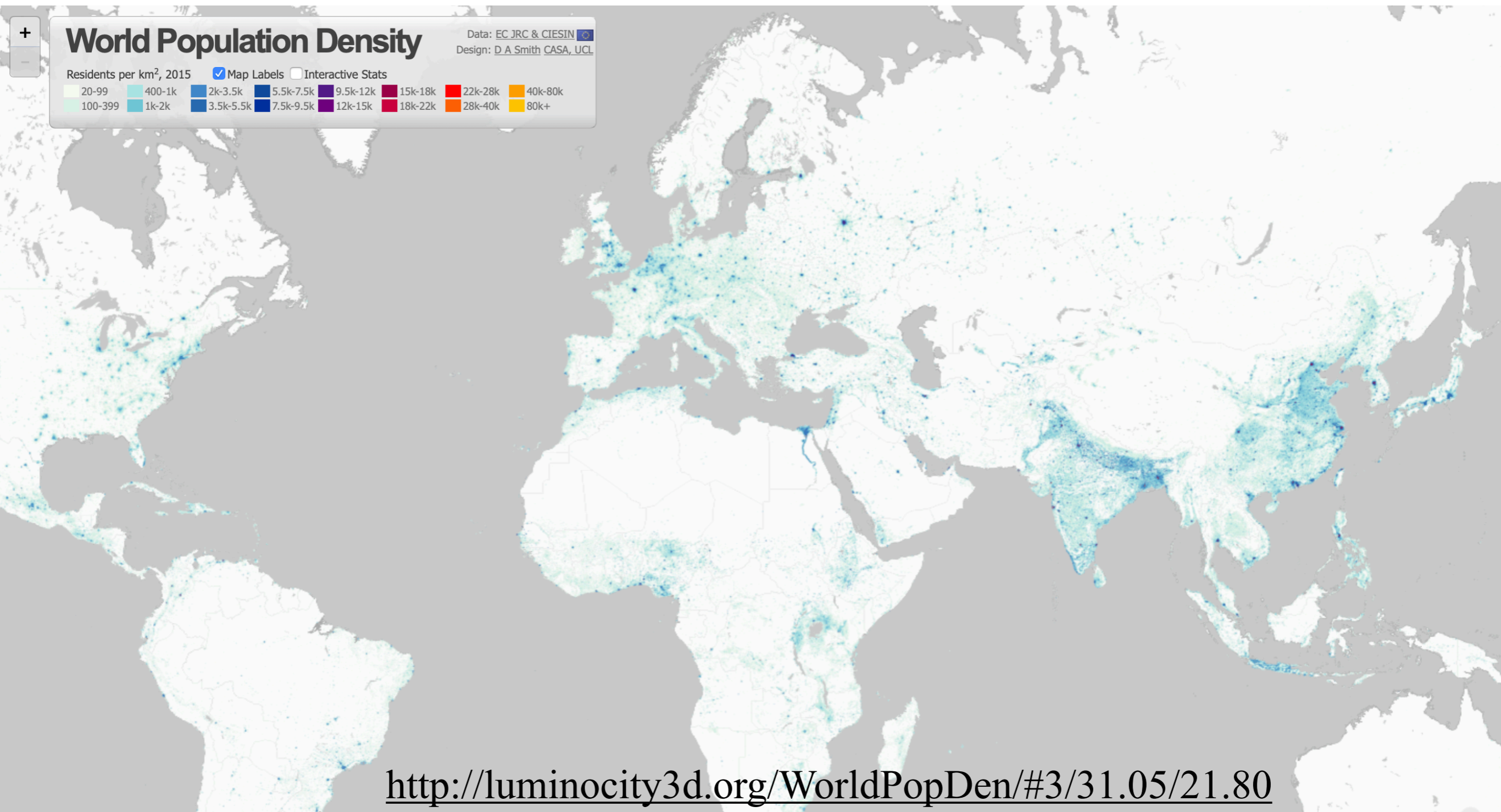


Density Plots - Heat Maps



<https://www.maptive.com/data-visualization-tools/>

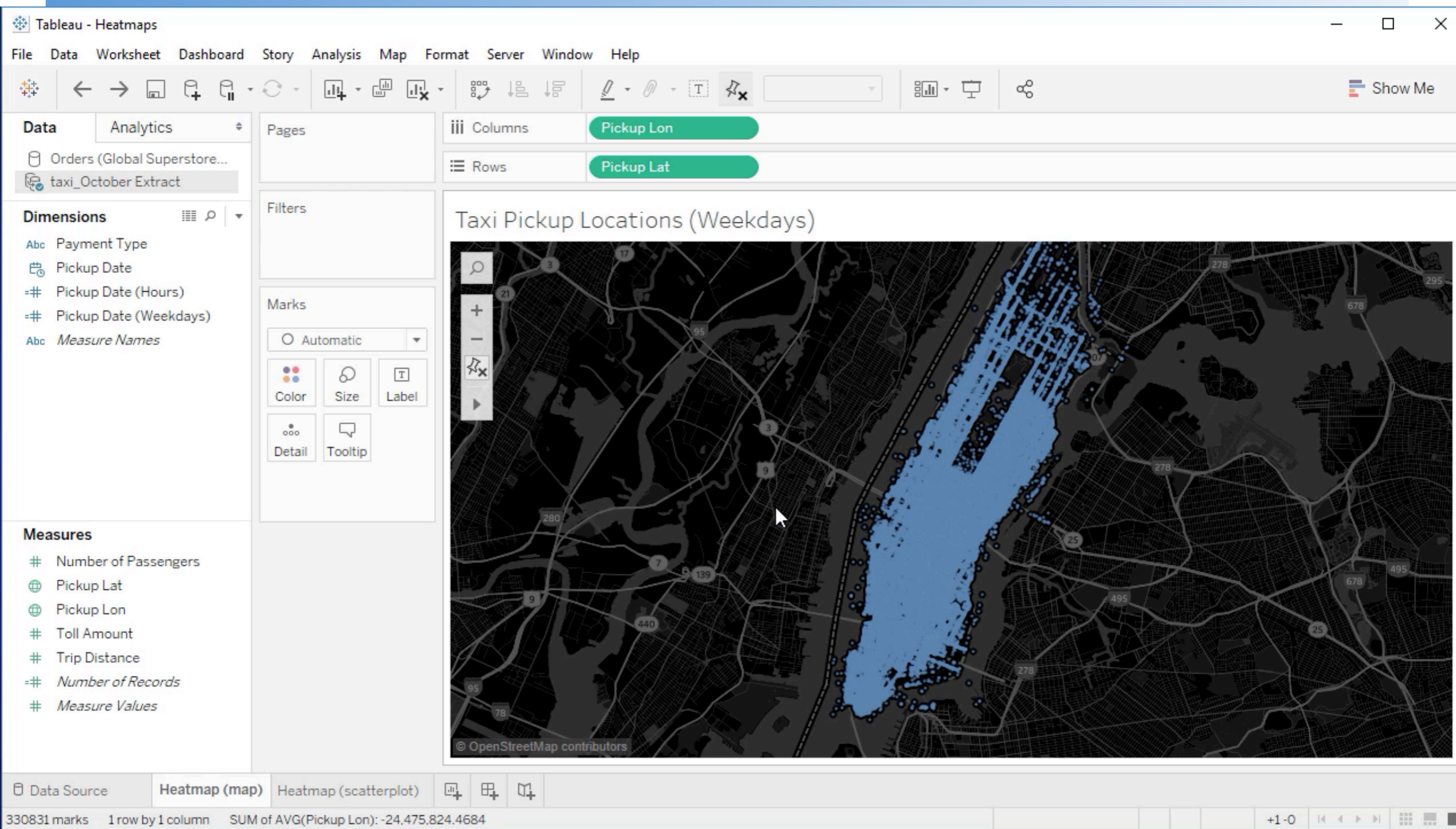
Density Plots - Heat Maps



<http://luminocity3d.org/WorldPopDen/#3/31.05/21.80>

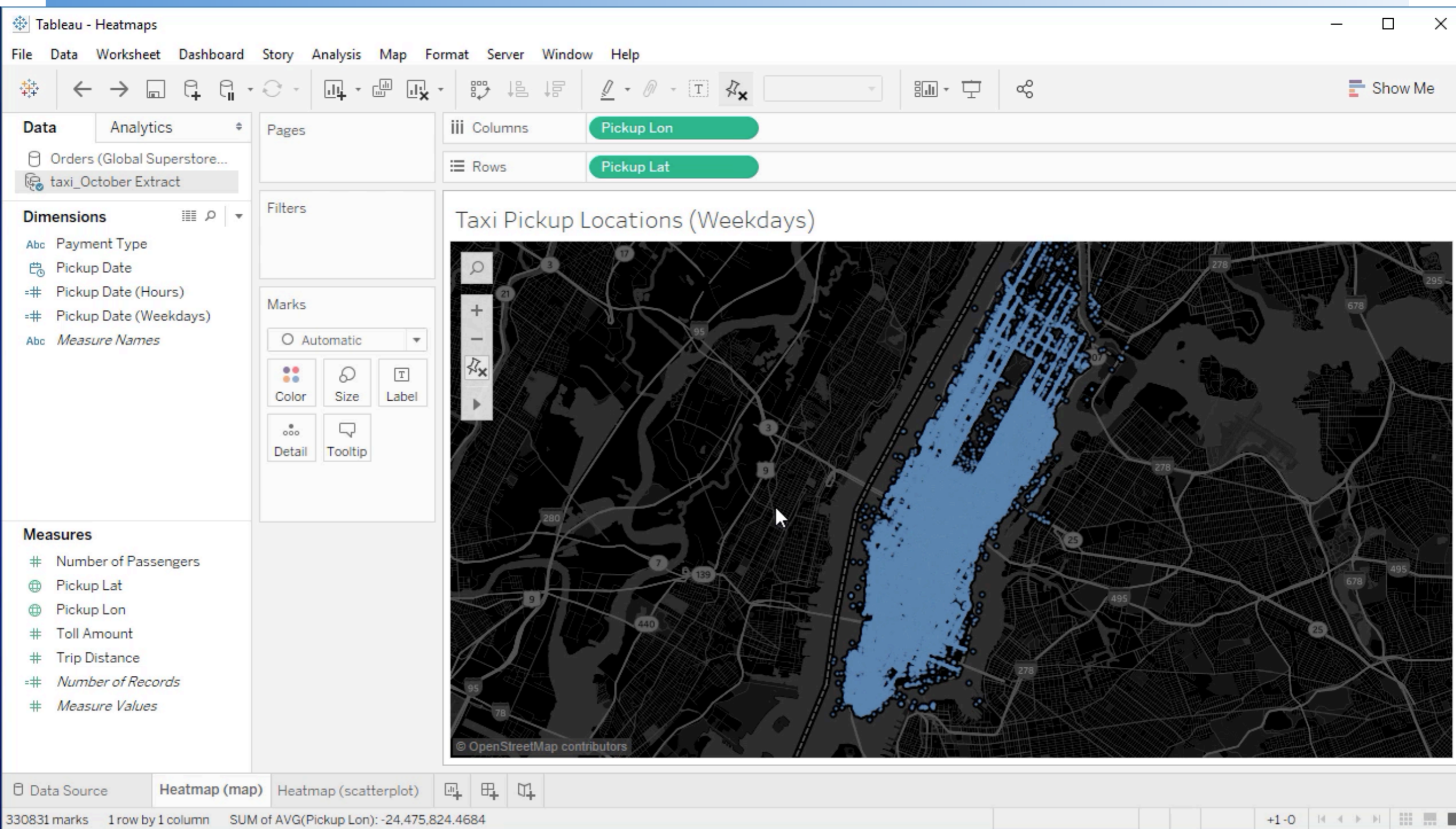
Density Plots - Tableau

[Video Link](#)



Density Plots - Tableau

[Video Link](#)



Spatial Files

Spatial Files

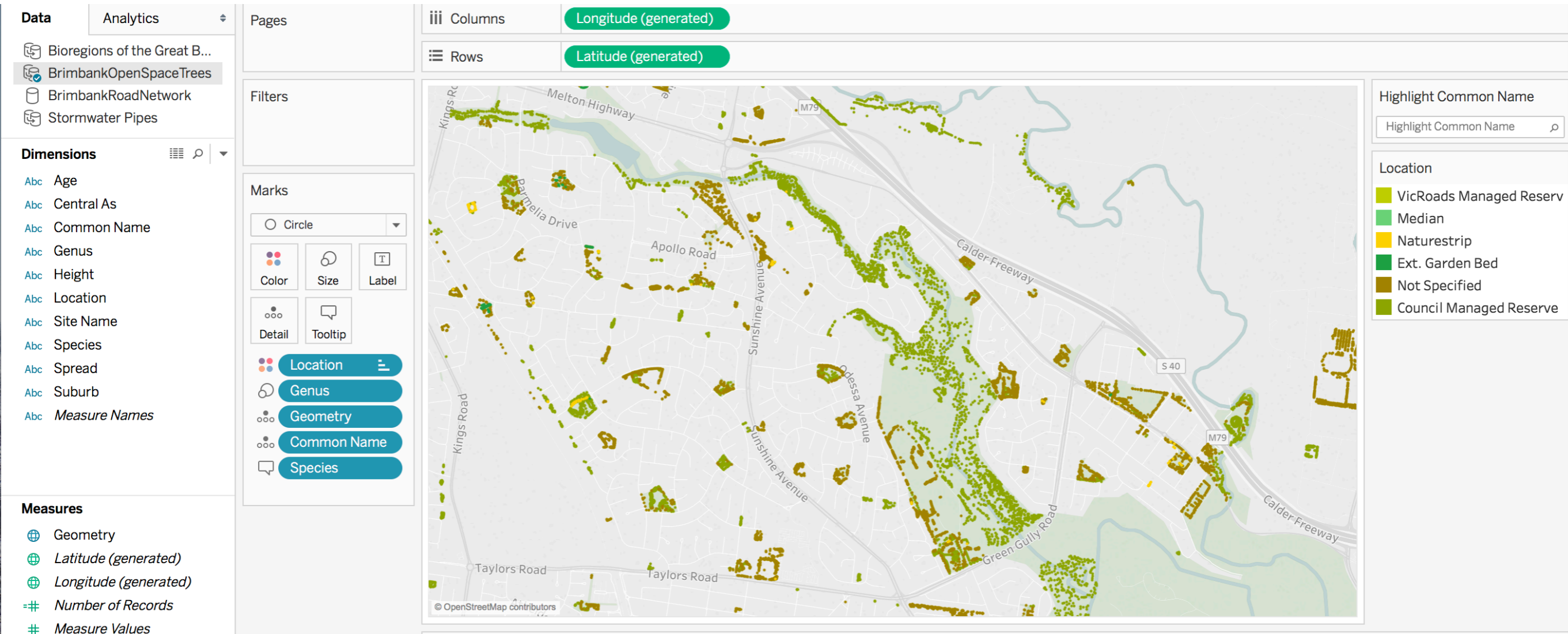
■ Geometry data types

- ◆ Point
- ◆ Line
- ◆ Polygons

■ Spatial Formats

- ◆ **ESRI shapefiles**: The folder must contain a .shp, .shx, and .dbf file.
- ◆ **MapInfo tables**: The folder must contain a .TAB, .DAT, .MAP and .ID or .MID/.MIF file.
- ◆ **KML files**
- ◆ **GeoJSON files**

Spatial Files - Points (from a shapefile)



Brimbank Open Space Trees

<https://data.gov.au/dataset/brimbank-open-space-trees>

Spatial Files - Points (from a shapefile)

The screenshot displays the Tableau interface for a visualization titled "Space Trees". The interface is divided into several panes:

- Data:** Lists data sources including "Bioregions of the Great B...", "BrimbankOpenSpaceTrees" (selected), "BrimbankRoadNetwork", and "Stormwater Pipes".
- Dimensions:** Lists fields such as "Age", "Central As", "Common Name", "Genus", "Height", "Location", "Site Name", "Species", "Spread", "Suburb", and "Measure Names".
- Measures:** Lists fields such as "Geometry", "Latitude (generated)", "Longitude (generated)", "Number of Records", and "Measure Values".
- Filters:** Currently empty.
- Marks:** Shows the mark type set to "Circle". Dimensions are placed on the mark: "Location", "Genus", "Geometry", "Common Name", and "Species".
- Map:** A map showing a network of roads (Copernicus Way, Sunshine Avenue) with green and yellow points representing tree locations. Some points are clustered within green shaded areas.

Spatial Files - Points (from a shapefile)

Data | Analytics | Pages | Space Trees

Bioregions of the Great B...
 BrimbankOpenSpaceTrees
 BrimbankR...
 Stormwater...

Common Name	Genus	Location	Species	Geometry	Latitude (generated)	Longitude (generated)
Japanese Zelkova	Zelkova	Council Managed Reserve	serrata	POINT	-37.779102	144.767708
Japanese Zelkova	Zelkova	Council Managed Reserve	serrata	POINT	-37.779054	144.767712
Japanese Zelkova	Zelkova	Council Managed Reserve	serrata	POINT	-37.779005	144.767719
Japanese Zelkova	Zelkova	Council Managed Reserve	serrata	POINT	-37.778956	144.767725
Japanese Zelkova	Zelkova	Council Managed Reserve	serrata	POINT	-37.778907	144.767733
Japanese Zelkova	Zelkova	Council Managed Reserve	serrata	POINT	-37.778862	144.767738
Japanese Zelkova	Zelkova	Council Managed Reserve	serrata	POINT	-37.778796	144.767747
Japanese Zelkova	Zelkova	Council Managed Reserve	serrata	POINT	-37.738313	144.816309
Japanese Zelkova	Zelkova	Council Managed Reserve	serrata	POINT	-37.738266	144.815995
Japanese Zelkova	Zelkova	Council Managed Reserve	serrata	POINT	-37.738223	144.816321
Japanese Zelkova	Zelkova	Council Managed Reserve	serrata	POINT	-37.738188	144.816174
Leyland Cypress	XCupressocyparis	Council Managed Reserve	leylandii	POINT	-37.759489	144.791320
Leyland Cypress	XCupressocyparis	Council Managed Reserve	leylandii	POINT	-37.689436	144.796633
Leyland Cypress	XCupressocyparis	Council Managed Reserve	leylandii cv	POINT	-37.689046	144.795447
Leyland Cypress	XCupressocyparis	Council Managed Reserve	leylandii	POINT	-37.687054	144.793708
Leyland Cypress	XCupressocyparis	Council Managed Reserve	leylandii	POINT	-37.686752	144.794145
Leyland Cypress	XCupressocyparis	Council Managed Reserve	leylandii	POINT	-37.685772	144.798315
Leyland Cypress	XCupressocyparis	Council Managed Reserve	leylandii	POINT	-37.683609	144.796835

Dimensions

- Age
- Central As
- Common N
- Genus
- Height
- Location
- Site Name
- Species
- Spread
- Suburb
- Measure M

Measures

- Geometry
- Latitude (generated)
- Longitude (generated)
- Number of Records
- Measure Values

Spatial Files - Points (from a shapefile)

The screenshot displays the Tableau Desktop interface. On the left, the 'Data' pane shows a list of data sources: 'Bioregions of the ...', 'BrimbankOpenS...', 'BrimbankRoadNe...', and 'Stormwater Pipes'. Below this, the 'Dimensions' pane lists various fields such as 'Age', 'Central As', 'Common Name', 'Genus', 'Height', 'Location', 'Site Name', 'Species', 'Spread', 'Suburb', and 'Measure Names'. The 'Measures' pane at the bottom left contains 'Geometry', 'Latitude (generated)', 'Longitude (generat...', 'Number of Records', and 'Measure Values'. The 'Marks' card is set to 'Automatic'. The main view area is labeled 'Sheet 5' and contains three 'Drop field here' prompts. A large, hand-drawn red arrow originates from the 'Geometry' field in the Measures pane and points to the top-right 'Drop field here' prompt.

Pages

Columns

Longitude (generated)

Rows

Latitude (generated)

Filters

Sheet 5

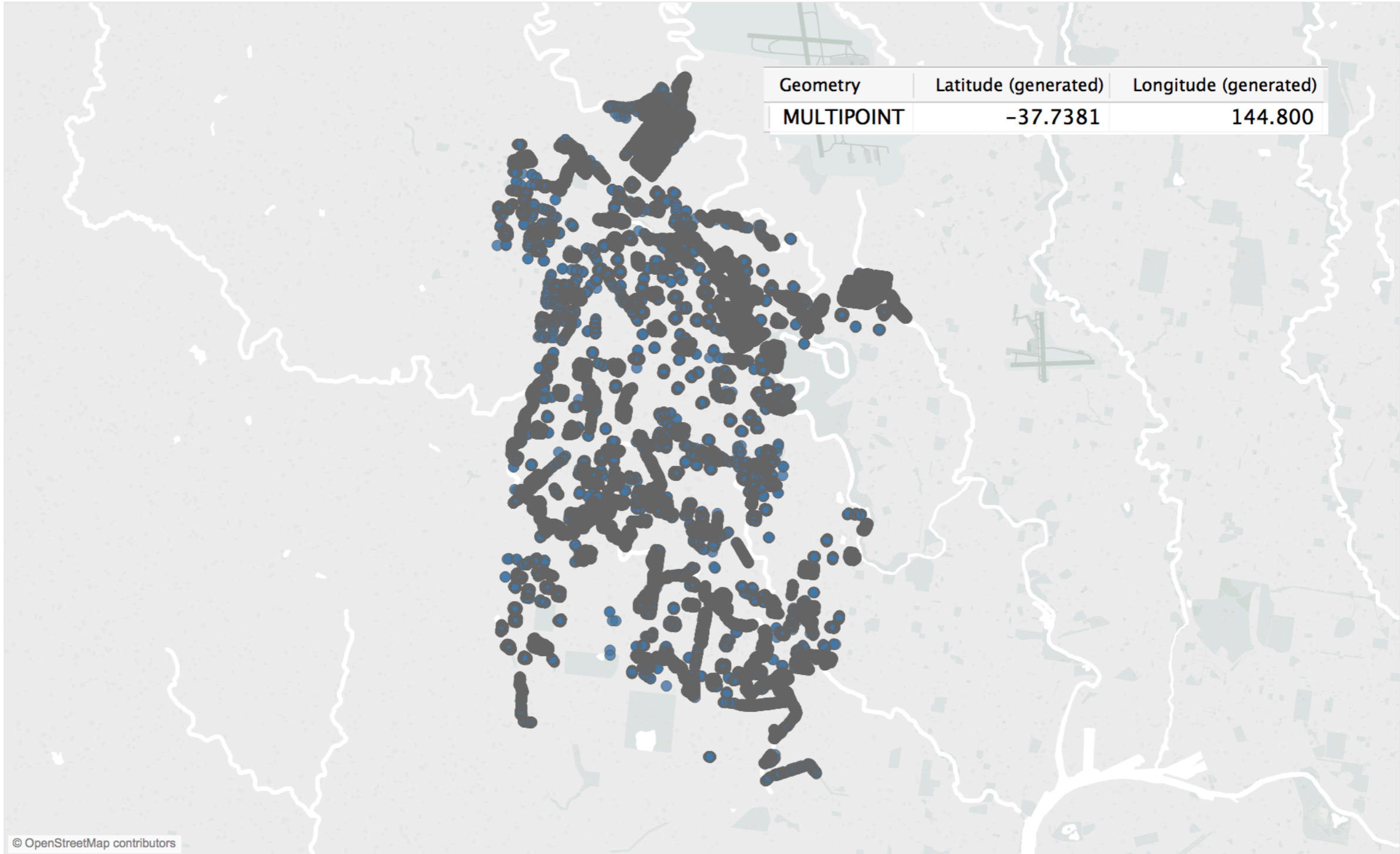
Marks

Automatic

Color Size La...

Detail Tooltip

COLLEC..



Analysis | Map | Format | Server

- Show Mark Labels
- Aggregate Measures**
- Stack Marks ▶
- View Data...
- Reveal Hidden Data

- Percentage Of ▶





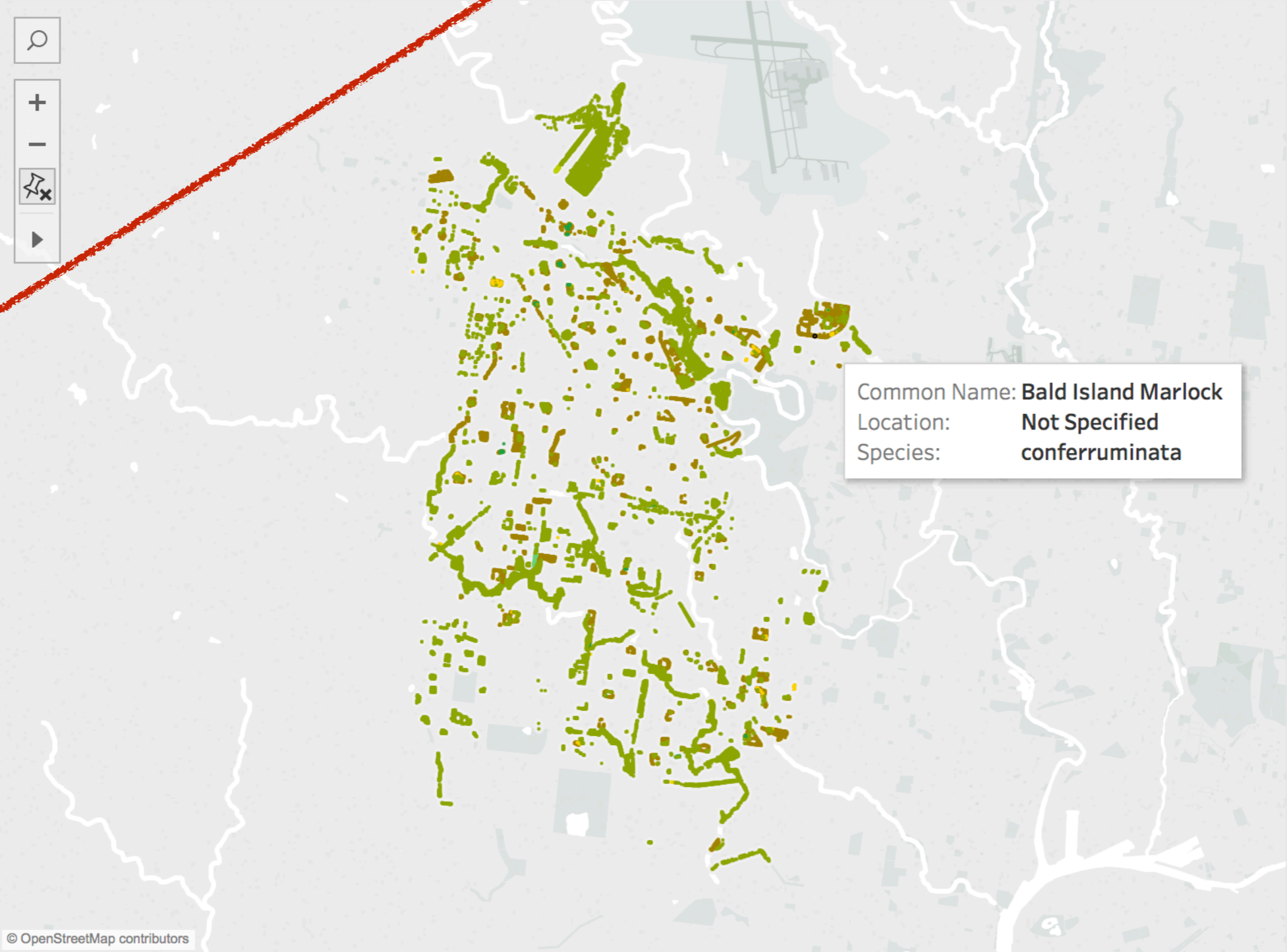






Geometry	Latitude (generated)	Longitude (generated)
POINT	-37.820417	144.826096
POINT	-37.820364	144.826227
POINT	-37.820348	144.826077
POINT	-37.820271	144.826345
POINT	-37.820169	144.826510
POINT	-37.820087	144.826685
POINT	-37.819996	144.826852
POINT	-37.819901	144.826935
POINT	-37.819827	144.826812
POINT	-37.819768	144.827005
POINT	-37.819634	144.827162
POINT	-37.819536	144.827320
POINT	-37.819286	144.828834
POINT	-37.819211	144.829049
POINT	-37.819193	144.828620

Sheet 5



- Location
- Council Managed Re..
 - Ext. Garden Bed
 - Median
 - Naturestrip
 - Not Specified
 - VicRoads Managed R..

Filters

Marks

Circle

Color Size La...

Detail Tooltip

Location

Geometry

Commo..

Species

Map Layers

Background

Style: Dark

Washout: 0%

Repeat Backgrou...

Map Layers

- Base
- Land Cover
- Coastline
- Streets and H...
- Light Country...
- Light Country...
- Country/Regi...
- Country/Regi...
- Light State/P...
- Light State/P...
- State/Provin...
- State/Provin...
- County Borde...
- County Name...

Data Layer

Layer: No Dat...

Make Default Reset

Pages

Filters

Marks

Circle

Color Size La...

Detail Tooltip

Location

Geometry

Commo..

Species

Columns

Longitude (generated)

Rows

Latitude (generated)

Sheet 5



Location

- Council Managed Re..
- Ext. Garden Bed
- Median
- Naturestrip
- Not Specified
- VicRoads Managed R..

Map Layers

Background

Style:

Washout: 0%

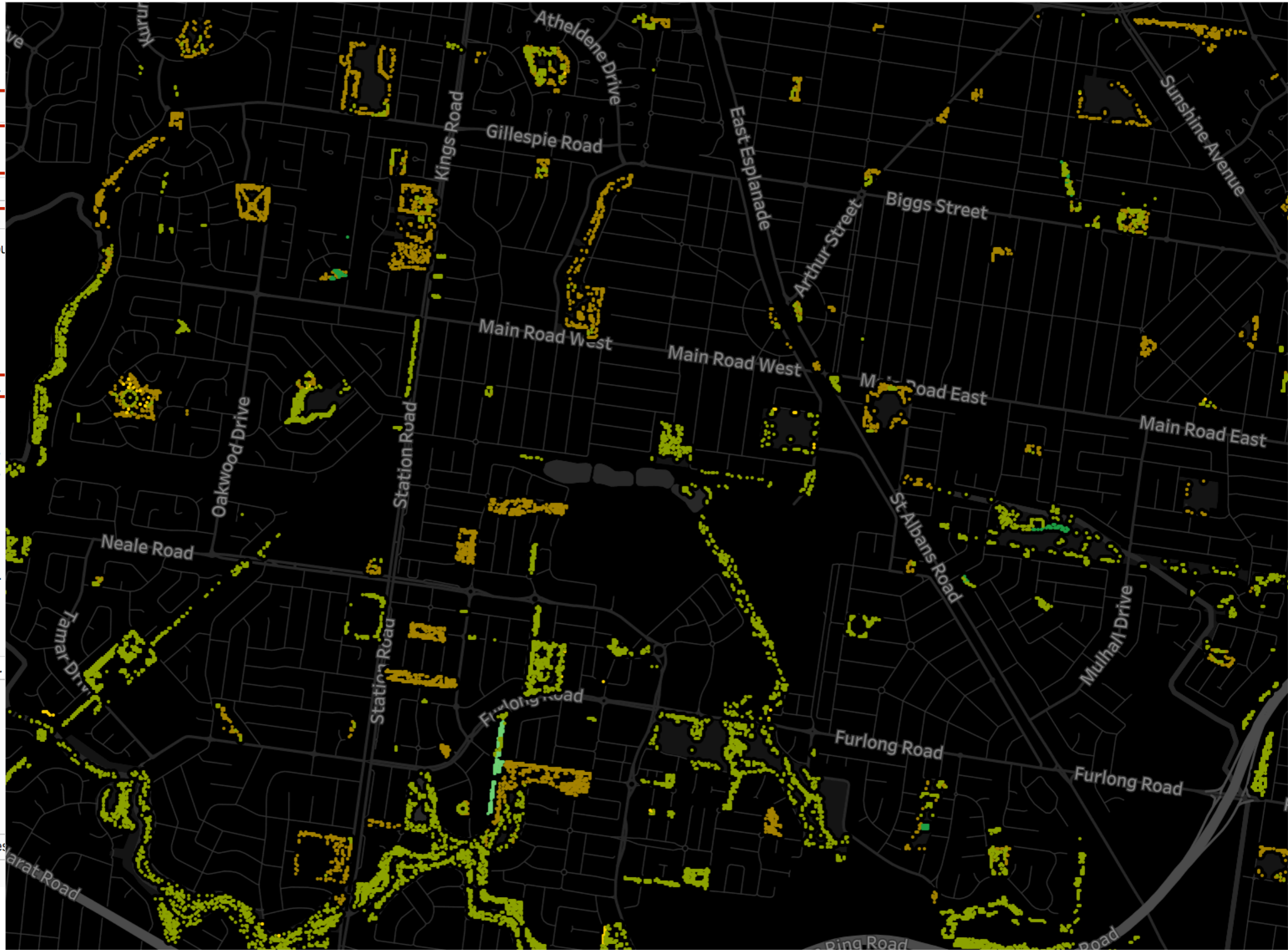
Repeat Background

Map Layers

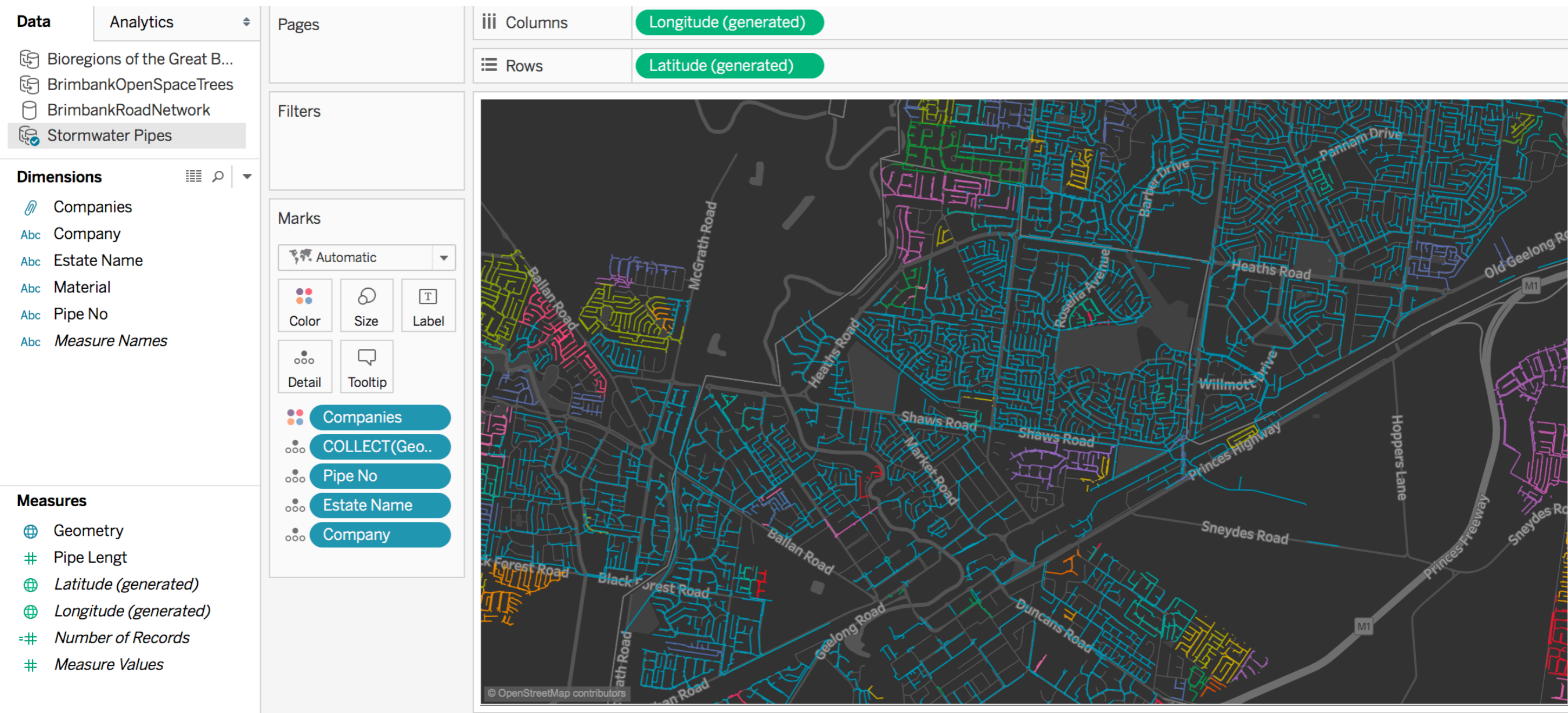
- Base
- Land Cover
- Coastline
- Streets and H...
- Light Country...
- Light Country...
- Country/Regi...
- Country/Regi...
- Light State/P...
- Light State/P...
- State/Provin...
- State/Provin...
- County Borde...
- County Name...

Data Layer

Layer:



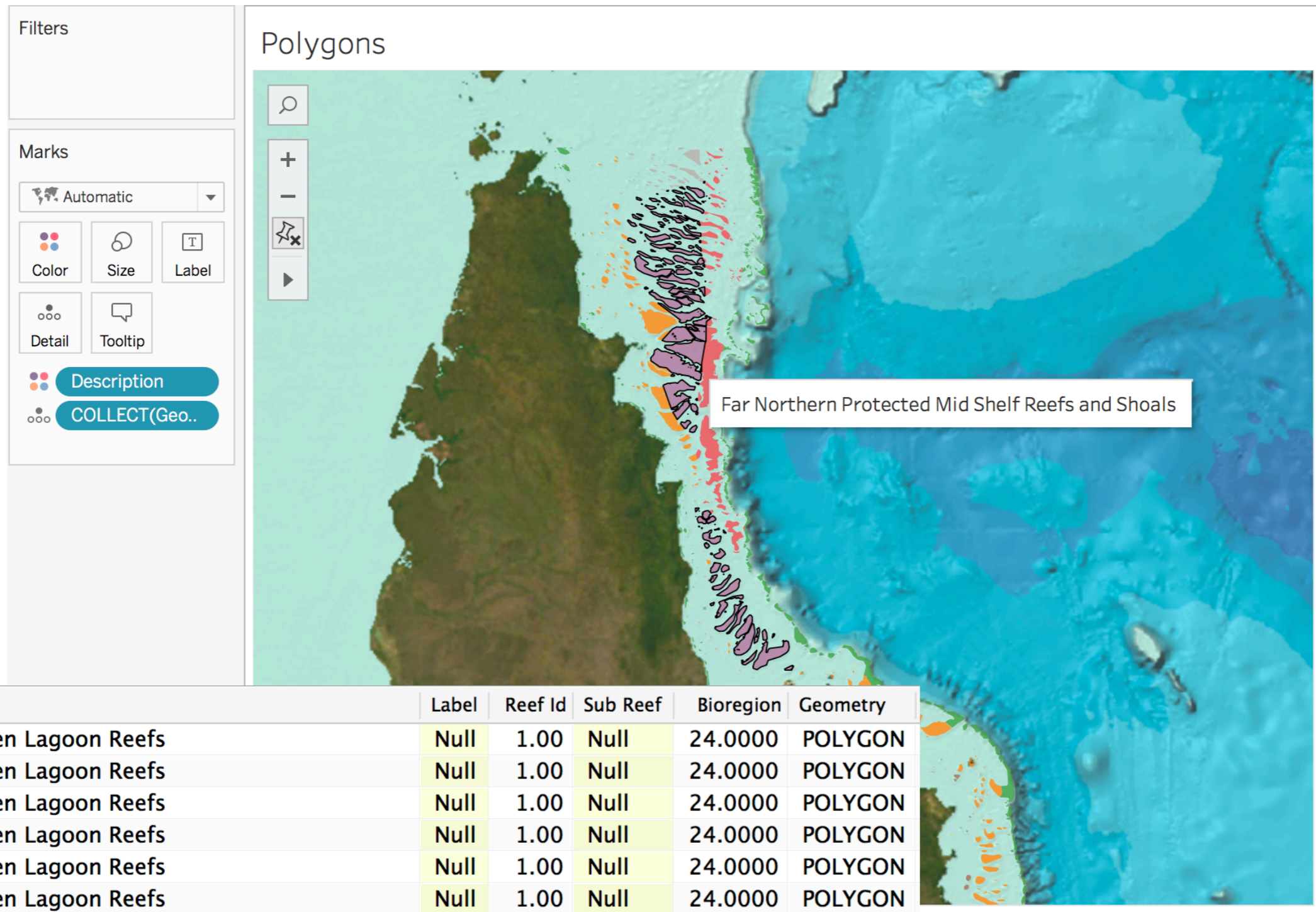
Spatial Files - Lines (from a shapefile)



Brimbank Open Space Trees

<https://data.gov.au/dataset/wyndham-city-stormwater>

Spatial Files - Polygons (from a shapefile)



Spatial Files - Lines (from a shapefile)

[Video Link](#)

The screenshot shows the Tableau Desktop interface with a connection to a spatial file named 'BrimbankRoadNetwork.shp'. The interface includes a menu bar (File, Data, Server, Window, Help), a toolbar with navigation icons, and a sidebar with 'Connections' and 'Files' sections. The main workspace displays the connection name and options for 'Live' or 'Extract' data. Below this, there are controls for 'Sort fields' (set to 'Data source order'), 'Show aliases', and 'Show hidden fields'. A table of fields is visible, with the following headers:

Rd Name Ty	Rd Name 00	Road Name	Road Type	RdType Abb	Left Local	Right Loca	Direction
------------	------------	-----------	-----------	------------	------------	------------	-----------

At the bottom of the interface, there is a 'Data Source' tab and a row of visualization type icons (Point Geometries, Line geometries, Polygons). The user's name 'Lari McEdward' is visible in the bottom right corner.

Spatial Files - Lines (from a shapefile)

[Video Link](#)

The screenshot shows the Tableau Desktop interface with a connection to a spatial file named 'BrimbankRoadNetwork.shp'. The interface includes a menu bar (File, Data, Server, Window, Help), a toolbar with navigation icons, and a sidebar with 'Connections' and 'Files' sections. The main workspace displays the connection name and options for 'Live' or 'Extract' connection. Below this, there are controls for 'Sort fields' (set to 'Data source order'), 'Show aliases', and 'Show hidden fields'. A table of fields is visible, with the following headers:

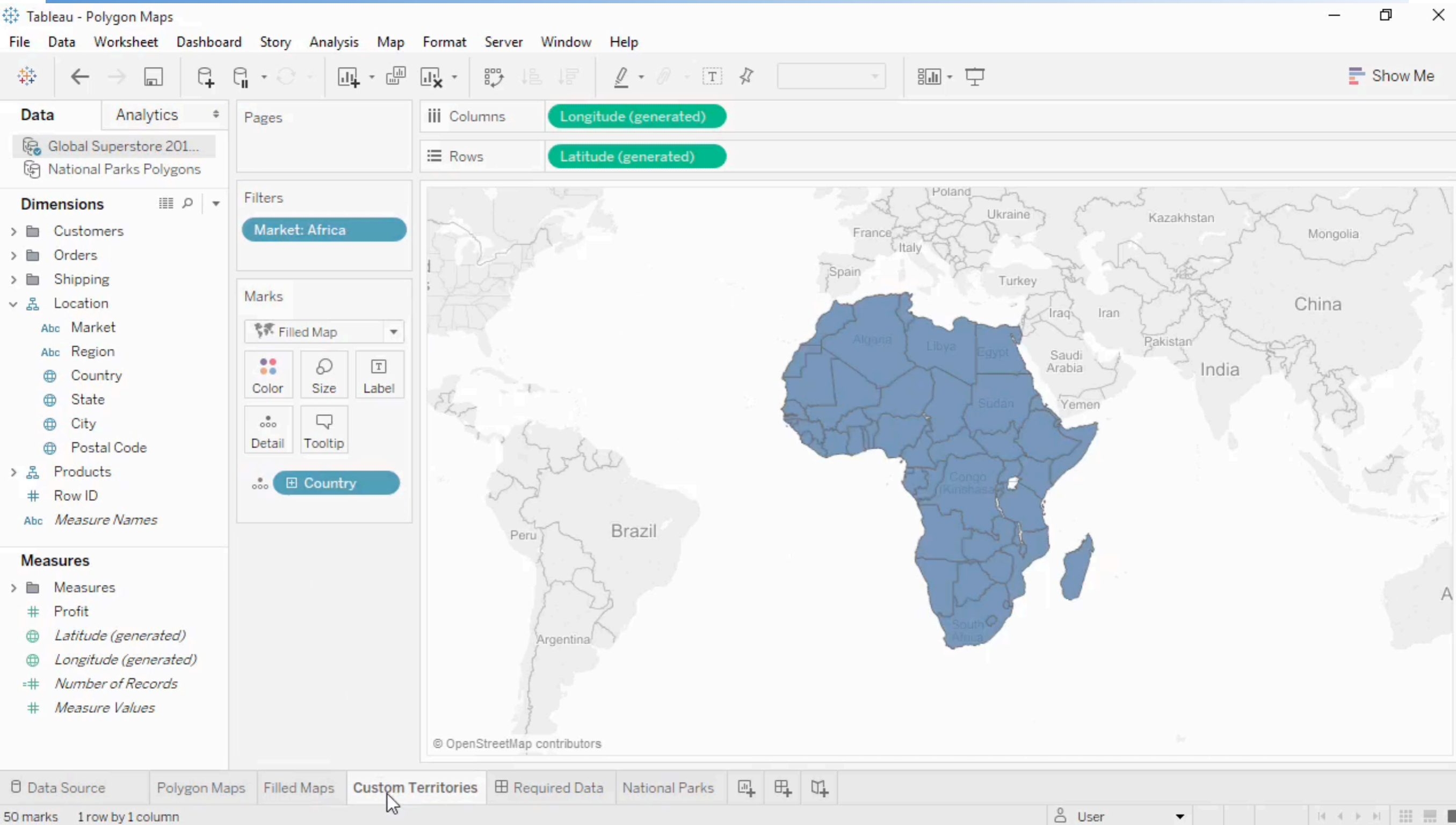
Rd Name Ty	Rd Name 00	Road Name	Road Type	RdType Abb	Left Local	Right Loca	Direction
------------	------------	-----------	-----------	------------	------------	------------	-----------

At the bottom of the interface, there is a 'Data Source' tab and a list of geometry types: Point Geometries, Line geometries, and Polygons. The user's name 'Lari McEdward' is visible in the bottom right corner.

More on Polygon Maps

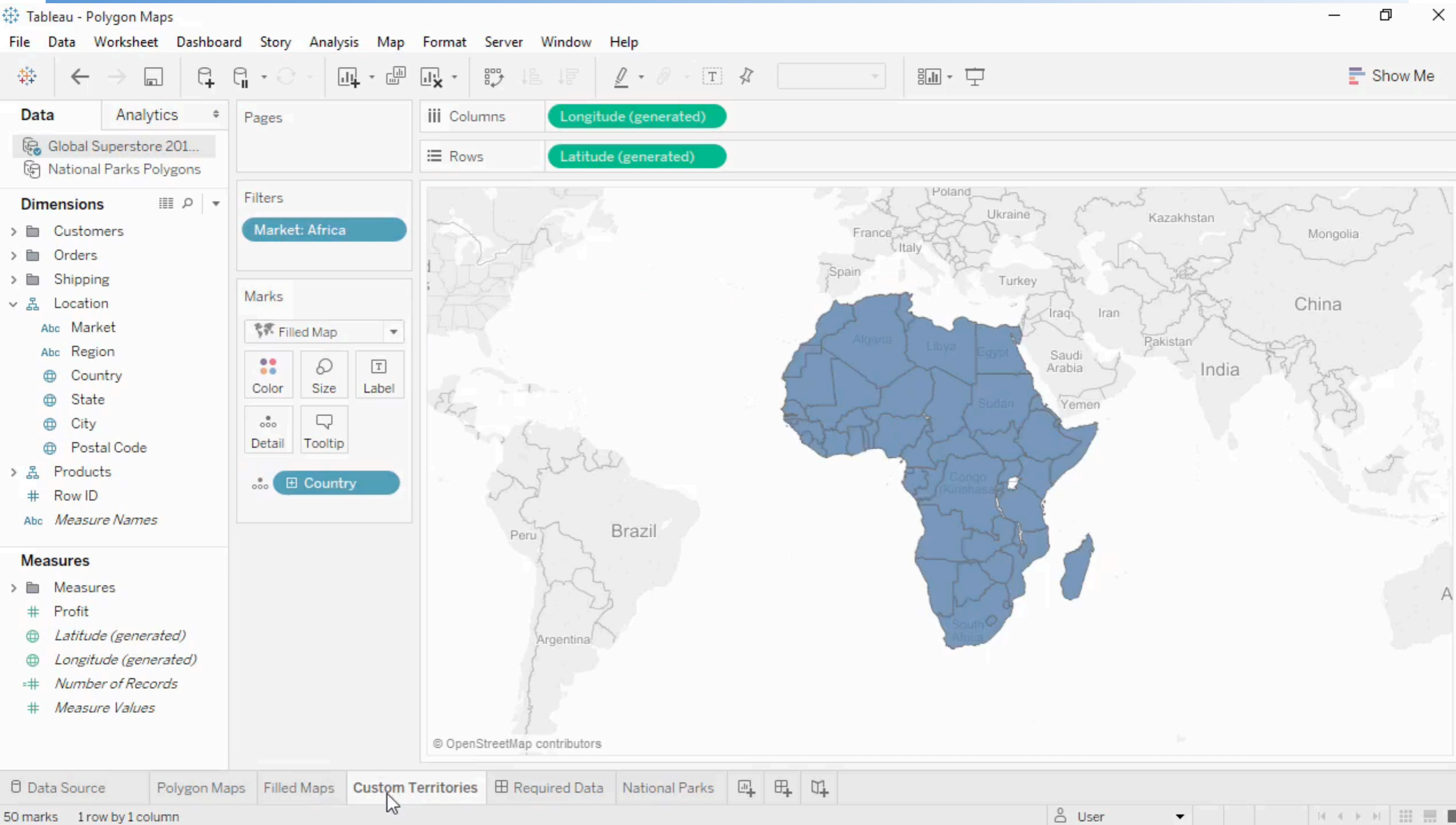
More on Polygon Maps - Grouping Areas

[Video Link](#)



More on Polygon Maps - Grouping Areas

[Video Link](#)



More - Non standard geographic polygons

[Video Link](#)

Tableau - Polygon Maps

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Dashboard Layout

Device Preview

Size
Custom size (1000 x 550)

Sheets

- Polygon Maps
- Filled Maps
- Custom Territories
- National Parks

Objects

- Horizontal
- Image
- Vertical
- Web Page
- Text
- Blank

Tiled Floating

Show dashboard title

State	Point Order	PolygonID	Latitude	Longitude
Florida	6463	14	30.82978	-81.904106
Florida	6464	14	30.74885	-81.726868
Florida	6465	14	30.75214	-81.660446
Florida	6466	14	30.7123	-81.609436

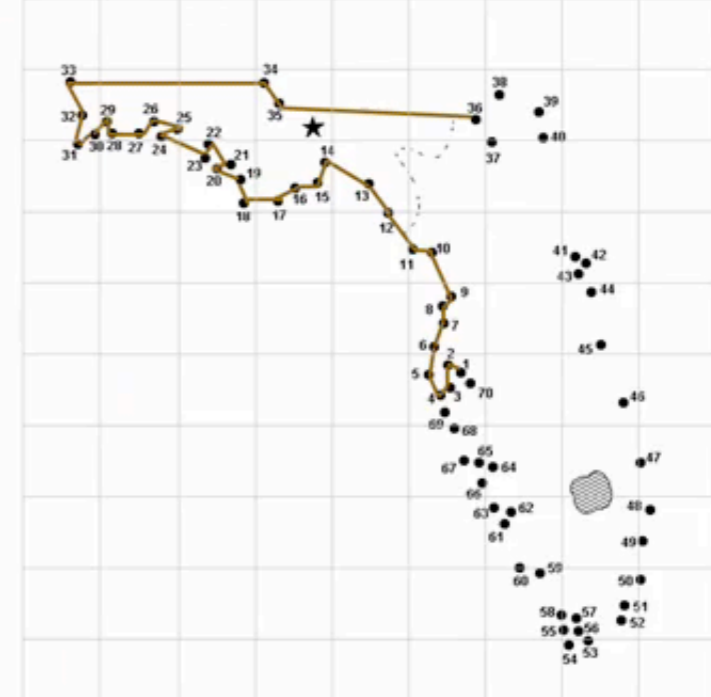



Image Credit: www.enchantedlearning.com/aeoagraphv/connectdots/mvsterv/states/florida/index.shtml

Data Source Polygon Maps Filled Maps Custom Territories Required Data National Parks

User

More - Non standard geographic polygons

[Video Link](#)

Tableau - Polygon Maps

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Dashboard Layout

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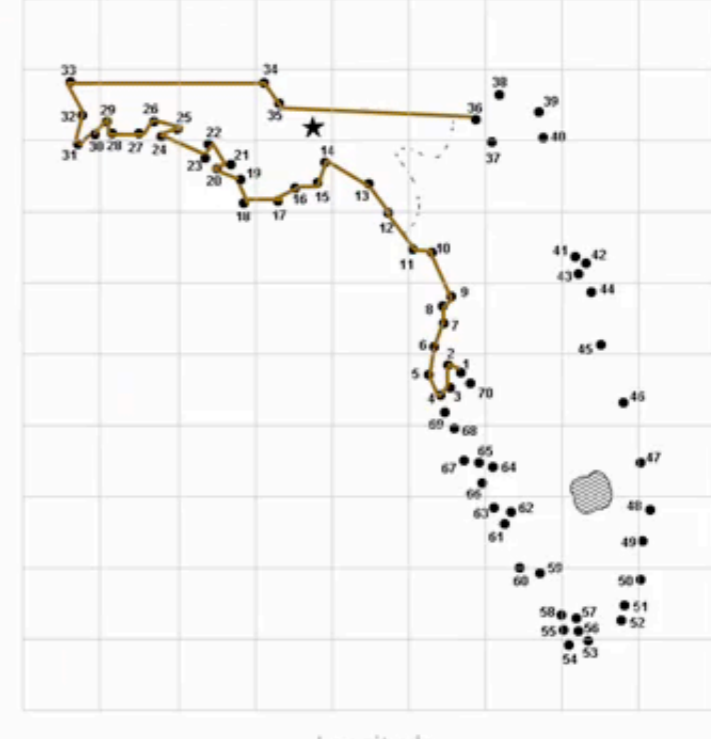



Image Credit: www.enchantedlearning.com/aeoagraphv/connectdots/mvsterv/states/florida/index.shtml

Data Source Polygon Maps Filled Maps Custom Territories **Required Data** National Parks

User

Background Images

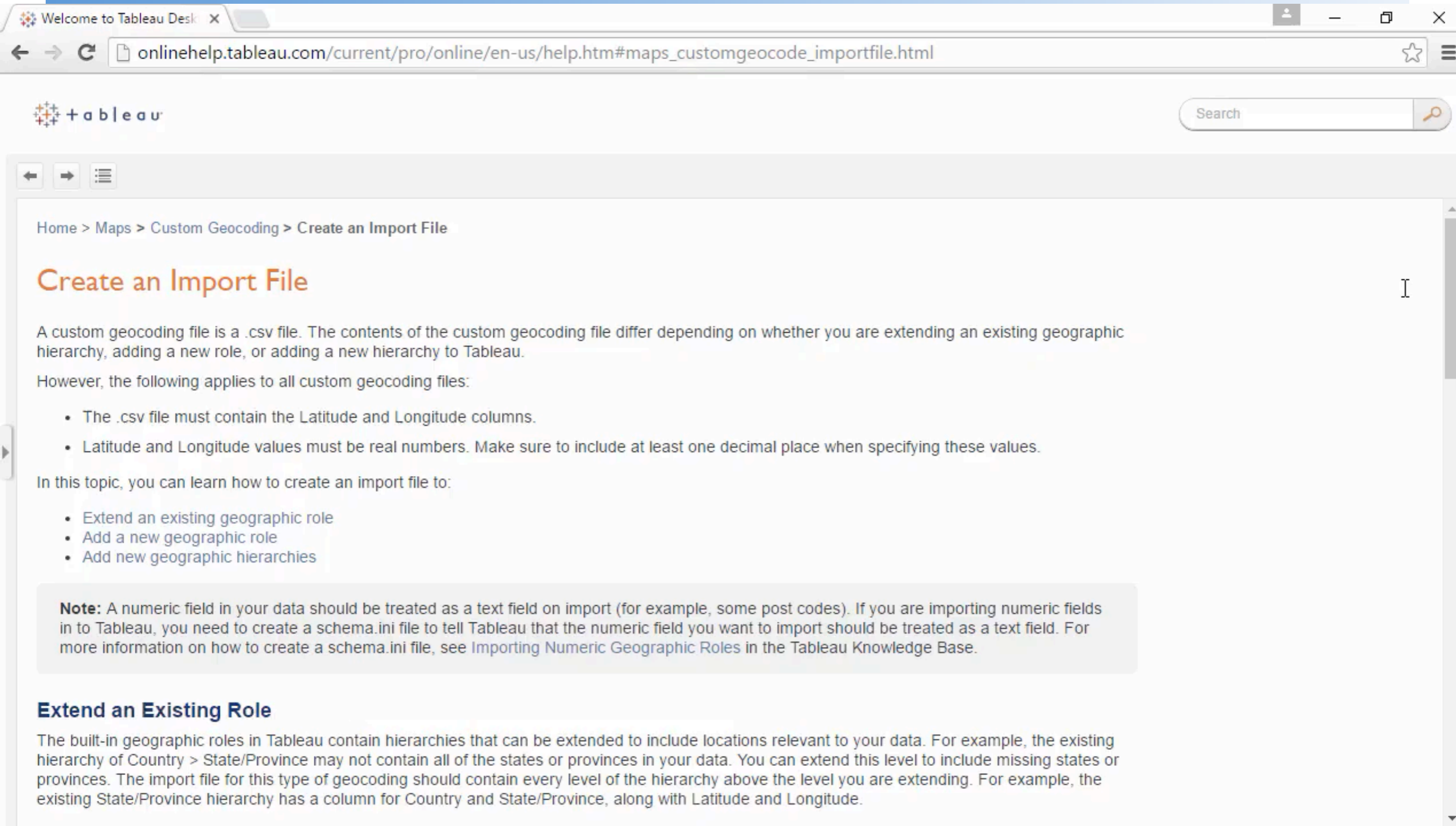
Background Images

[Video Link](#)

Hong Kong MTR.gif - Photos



Custom Geocoding



The screenshot shows a web browser window with the URL `onlinehelp.tableau.com/current/pro/online/en-us/help.htm#maps_customgeocode_importfile.html`. The page title is "Welcome to Tableau Desk". The main content area has a breadcrumb trail: "Home > Maps > Custom Geocoding > Create an Import File". The main heading is "Create an Import File". The text explains that a custom geocoding file is a .csv file and that its contents depend on whether you are extending an existing geographic hierarchy, adding a new role, or adding a new hierarchy to Tableau. It then lists requirements for the .csv file: it must contain Latitude and Longitude columns, and the values must be real numbers with at least one decimal place. Below this, it lists three topics: "Extend an existing geographic role", "Add a new geographic role", and "Add new geographic hierarchies". A note states that numeric fields should be treated as text fields on import, and provides a link to "Importing Numeric Geographic Roles in the Tableau Knowledge Base". The page also has a search bar and navigation icons.

Home > Maps > Custom Geocoding > Create an Import File

Create an Import File

A custom geocoding file is a .csv file. The contents of the custom geocoding file differ depending on whether you are extending an existing geographic hierarchy, adding a new role, or adding a new hierarchy to Tableau.

However, the following applies to all custom geocoding files:

- The .csv file must contain the Latitude and Longitude columns.
- Latitude and Longitude values must be real numbers. Make sure to include at least one decimal place when specifying these values.

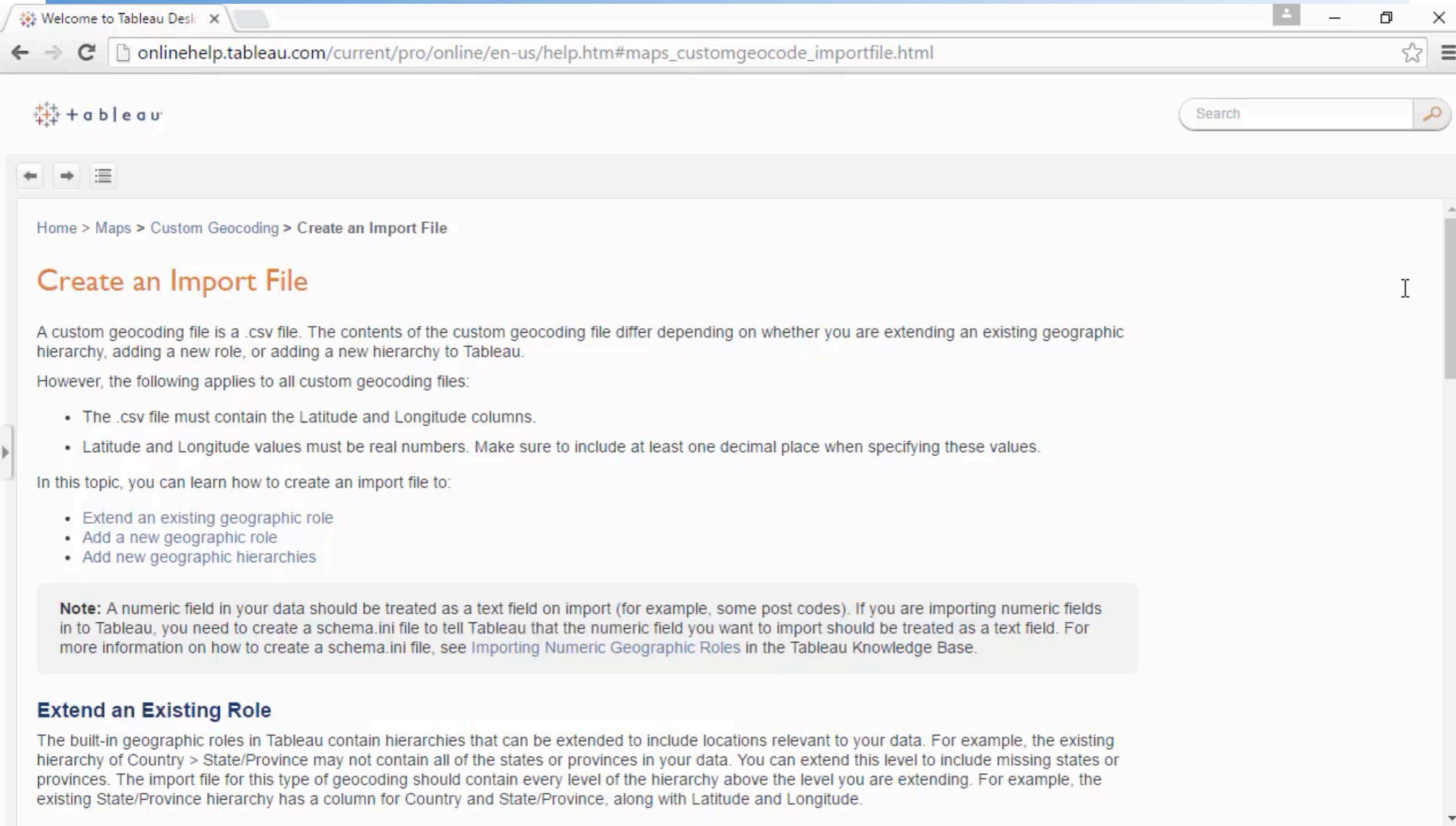
In this topic, you can learn how to create an import file to:

- Extend an existing geographic role
- Add a new geographic role
- Add new geographic hierarchies

Note: A numeric field in your data should be treated as a text field on import (for example, some post codes). If you are importing numeric fields in to Tableau, you need to create a schema.ini file to tell Tableau that the numeric field you want to import should be treated as a text field. For more information on how to create a schema.ini file, see [Importing Numeric Geographic Roles in the Tableau Knowledge Base](#).

Extend an Existing Role

The built-in geographic roles in Tableau contain hierarchies that can be extended to include locations relevant to your data. For example, the existing hierarchy of Country > State/Province may not contain all of the states or provinces in your data. You can extend this level to include missing states or provinces. The import file for this type of geocoding should contain every level of the hierarchy above the level you are extending. For example, the existing State/Province hierarchy has a column for Country and State/Province, along with Latitude and Longitude.



The screenshot shows a web browser window with the URL `onlinehelp.tableau.com/current/pro/online/en-us/help.htm#maps_customgeocode_importfile.html`. The page title is "Create an Import File" and the breadcrumb is "Home > Maps > Custom Geocoding > Create an Import File". The main content explains that a custom geocoding file is a .csv file and lists requirements for latitude and longitude columns. It also provides a list of actions to learn more about creating an import file.

Home > Maps > Custom Geocoding > Create an Import File

Create an Import File

A custom geocoding file is a .csv file. The contents of the custom geocoding file differ depending on whether you are extending an existing geographic hierarchy, adding a new role, or adding a new hierarchy to Tableau.

However, the following applies to all custom geocoding files:

- The .csv file must contain the Latitude and Longitude columns.
- Latitude and Longitude values must be real numbers. Make sure to include at least one decimal place when specifying these values.

In this topic, you can learn how to create an import file to:

- Extend an existing geographic role
- Add a new geographic role
- Add new geographic hierarchies

Note: A numeric field in your data should be treated as a text field on import (for example, some post codes). If you are importing numeric fields in to Tableau, you need to create a schema.ini file to tell Tableau that the numeric field you want to import should be treated as a text field. For more information on how to create a schema.ini file, see [Importing Numeric Geographic Roles](#) in the Tableau Knowledge Base.

Extend an Existing Role

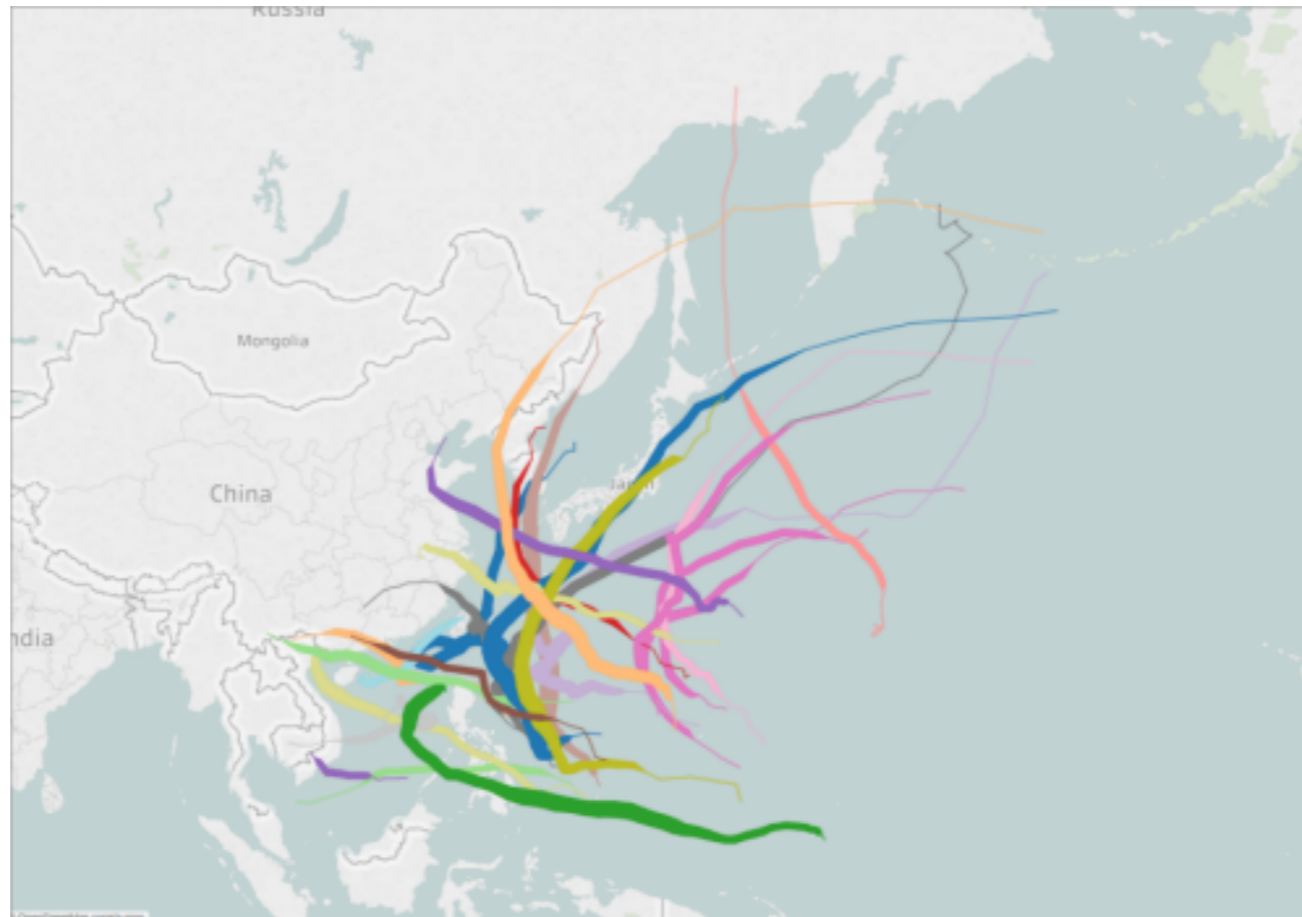
The built-in geographic roles in Tableau contain hierarchies that can be extended to include locations relevant to your data. For example, the existing hierarchy of Country > State/Province may not contain all of the states or provinces in your data. You can extend this level to include missing states or provinces. The import file for this type of geocoding should contain every level of the hierarchy above the level you are extending. For example, the existing State/Province hierarchy has a column for Country and State/Province, along with Latitude and Longitude.

Training Examples

Create Maps that Show a Path Over Time in Tableau

- Check this link:

- ◆ https://onlinehelp.tableau.com/current/pro/desktop/en-us/maps_howto_flow.htm



- ◆ Check this workbook: <http://vid.ssdi.di.fct.unl.pt/resources/Workbooks/Create-Flow-Maps-in-Tableau-Example-Workbook.twbx>

Create Maps that Show a Path Over Time in Tableau

- **Check this link:**

- ◆ **https://onlinehelp.tableau.com/current/pro/desktop/en-us/maps_howto_flow.htm**

- **Go further:**

- ◆ **Compare the storms by setting the time to the first day / time of each storm**
- ◆ **Try a map visualization that includes the date information**

OpenFlights Data Explorer

- Check this link:

- ◆ <https://public.tableau.com/en-us/s/blog/2015/07/taking-path-function>



THANK YOU!

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