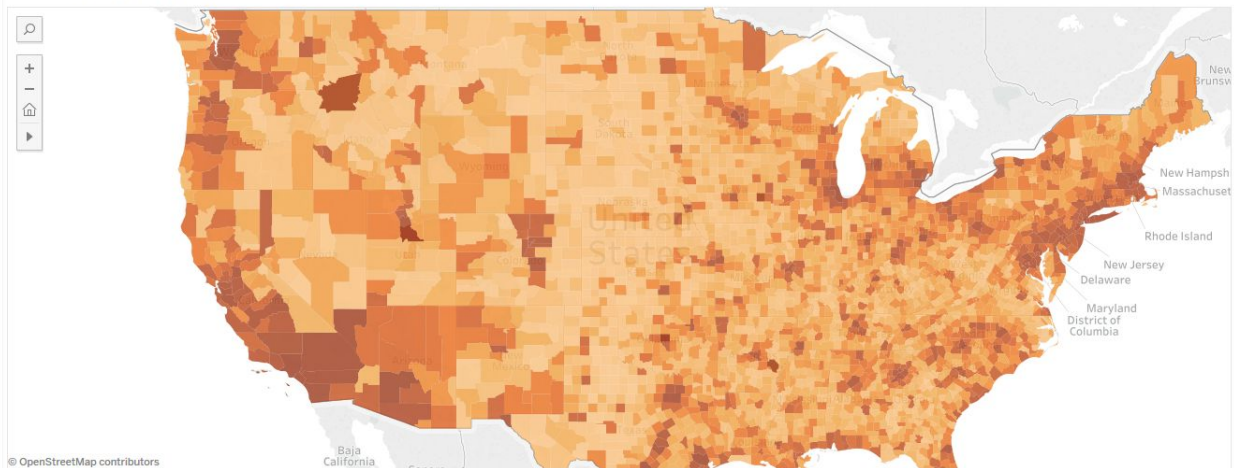


Step by Step Guide in Creating a Heat Map

US Counties by Births in 2016



1. Download/save/check if dataset is available locally on your computer

<https://drive.google.com/open?id=1mHRpDjTElQVo3QnAjNjDyRTQNQIPyHjKe7heJGejTjw>

2. Open Tableau and connect dataset to a new project

The screenshot shows the Tableau Public interface. On the left, the 'Connections' pane shows 'Federal_Coun...on_Estimates' (Microsoft Excel) connected. Below it, the 'Sheets' pane shows 'Population Es...tes 2010-2016' and 'Variable Descriptions'. The main view displays a preview of the 'Population Estimates 2010-2016' dataset. The preview table has columns for 'Population Estimates 2010-2016' and 'Population Estimates 2010-2016'. The preview table shows data for various states and counties, including Alabama, Autauga County, Baldwin County, Barbour County, Bibb County, Blount County, and Bullock County.

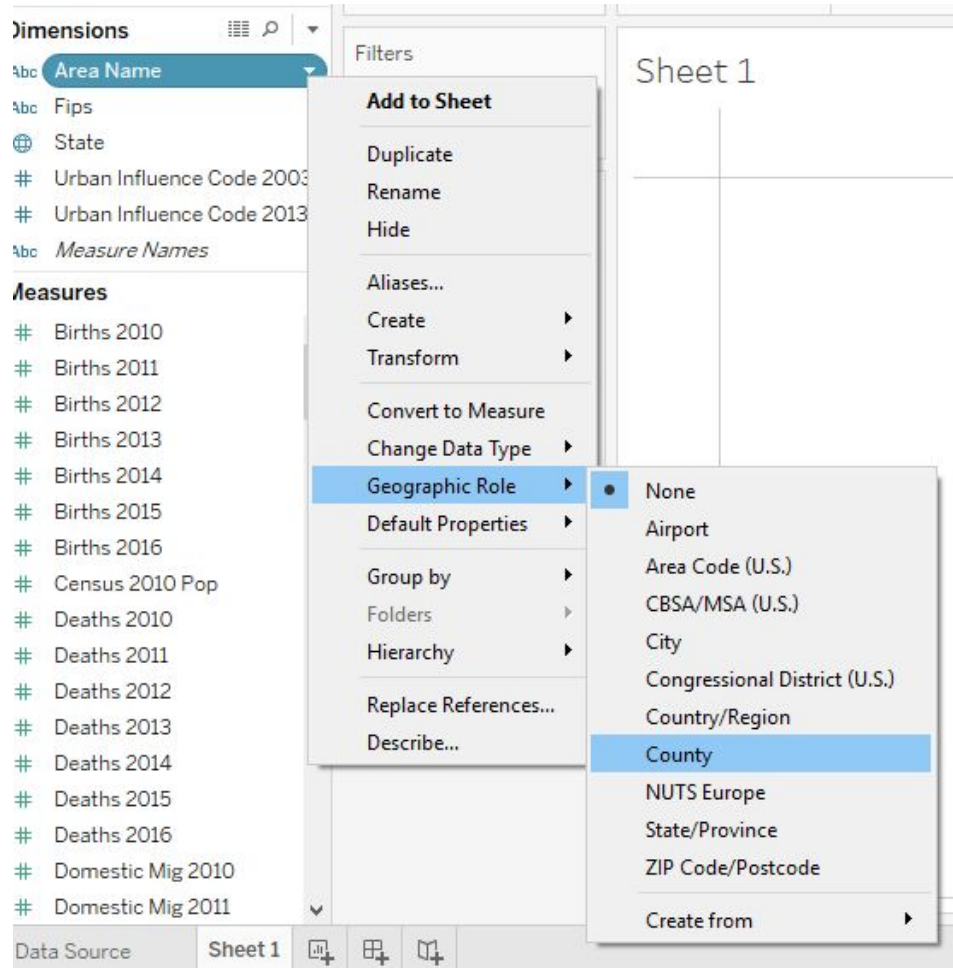
Population Estimates 2010-2016	Population Estimates 2010-2016	Population Estimates 2010-2016	Population Estimates 2010-2016	Population Estimates 2010-2016	Population Estimates 2010-2016	Population Estimates 2010-2016	Population Estimates 2010-2016	Population Estimates 2010-2016
00000	US	United States	null	null	null	null	null	null
01000	AL	Alabama	null	null	null	null	null	null
01001	AL	Autauga County	2	2	2	2	2	0
01003	AL	Baldwin County	4	3	5	2	5	5
01005	AL	Barbour County	6	6	6	6	6	3
01007	AL	Bibb County	1	1	1	1	1	0
01009	AL	Blount County	1	1	1	1	1	0
01011	AL	Bullock County	6	6	6	6	6	2

3. Go to worksheet and double click title to name Graph

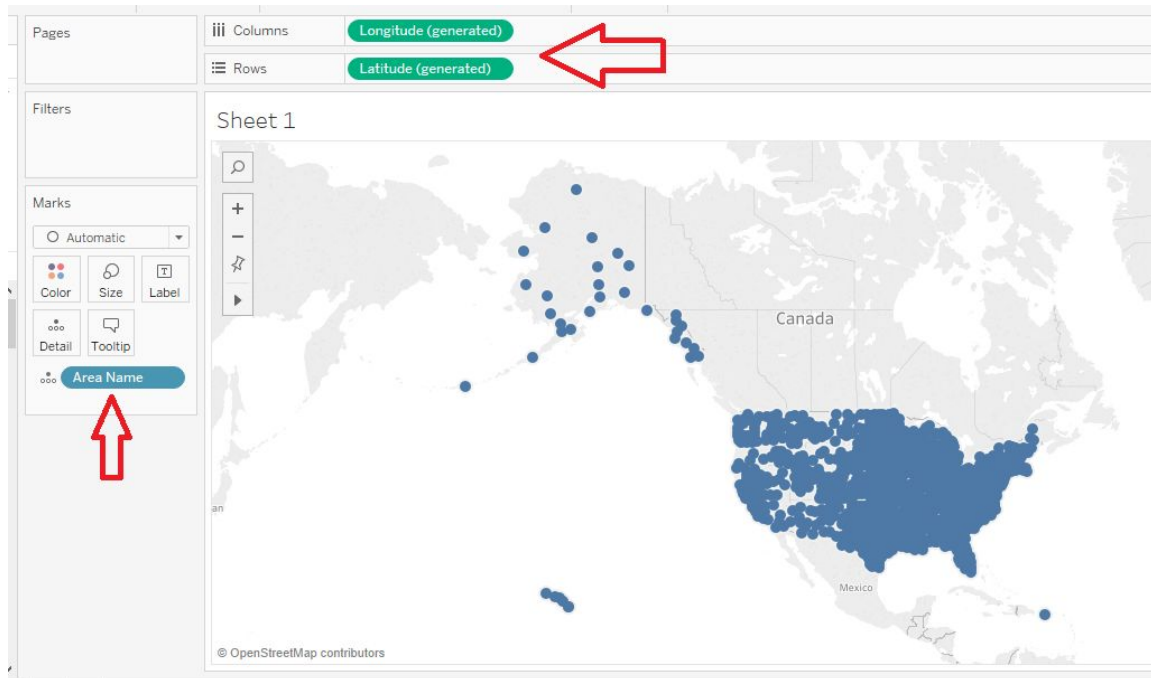
a. US Counties by Births in 2016

Sheet 1

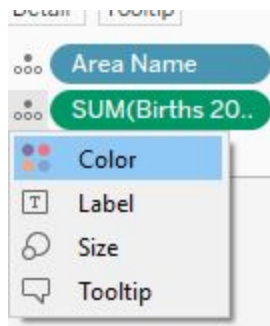
4. We will be placing markers by counties, which are listed under “Area Name” field. Change this to be recognized as a geo feature, county.



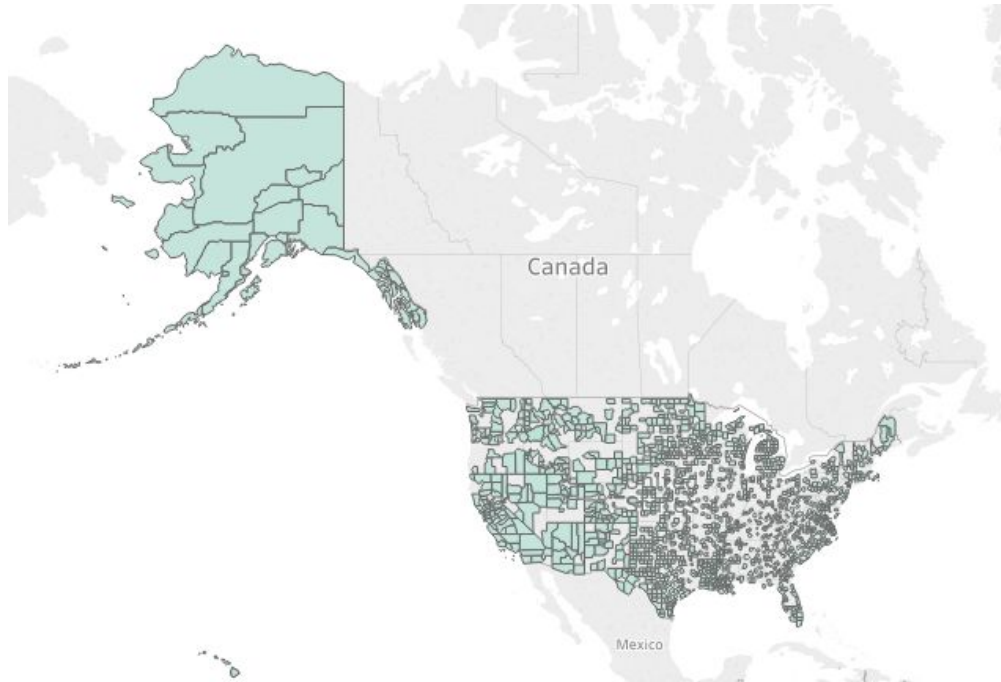
5. Now drag the Area Name field down to your marks shelf. Make sure Area Name is assigned to details of the marker. Because this field is assigned a geo role, longitude and latitude information will be generated for you under columns and rows.



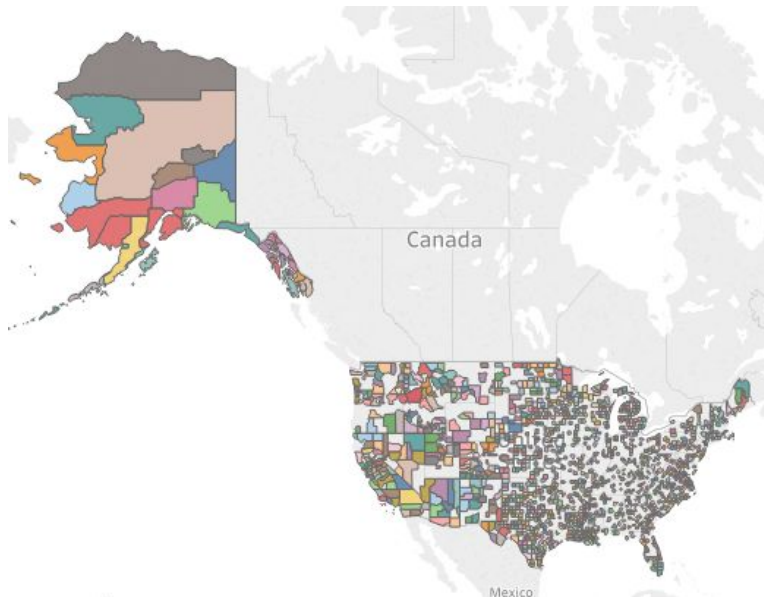
6. We want each county to be colored by the number of births in 2016. Drag Births (2016) measure down to your markers shelf, and assign it to color.



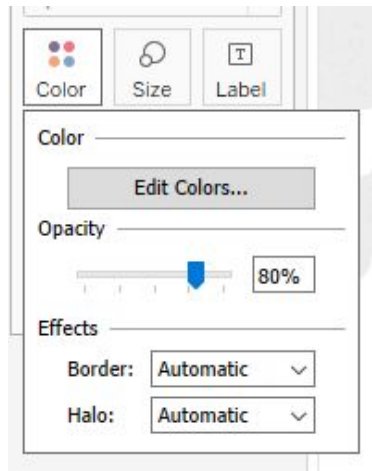
7. Now your map may look like the image below; however, the color is not differing between counties.



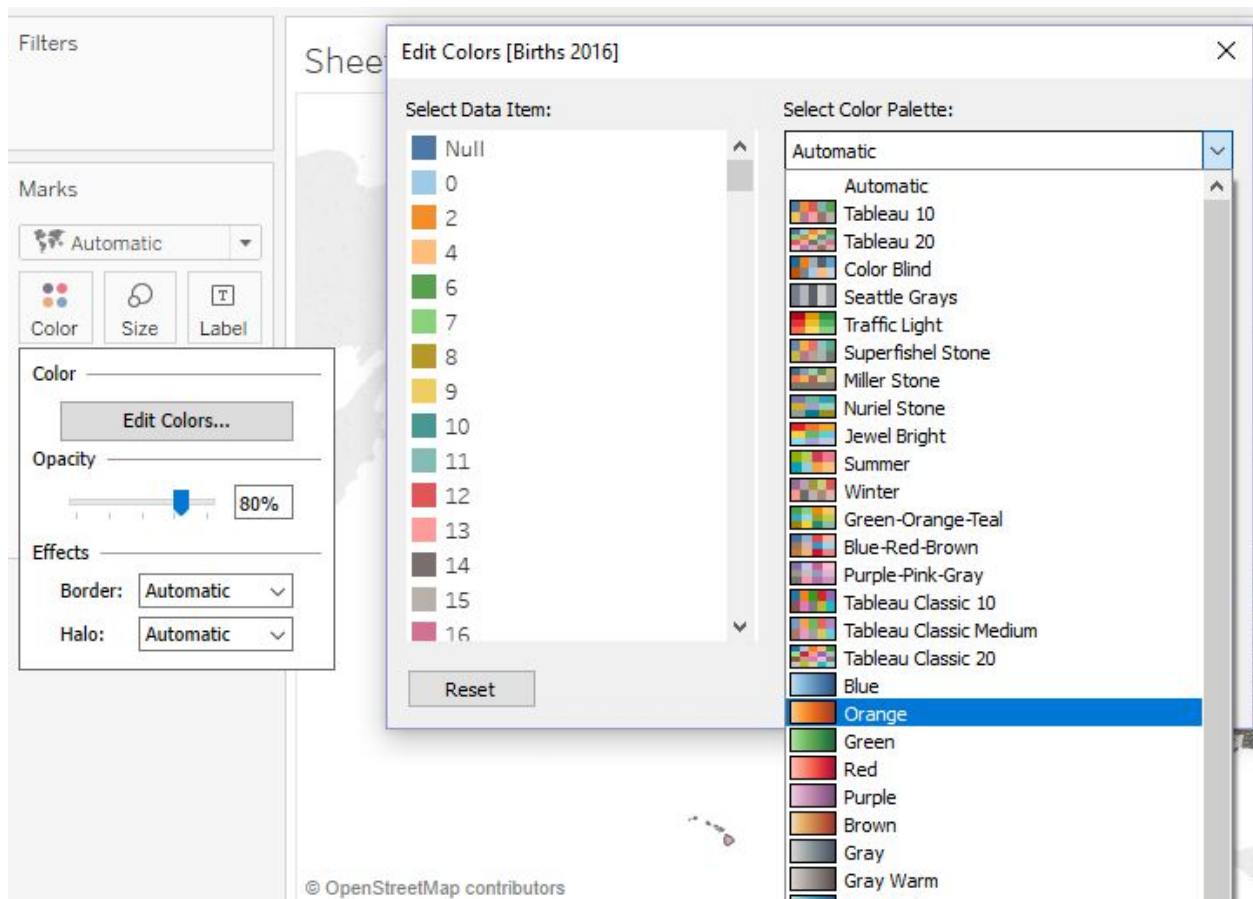
To fix this hover over the Births (2016) field you just added to your marks shelf and click on the drop down arrow. From there select discrete.



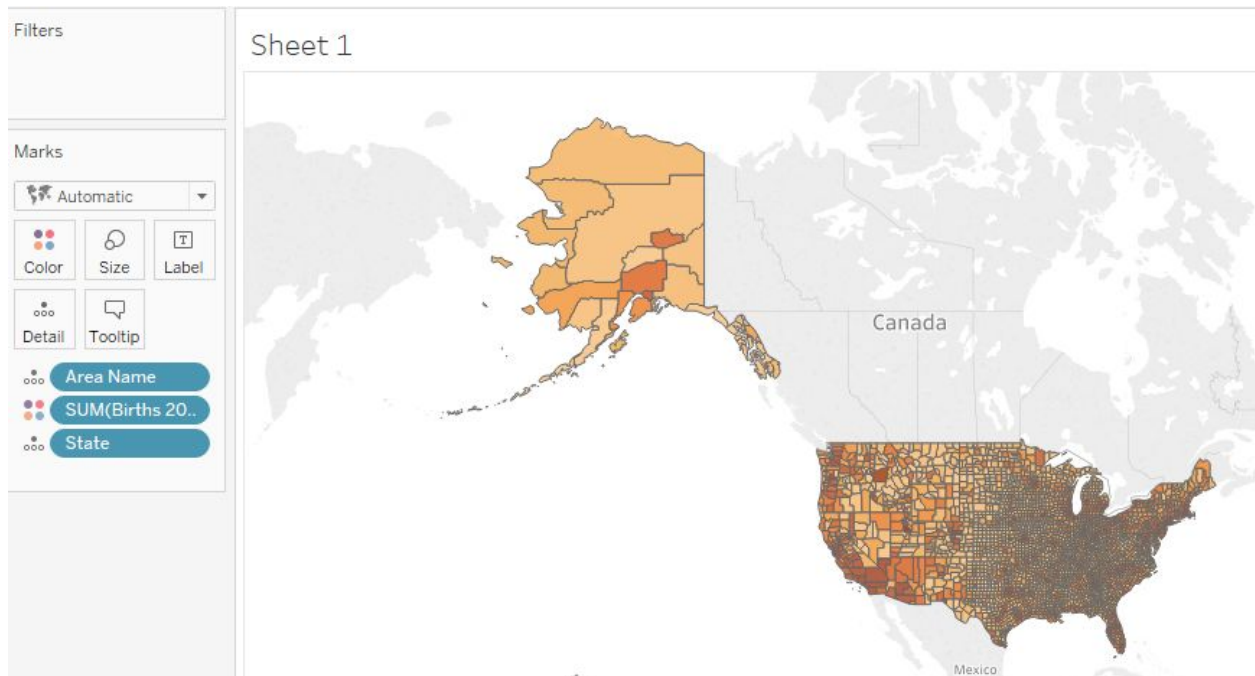
8. Now each county is given a color based on the exact number of births in 2016; however, we will now change the color palette in order to have a continuous range of colors encode the data in an easier to understand fashion. Click on the Color button in your marks shelf.



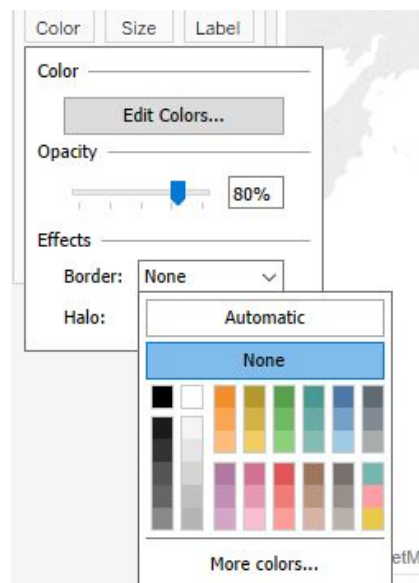
9. Select Edit Colors and change your palette to be Orange. Assign and apply this palette then select OK.



10. Each county is colored appropriately; however, many counties are not included in this dataset, creating empty spaces in your heat map. To fix this find the State field under dimensions and drag it to your marks shelf. This will color each state as well.

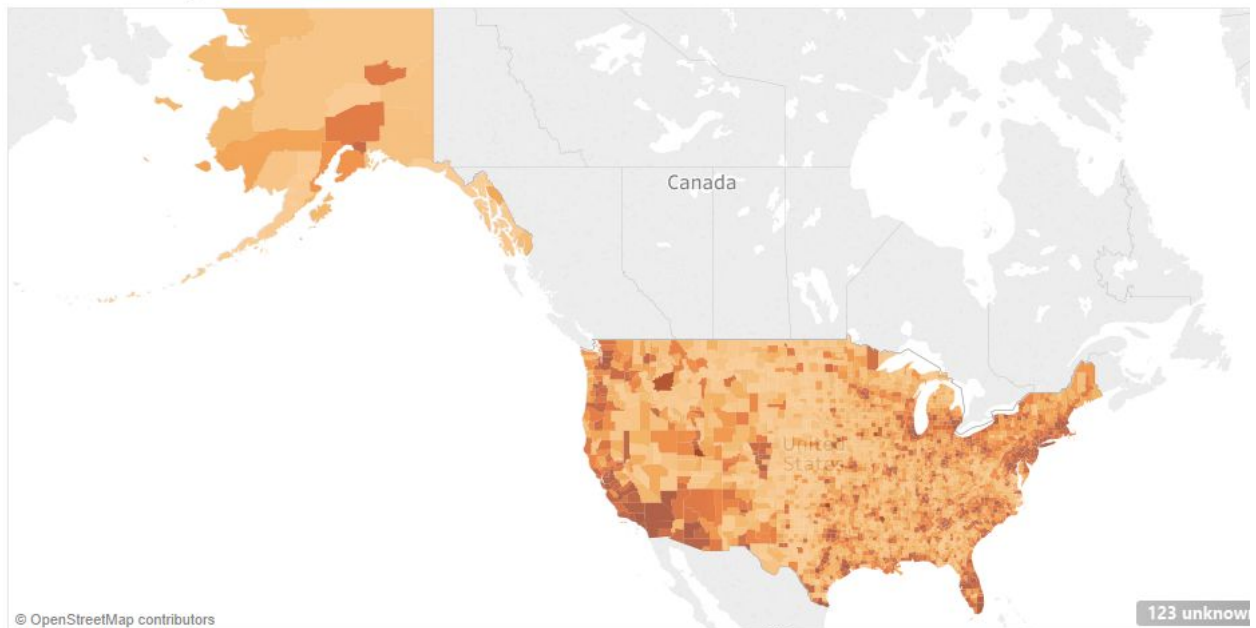


11. Now we will remove the borders around each county. Click on the Color button under the marks shelf. Hover down to the Border dropdown menu and select “none”

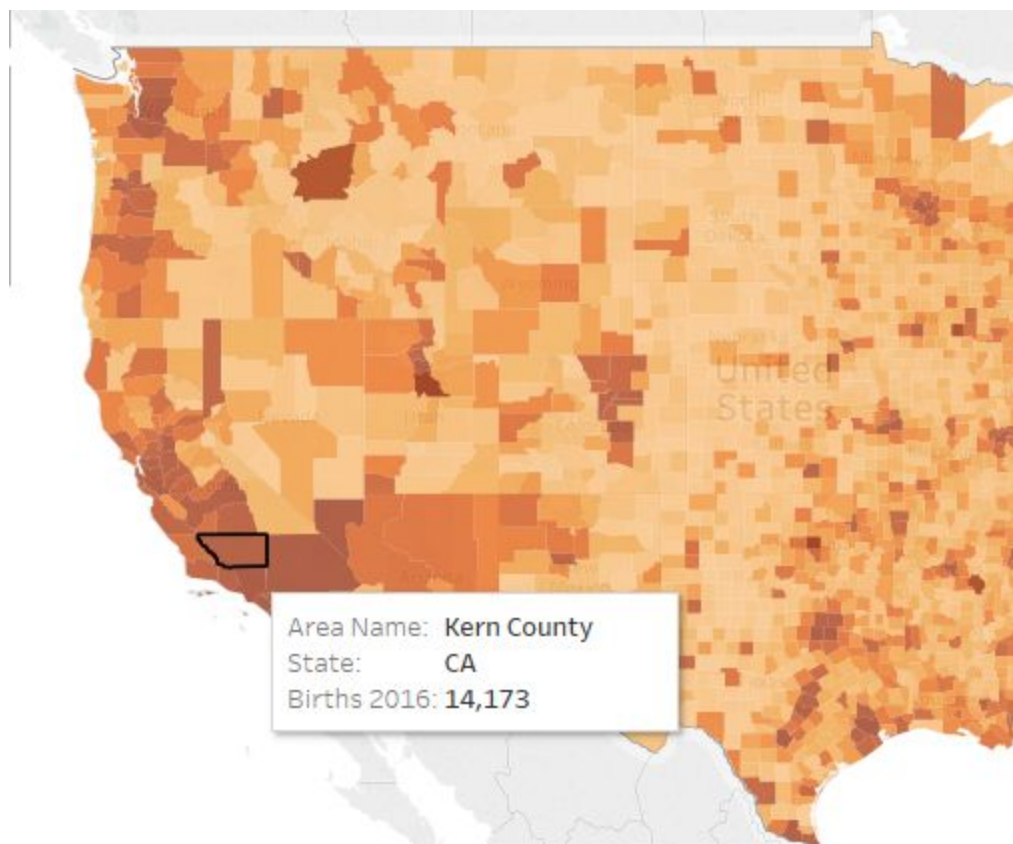


12. Now your map should look something like the image below.

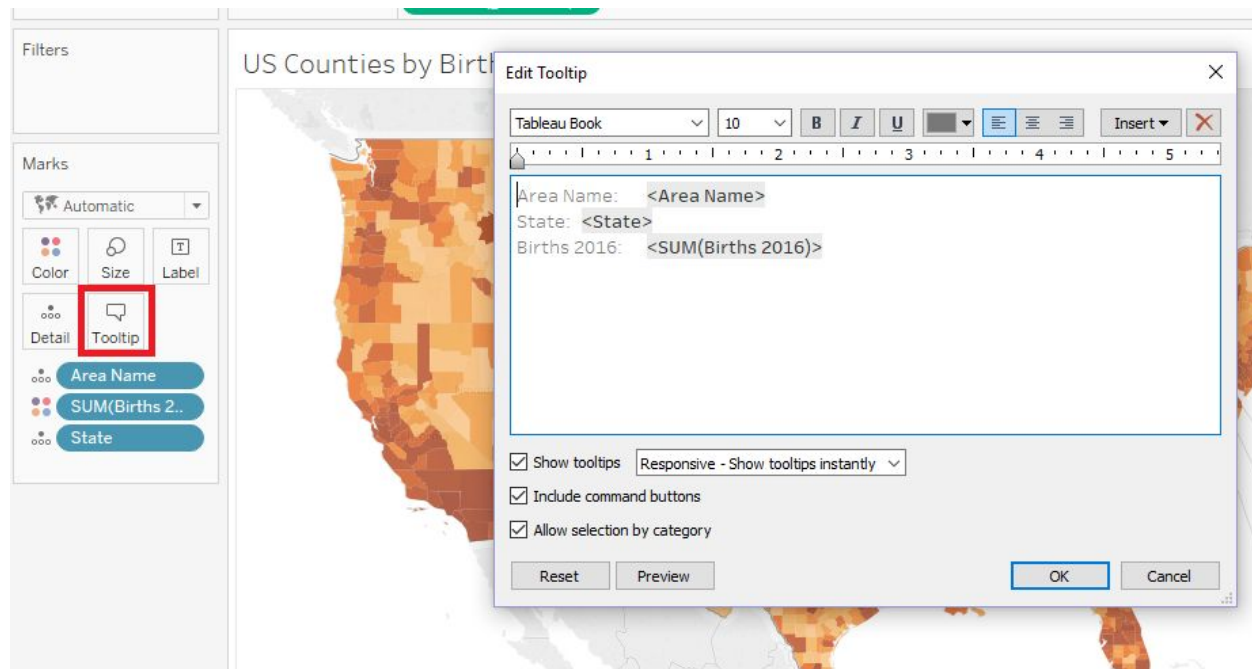
US Counties by Births in 2016



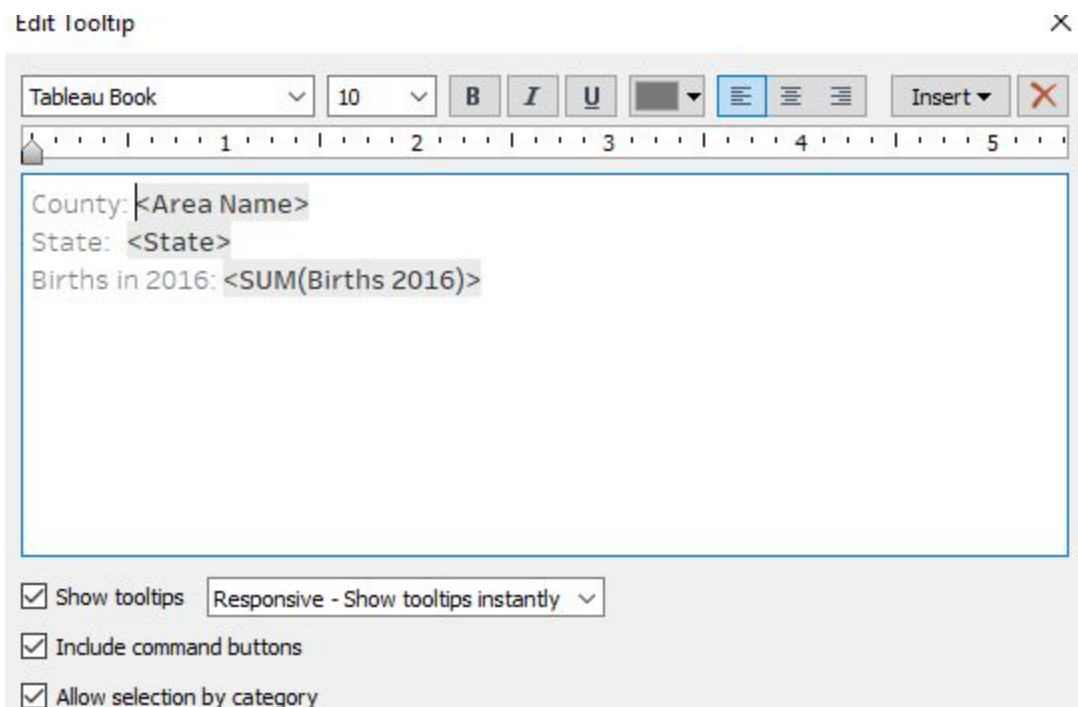
13. Currently when you hover over a county, a tooltip appears with the following information.



14. Let's change that to say "County" instead of "Area Name" and "Births in 2016" instead of "Births 2016". In your marks shelf select Tooltip. This will open a popup window.

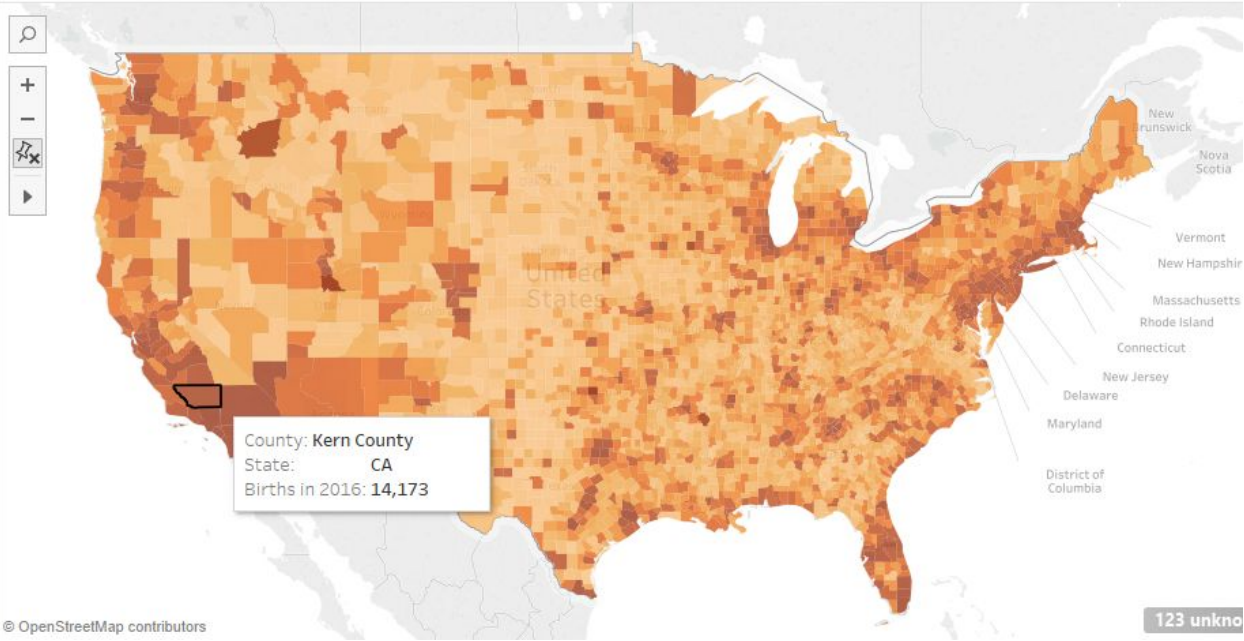


15. Change the text in the text field to look like the following, then select OK.



16. Now your tooltip should reflect these changes.

US Counties by Births in 2016



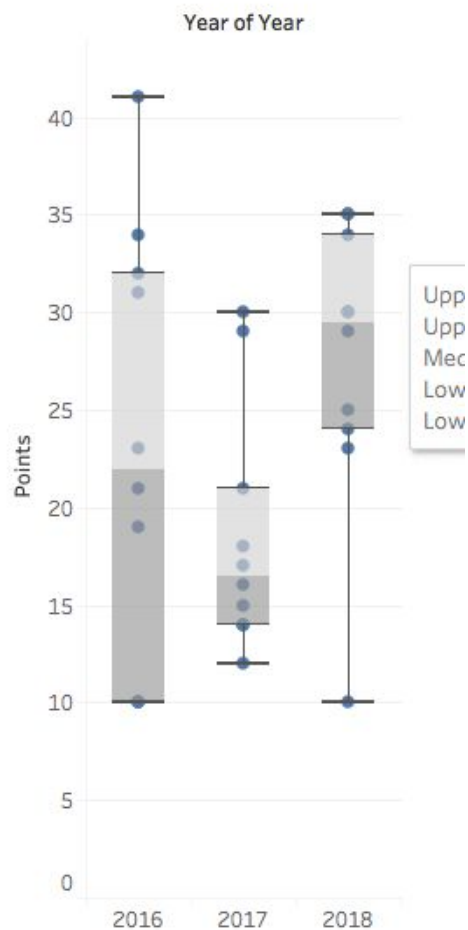
Step by Step Guide in Creating Box Plot

1. Save lbj.xlsx locally

https://drive.google.com/file/d/13emLeOhB7xx3qATLLlcCkIk7_0JKvmiB/view?usp=sharing

2. Connect Data Source to Excel
3. Click Analysis at top and click aggregate measures to uncheck it
4. Convert Year from measure to attribute and make sure it is discrete
5. Drag Year to COLUMNS
6. Drag Points to ROWS (make sure points data is continuous)
7. Click Show Me and select Box Plot

Sheet 1



Using Dashboard

1. Click new dashboard icon
2. Drag created sheets to dashboard area

Step by Step Guide in Creating Tree Map

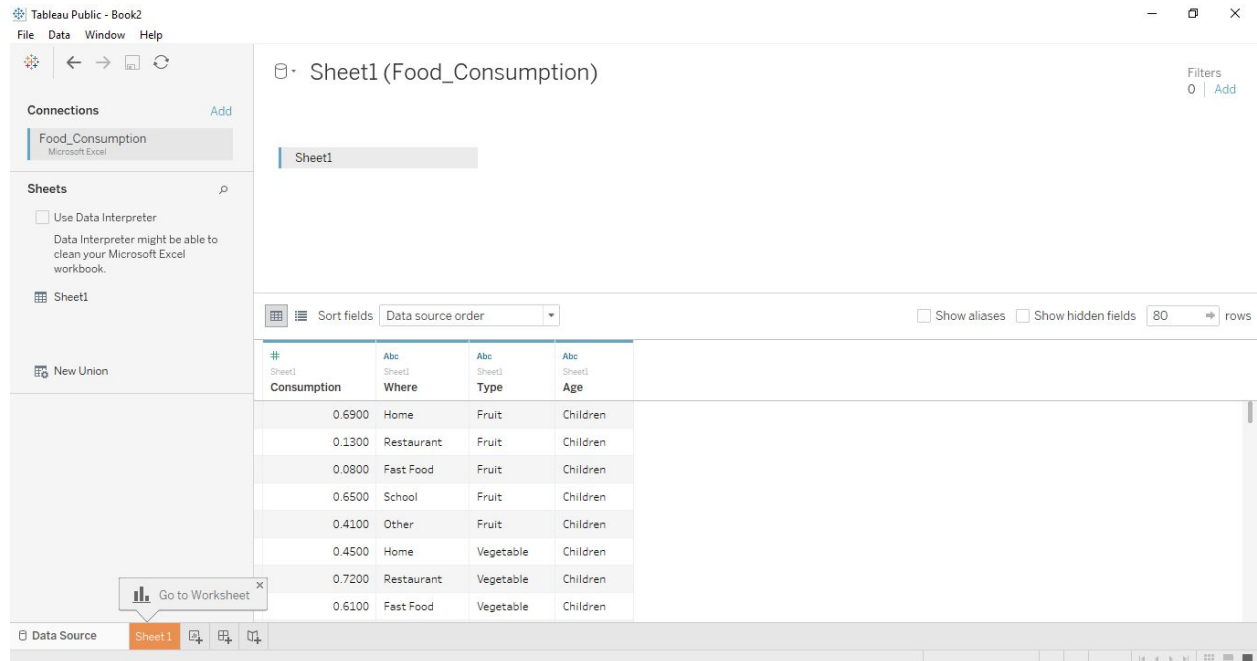
Food Density Consumption By Place



1. Download/save/check if dataset is available locally on your computer

https://drive.google.com/open?id=1A9xk_SmvuzTdNn_X7IXJngvX_zVUX4s8CNyBYVOaaqc

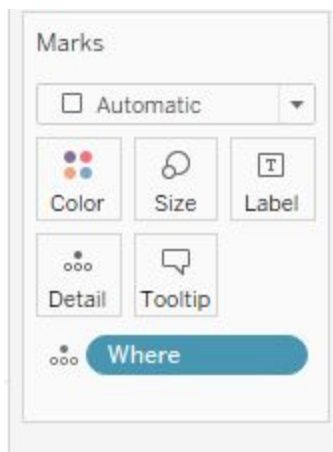
2. Open Tableau and connect dataset to a new project.



3. Go to worksheet and double click title to name Graph
 - a. Food Density Consumption By Place



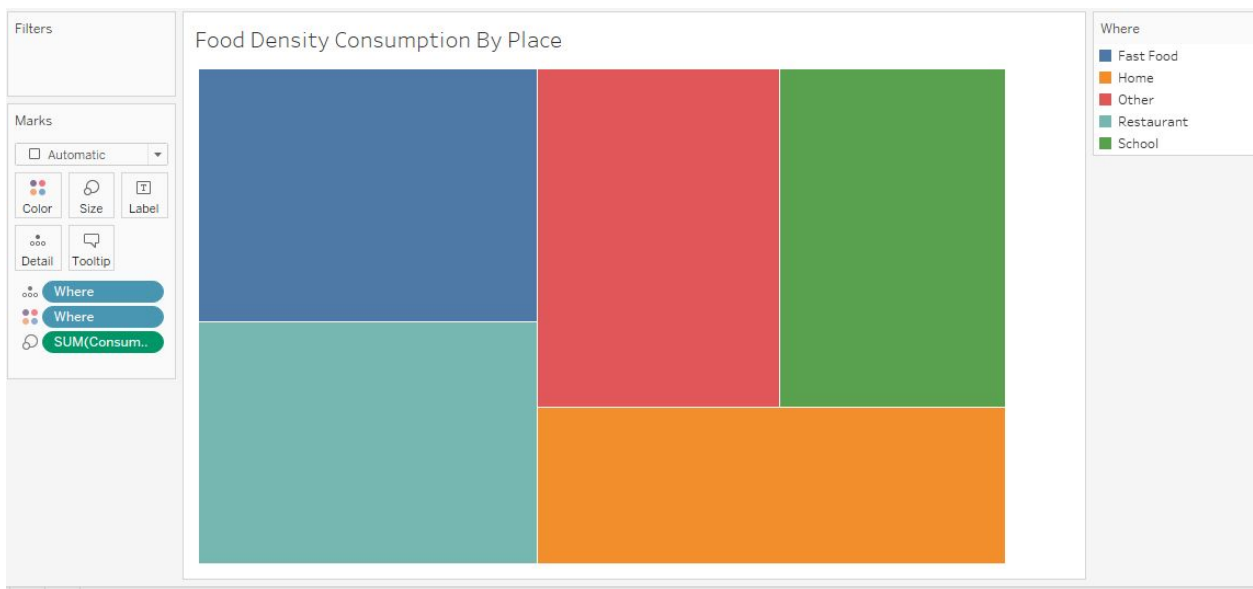
4. Drag the Where field to the marks shelf and ensure its set to details.



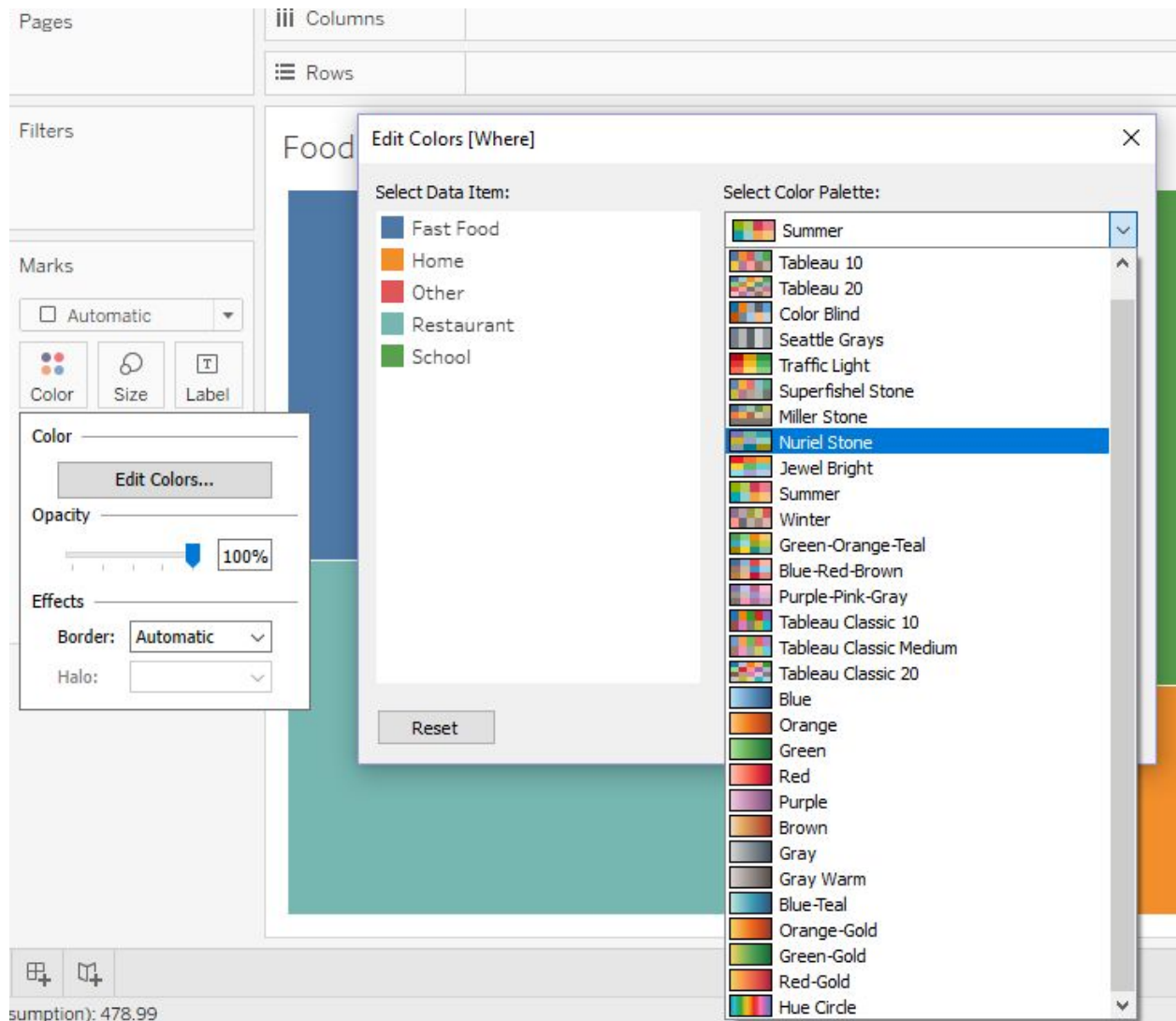
5. Drag the Where field to the marks shelf again and set it to color.



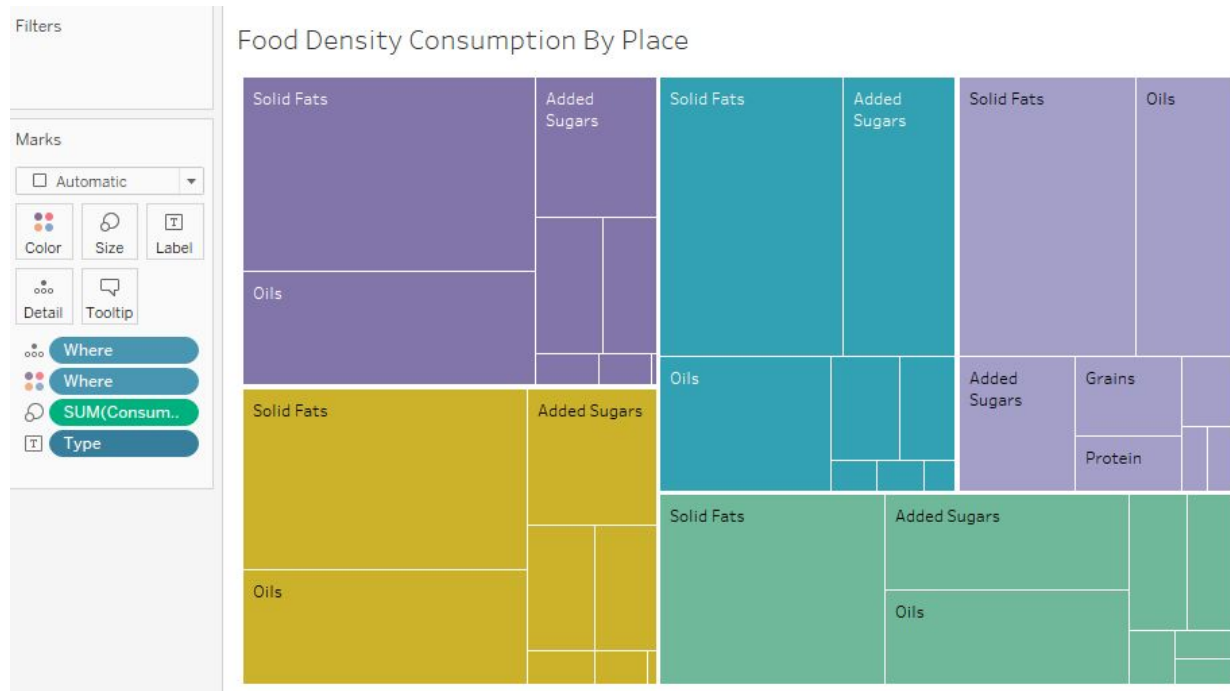
6. Now drag the Consumption measure to the marks shelf and set it to size.



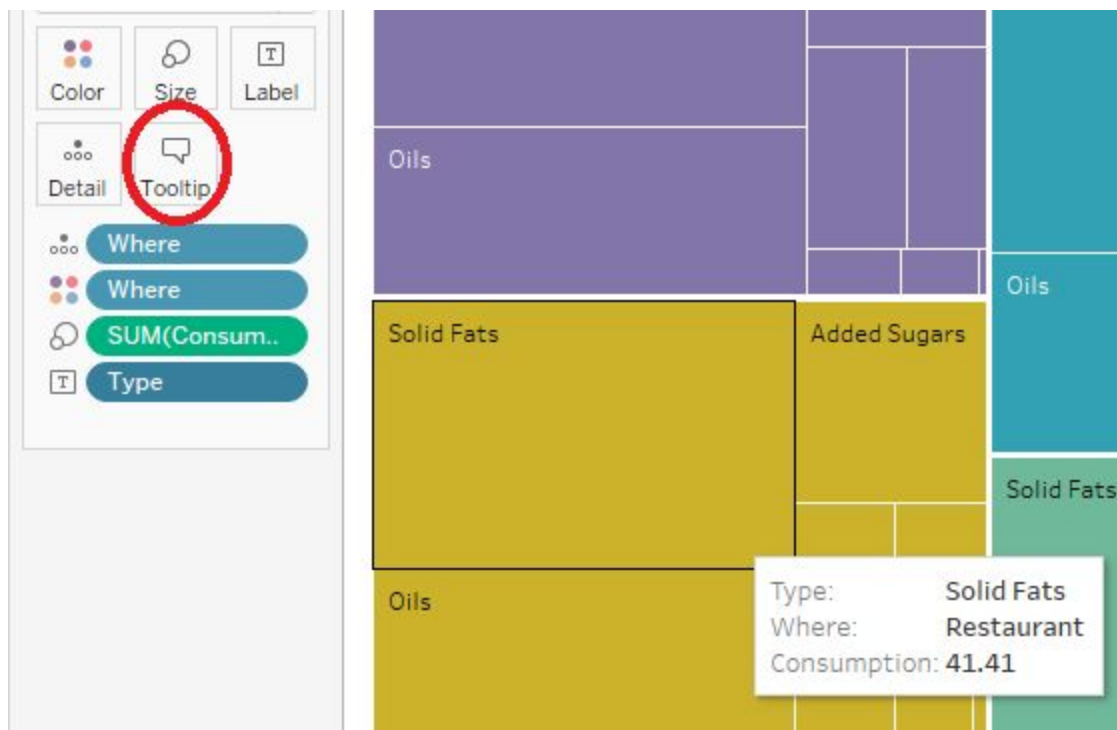
7. Click on the color button on the marks shelf and select "Edit Colors." Select the color palette and set it to Nuriel Stone. Click Assign Palette and then OK.



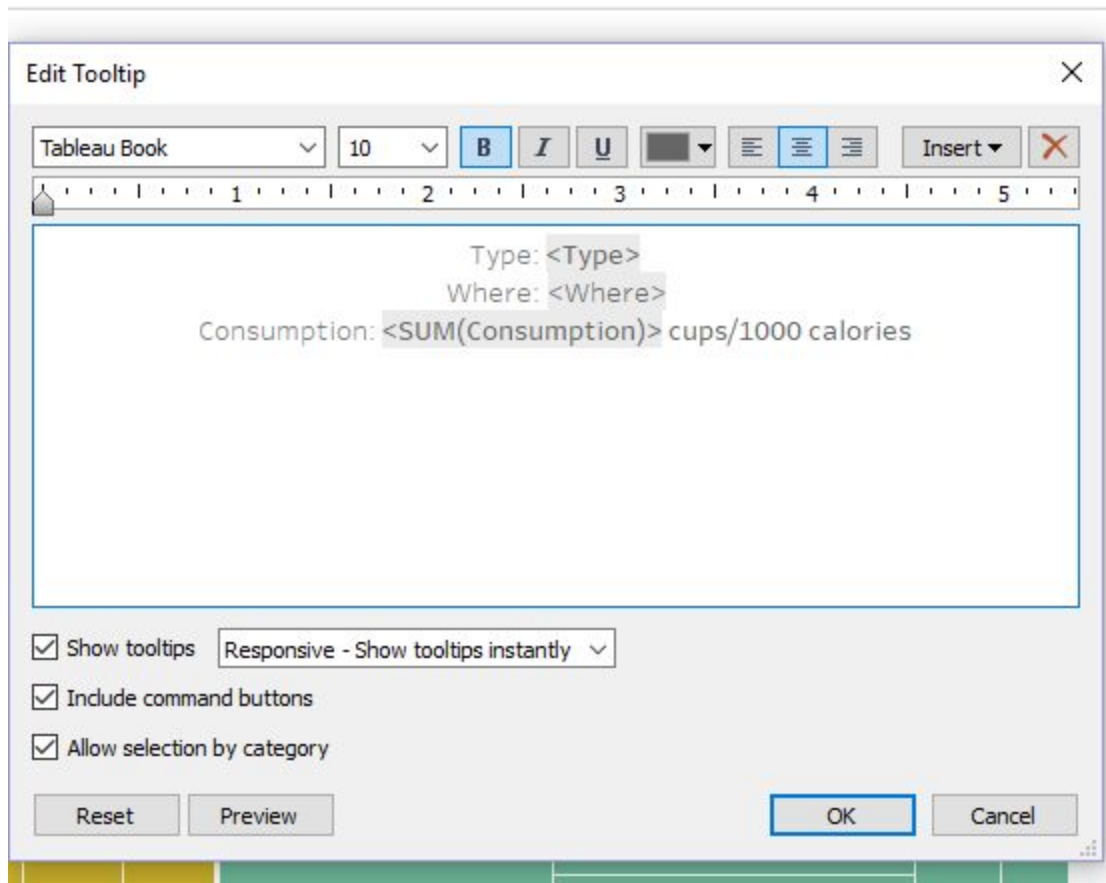
8. Then drag the Type dimension to the marks shelf and assign it to the label.



- Now we will edit the tooltip and add the units (cups/1000 calories) to the consumption measure. Select the tooltip under the marks shelf.



- Alter the tooltip to look like the image below. The units are placed after the <> placeholder.



11. Now your chart should look like this.

Food Density Consumption By Place

