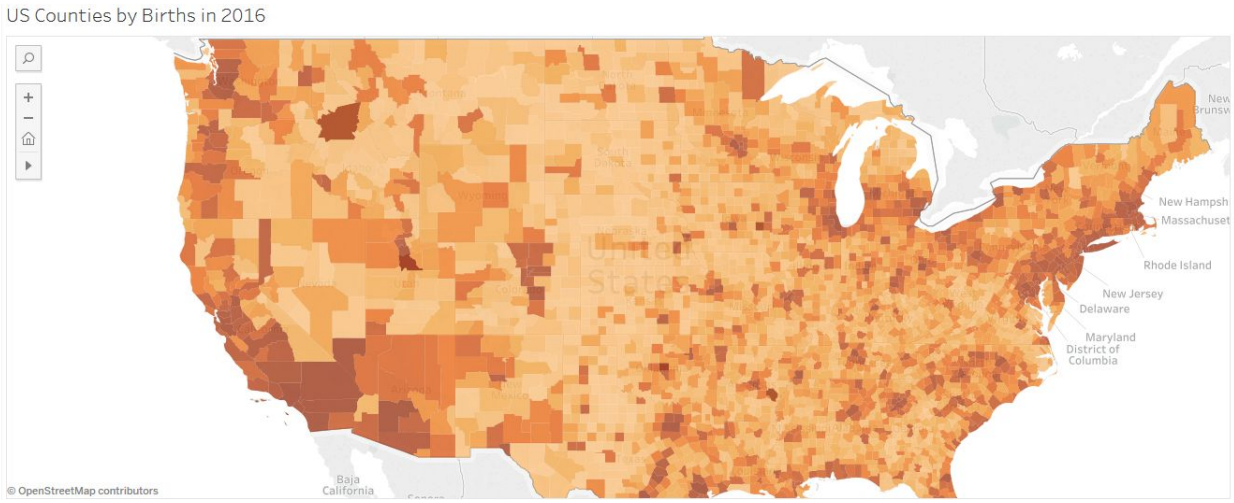
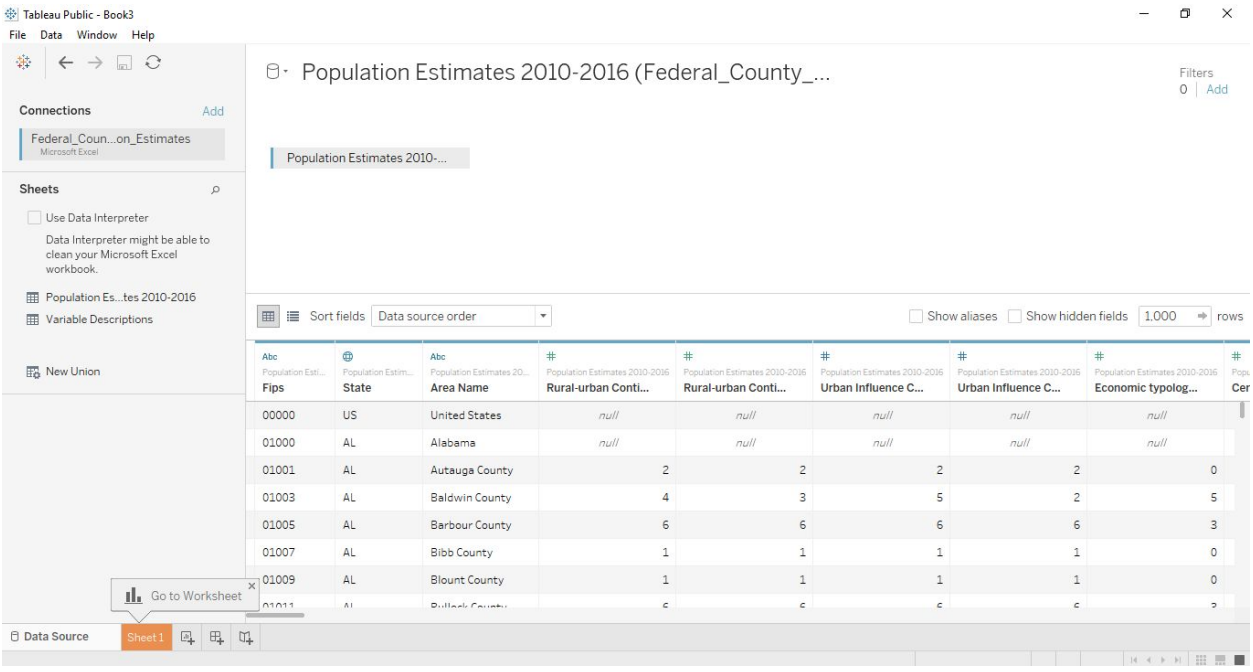
# Step by Step Guide in Creating a Heat Map

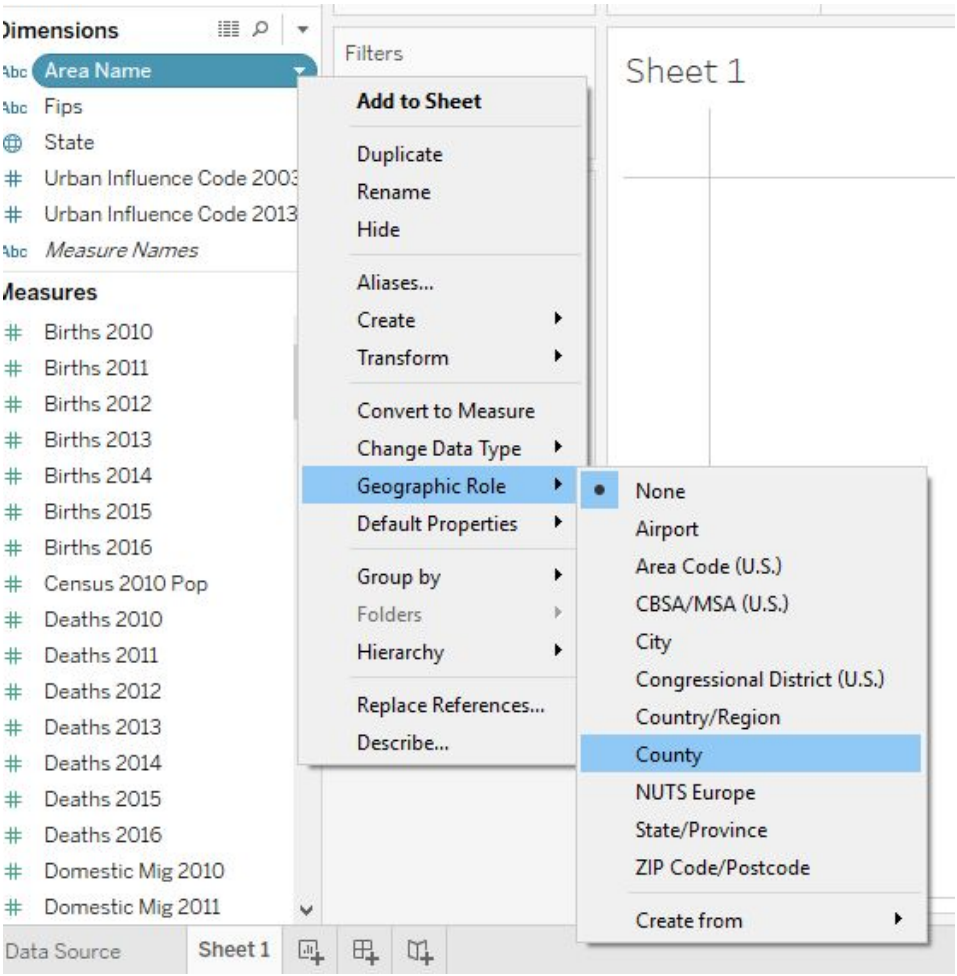



1. Download/save/check if dataset is available locally on your computer https://drive.google.com/open?id=1mHRpDjTElQVo3QnAjNjDyRTQNQIPyHjKe7heJGejTjw
2. Open Tableau and connect dataset to a new project

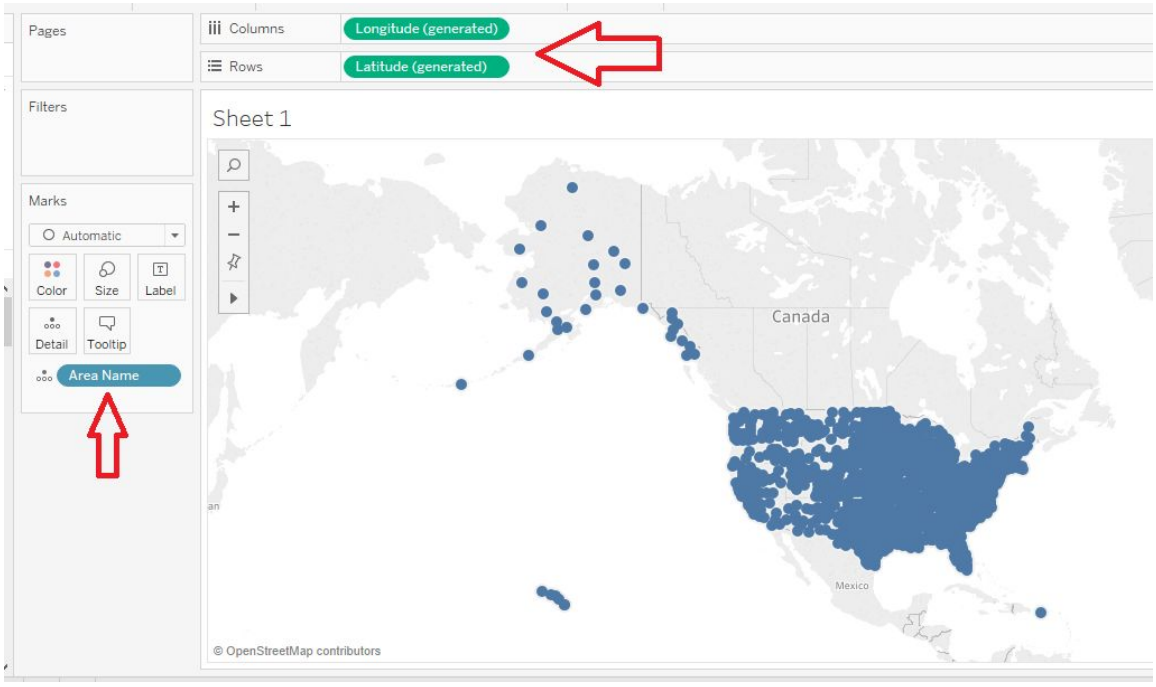



3. Go to worksheet and double click title to name Graph
    a. US Counties by Births in 2016

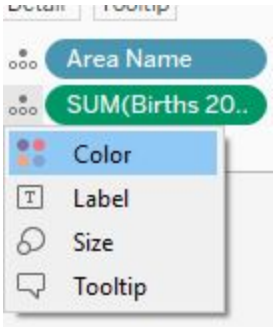

4. We will be placing markers by counties, which are listed under “Area Name” field. Change this to be recognized as a geo feature, county.



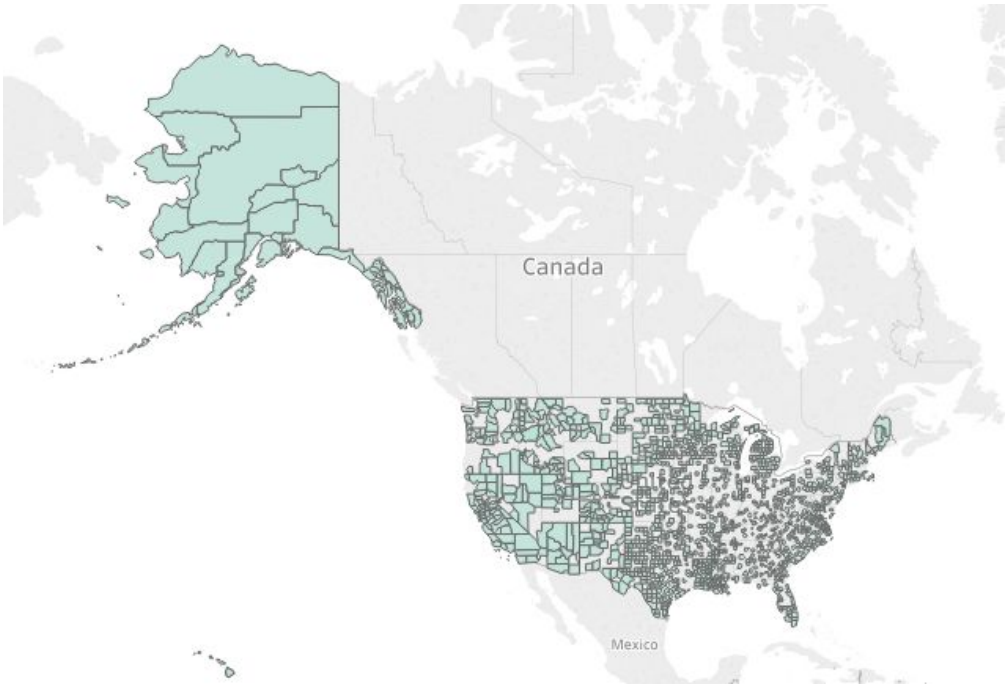

5. Now drag the Area Name field down to your marks shelf. Make sure Area Name is assigned to details of the marker. Because this field is assigned a geo role, longitude and latitude information will be generated for you under columns and rows.



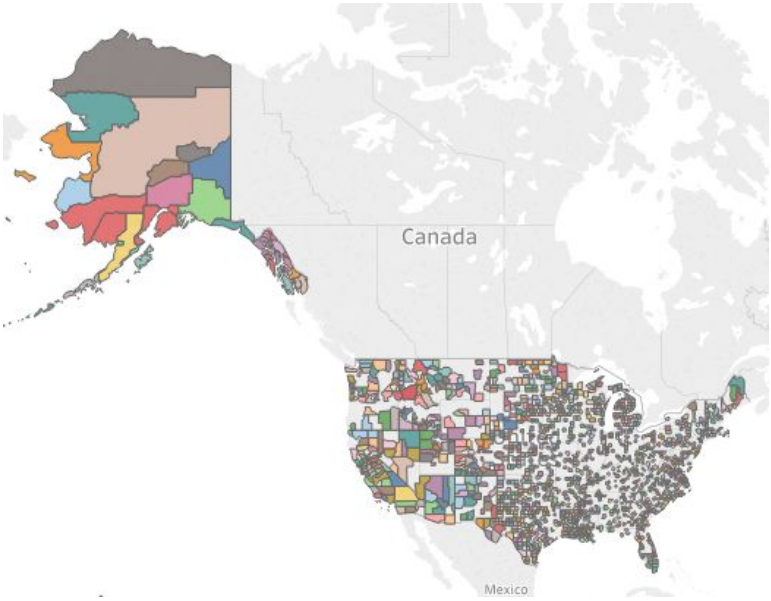

6. We want each county to be colored by the number of births in 2016. Drag Births (2016) measure down to your markers shelf, and assign it to color.



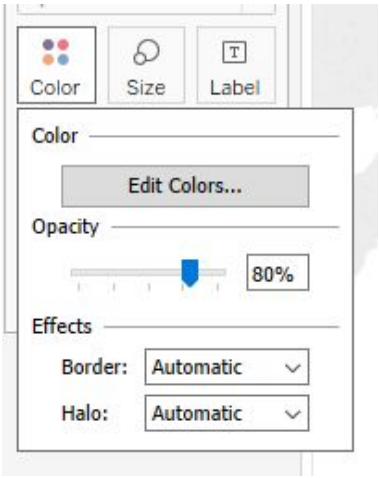

7. Now your map may look like the image below; however, the color is not differing between counties.



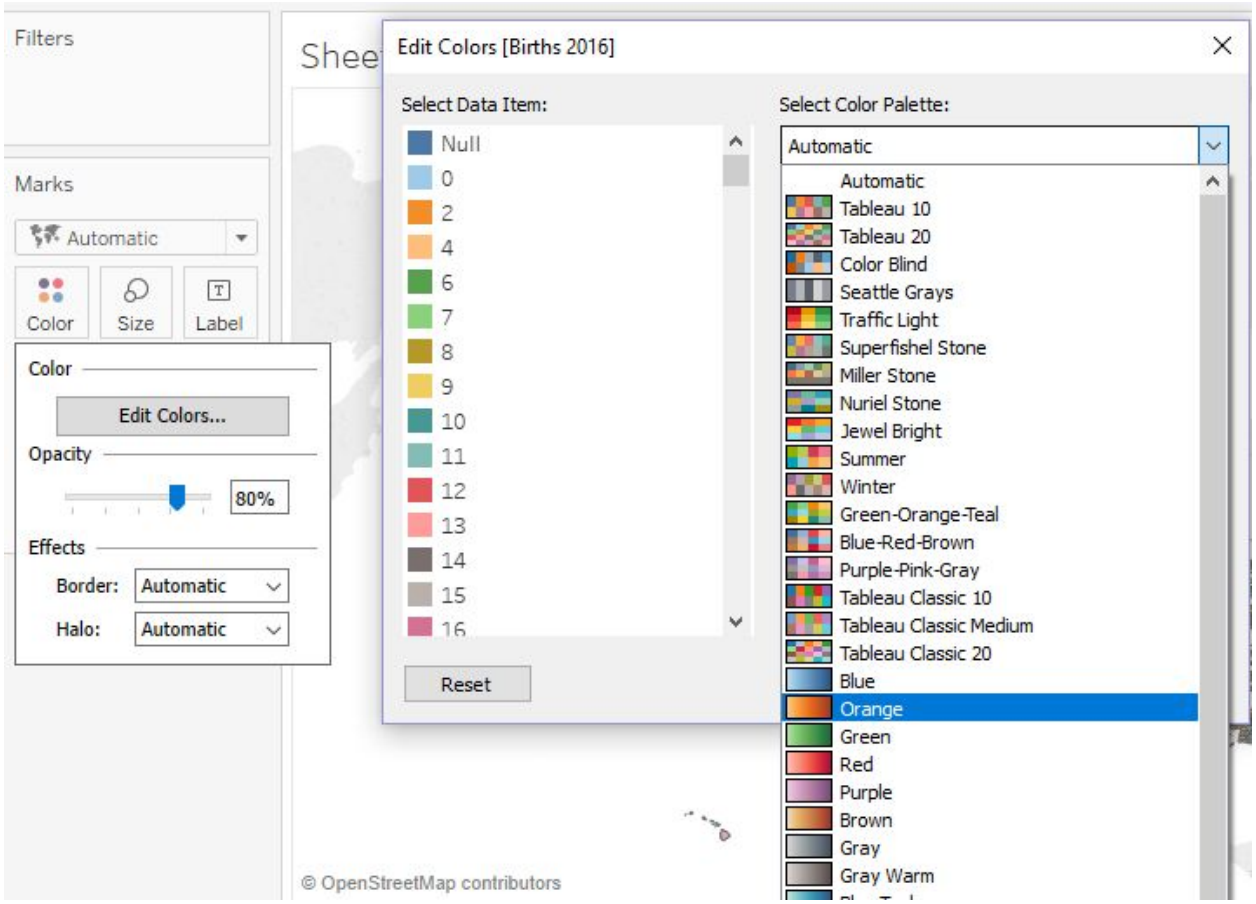

To fix this hover over the Births (2016) field you just added to your marks shelf and click on the drop down arrow. From there select discrete.



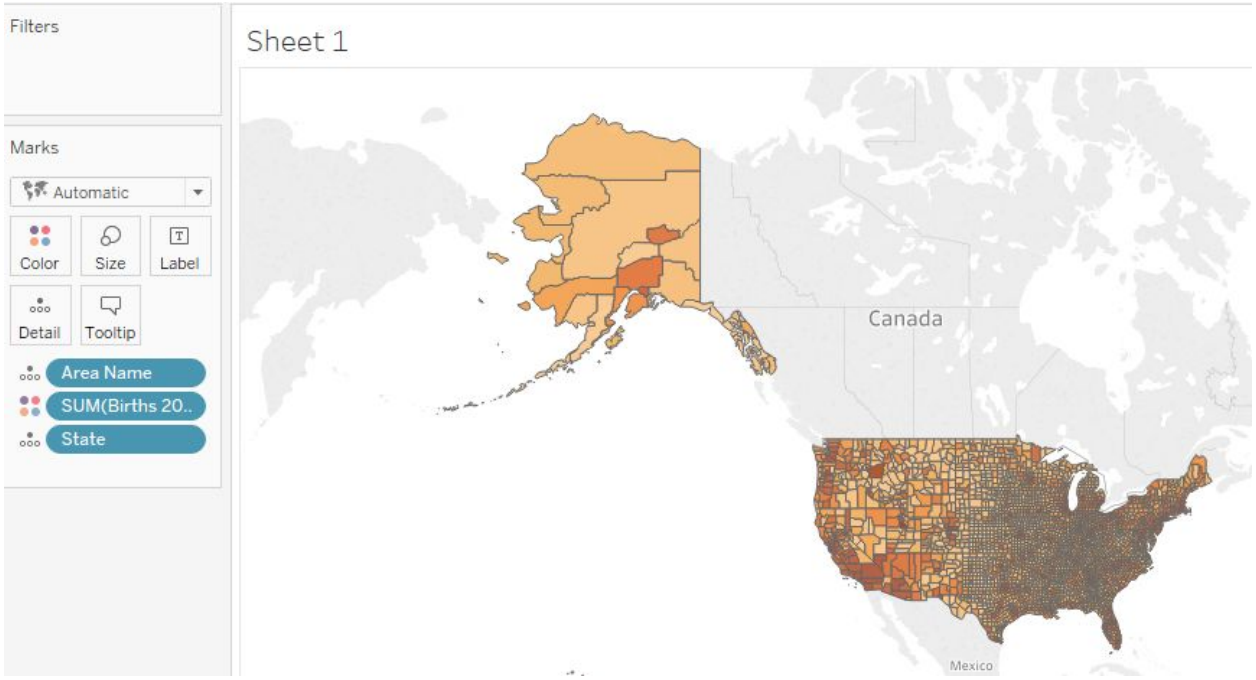

8. Now each county is given a color based on the exact number of births in 2016; however, we will now change the color palette in order to have a continuous range of colors encode the data in an easier to understand fashion. Click on the Color button in your marks shelf.



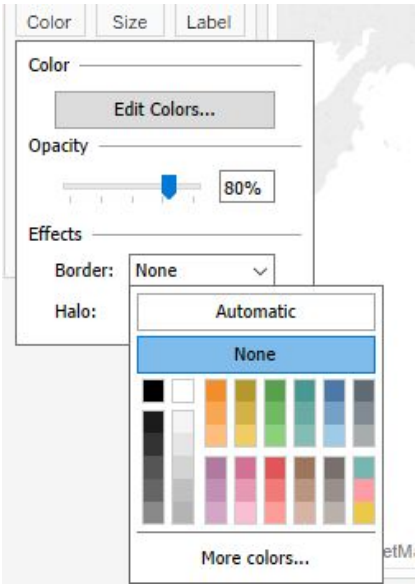

9. Select Edit Colors and change your palate to be Orange. Assign and apply this palette then select OK.



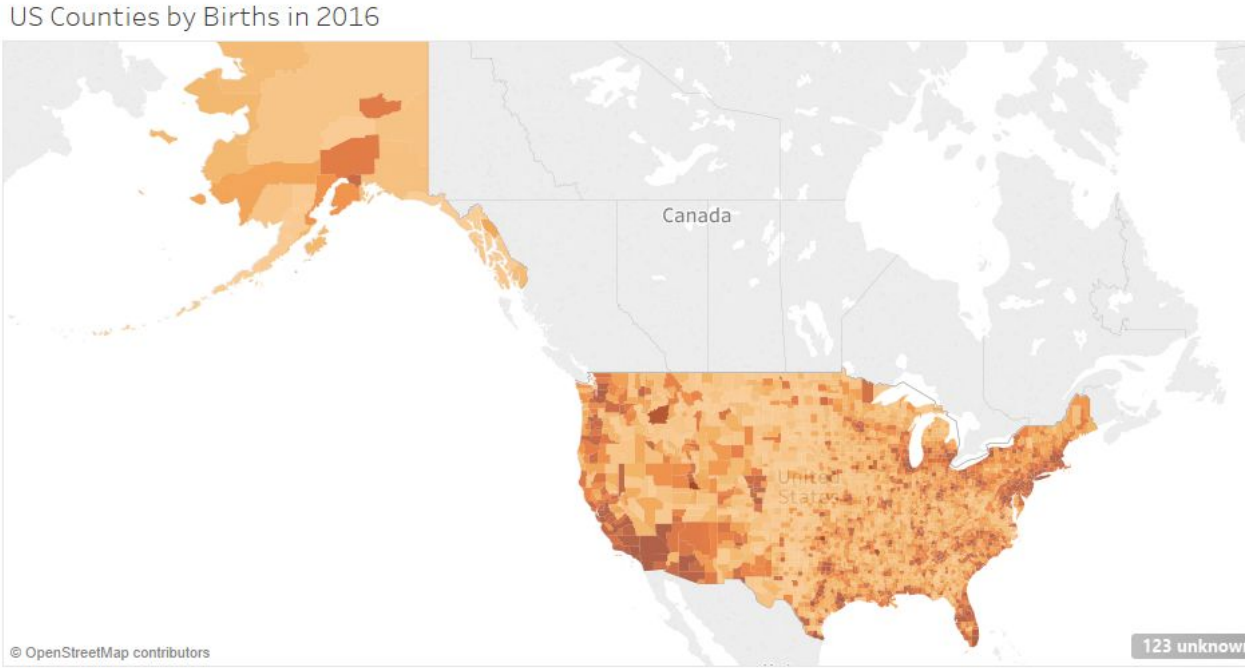

10. Each county is colored appropriately; however, many counties are not included in this dataset, creating empty spaces in your heat map. To fix this find the State field under dimensions and drag it to your marks shelf. This will color each state as well.



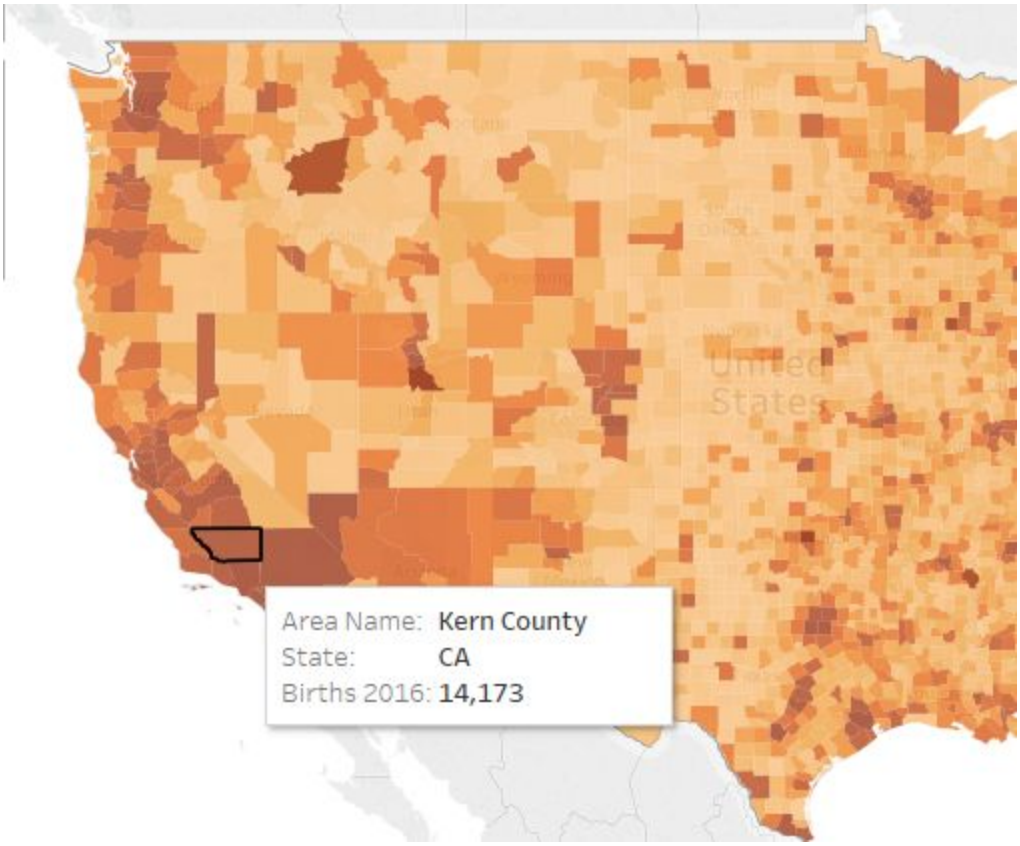

11. Now we will remove the borders around each county. Click on the Color button under the marks shelf. Hover down to the Border dropdown menu and select “none”



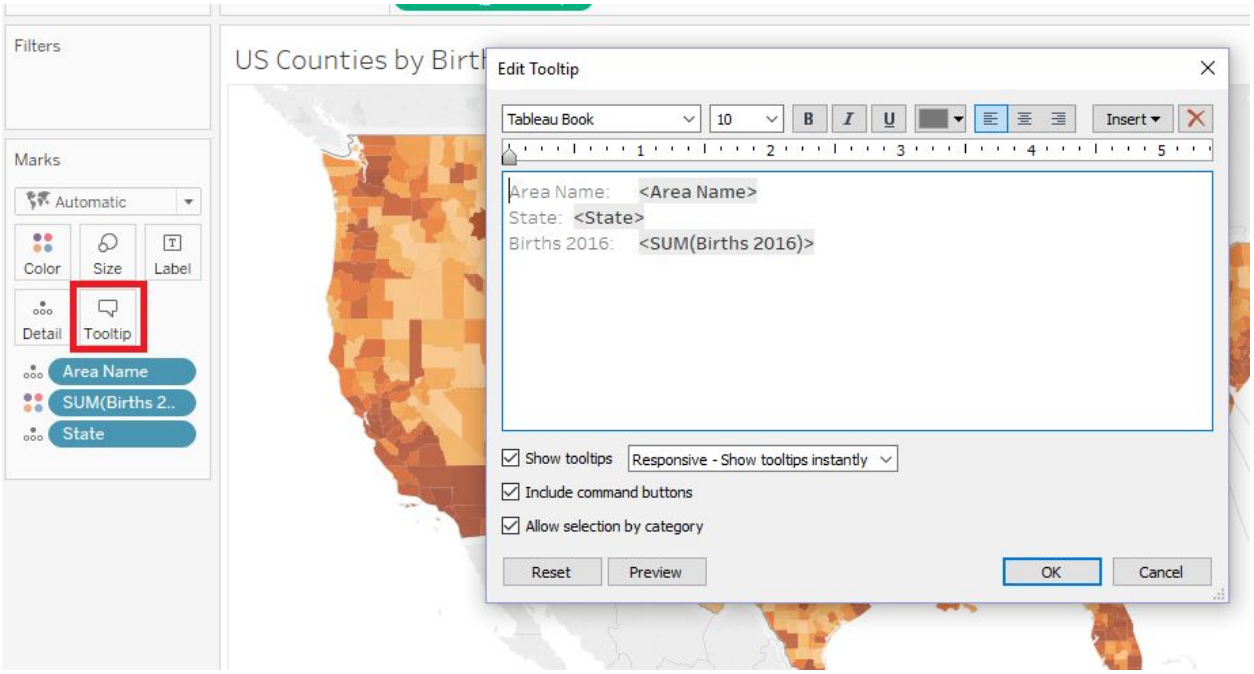

12. Now your map should look something like the image below.



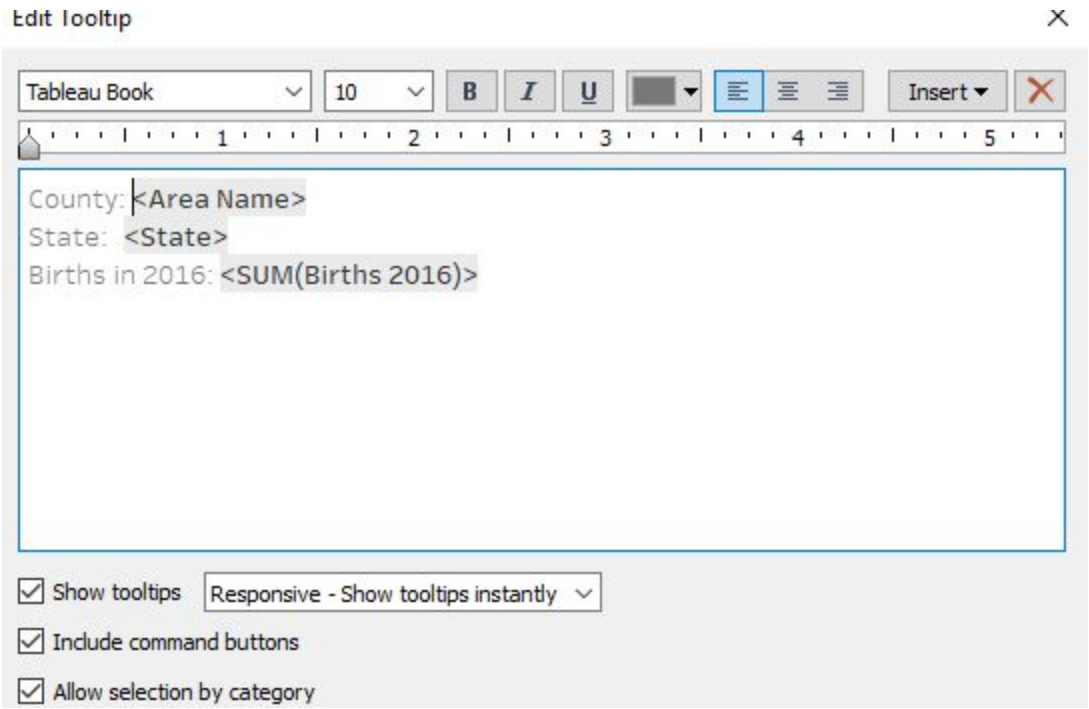

13. Currently when you hover over a county, a tooltip appears with the following information.



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.

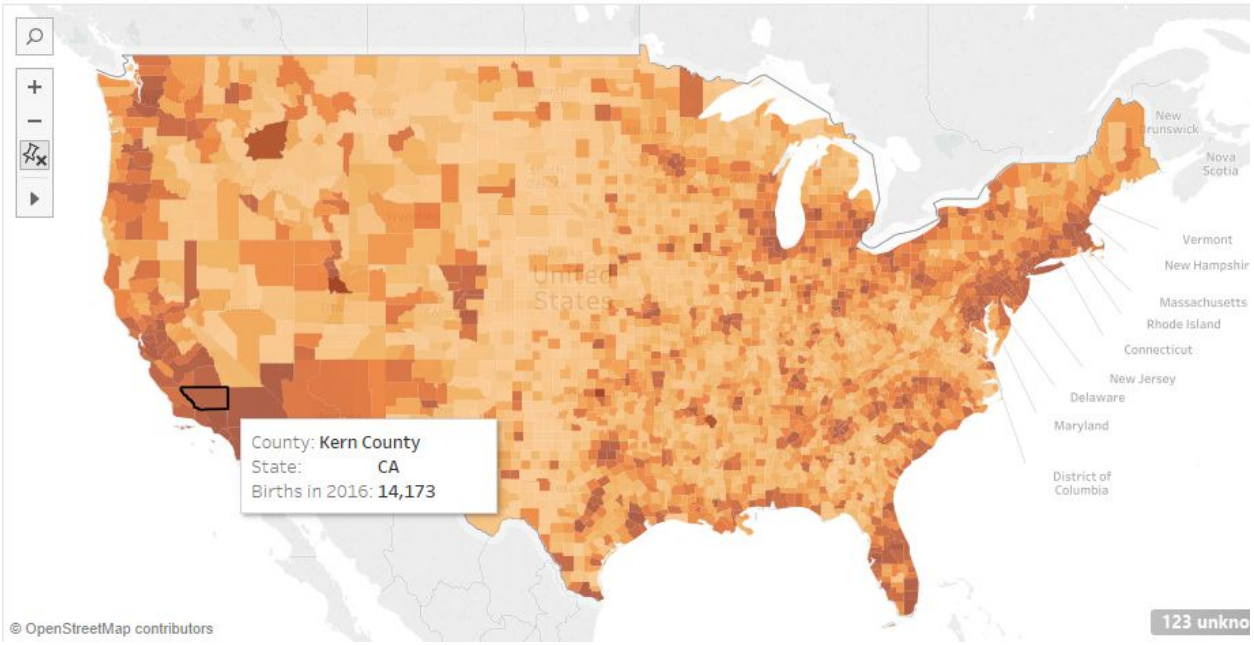



15. Change the text in the text field to look like the following, then select OK.



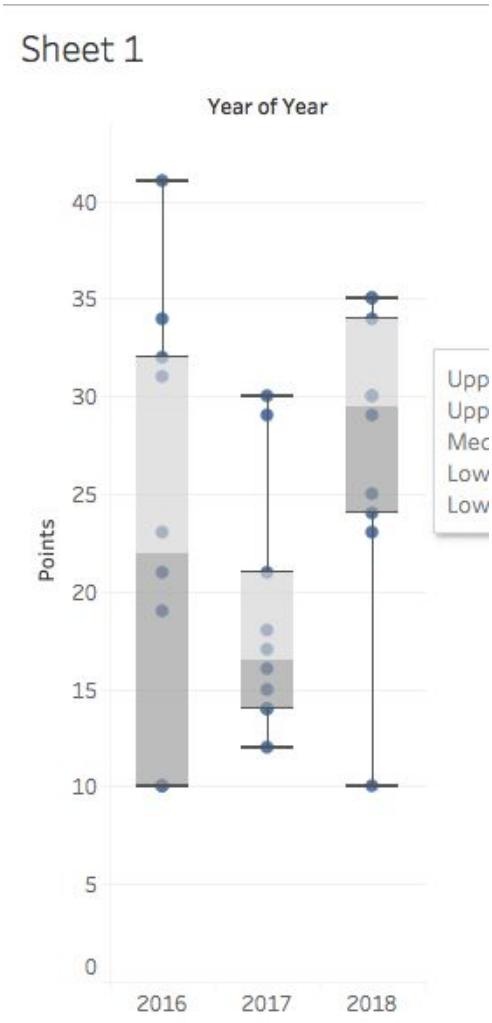

16. Now your tooltip should reflect these changes.

US Counties by Births in 2016



# Step by Step Guide in Creating Box Plot

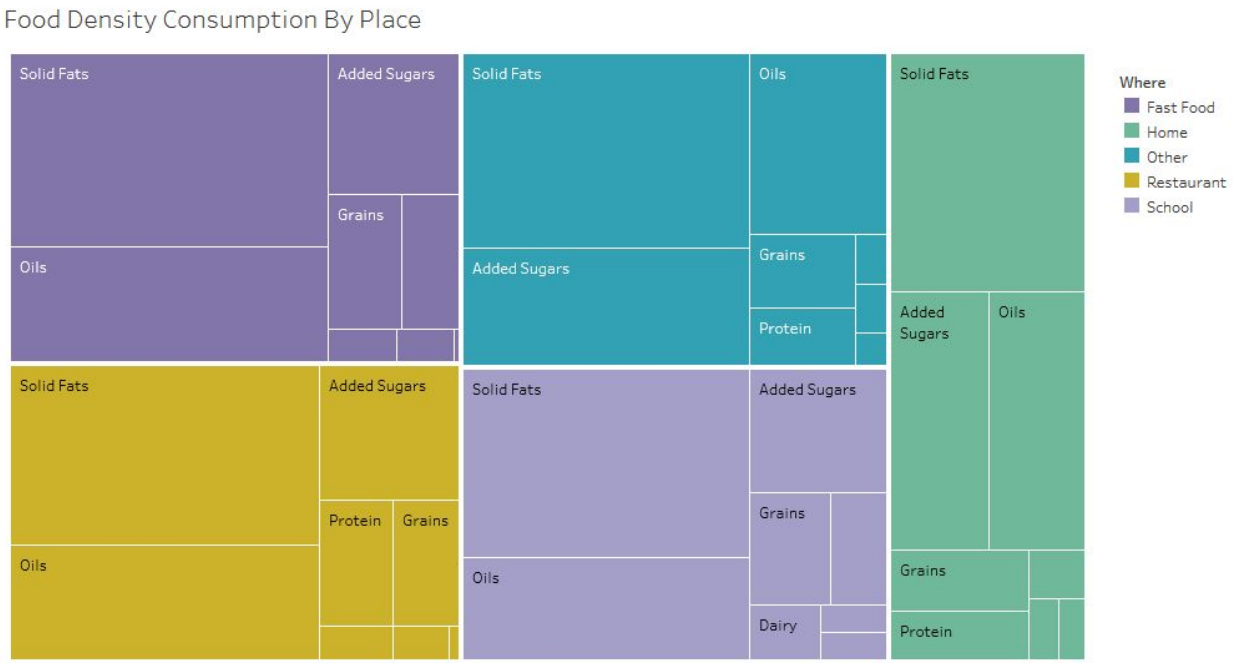
1. Save lbj.xlsx locally https://drive.google.com/file/d/13emLeOhB7xx3qATLLlcCkIk7_0JKvmiB/view?usp=sharing
2. Connect Data Source to Excel
3. Click Analysis at top and click aggregate measures to uncheck it
4. Convert Year from measure to attribute and make sure it is discrete
5. Drag Year to COLUMNS
6. Drag Points to ROWS (make sure points data is continuous)
7. Click Show Me and select Box Plot



# Using Dashboard

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

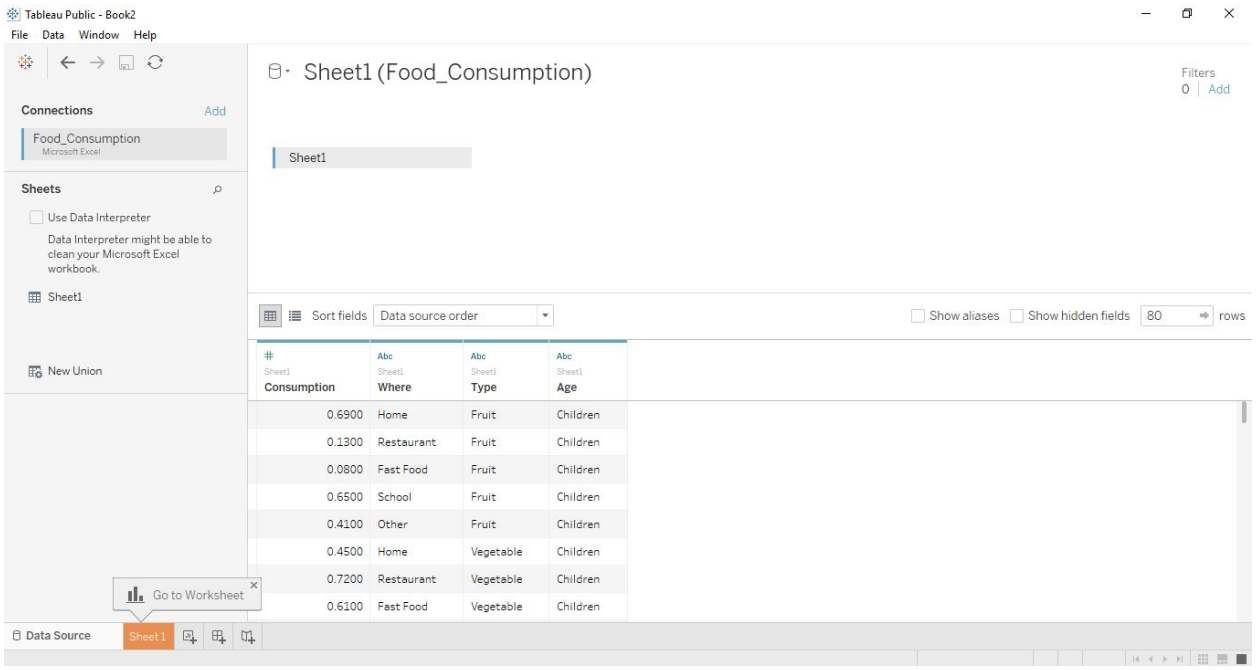
# Step by Step Guide in Creating Tree Map




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

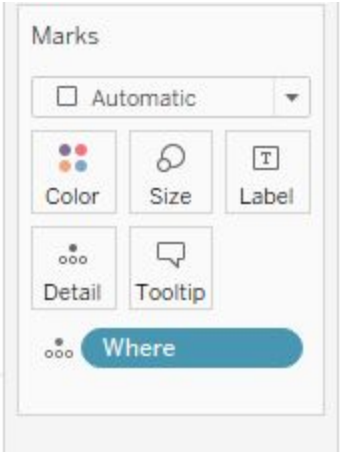
https://drive.google.com/open?id=1A9xk_SmvuzTdNn_X7lXJngvX_zVUX4s8CNyBYVOaaqc

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



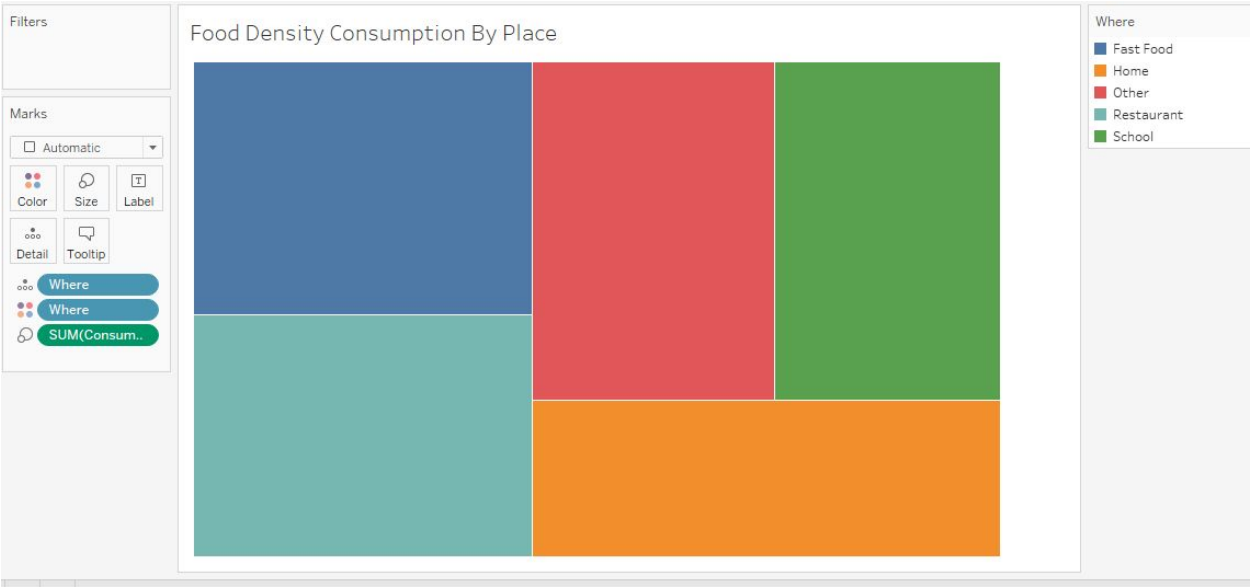

3. Go to worksheet and double click title to name Graph
    a. Food Density Consumption By Place


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

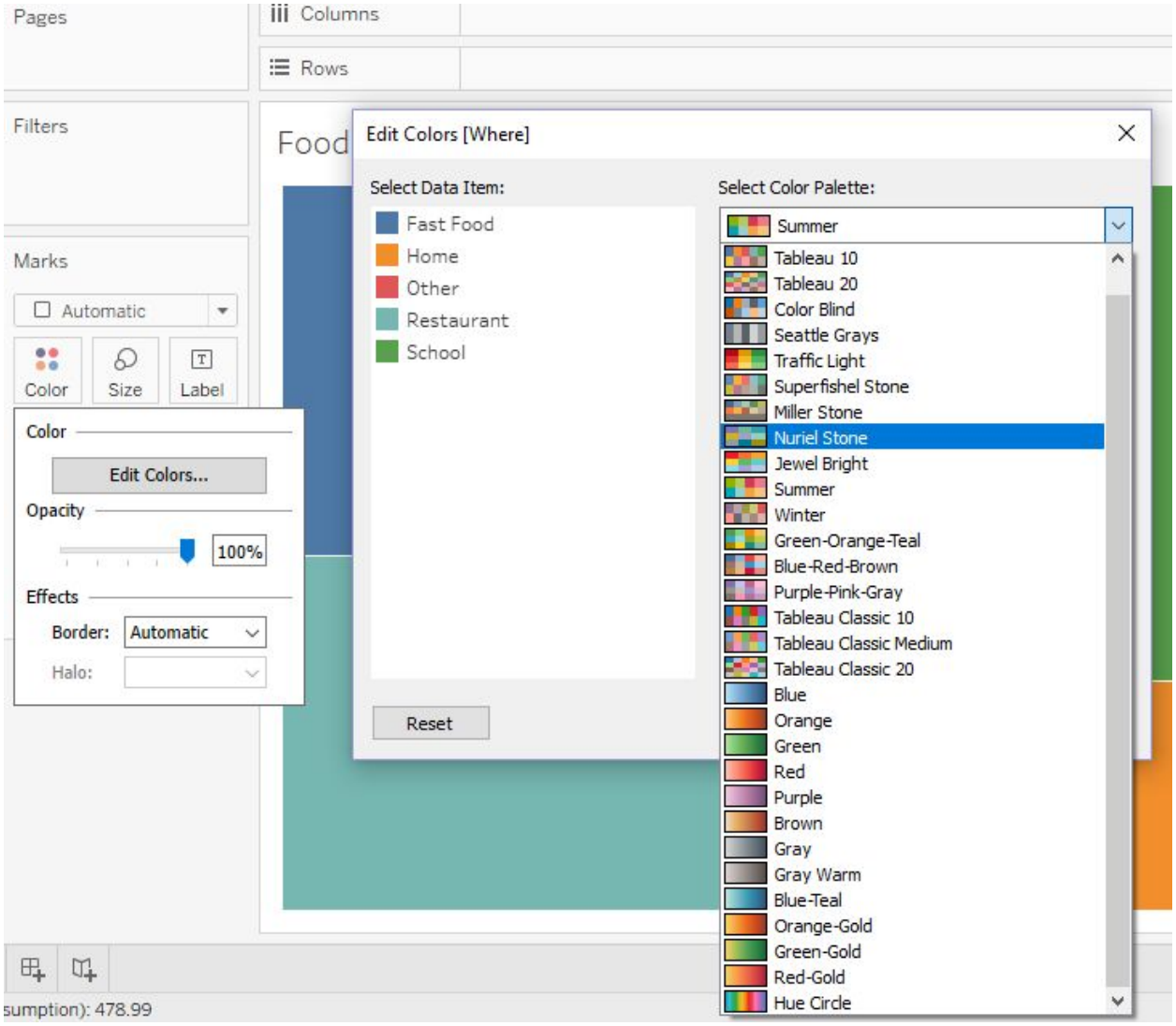



5. Drag the Where field to the marks shelf again and set it to color.

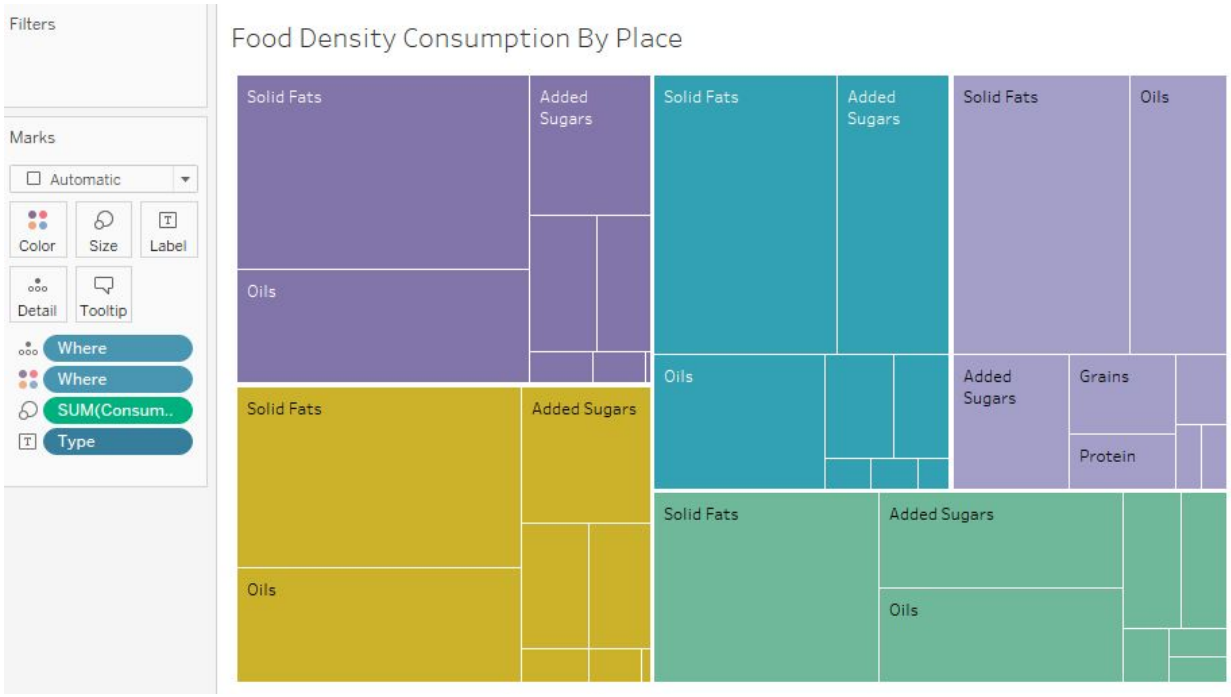

6. Now drag the Consumption measure to the marks shelf and set it to size.



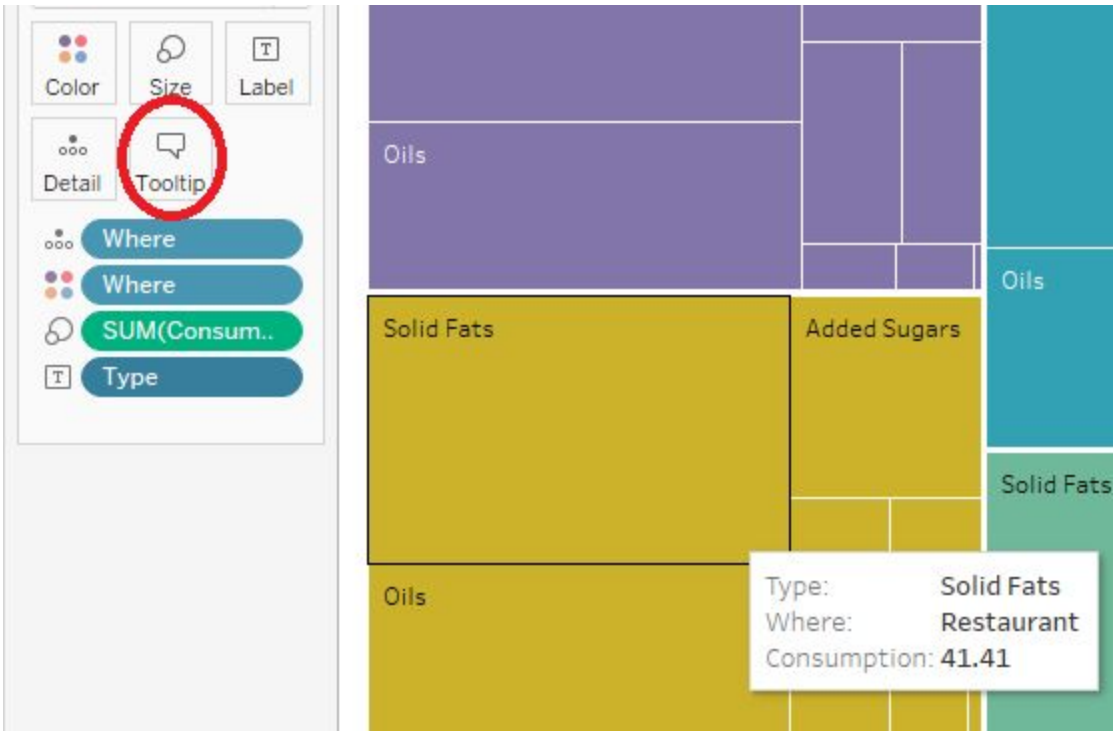

7. Click on the color button on the marks shelf and select “Edit Colors.” Select the color palette and set it to Nuriel Stone. Click Assign Palette and then OK.



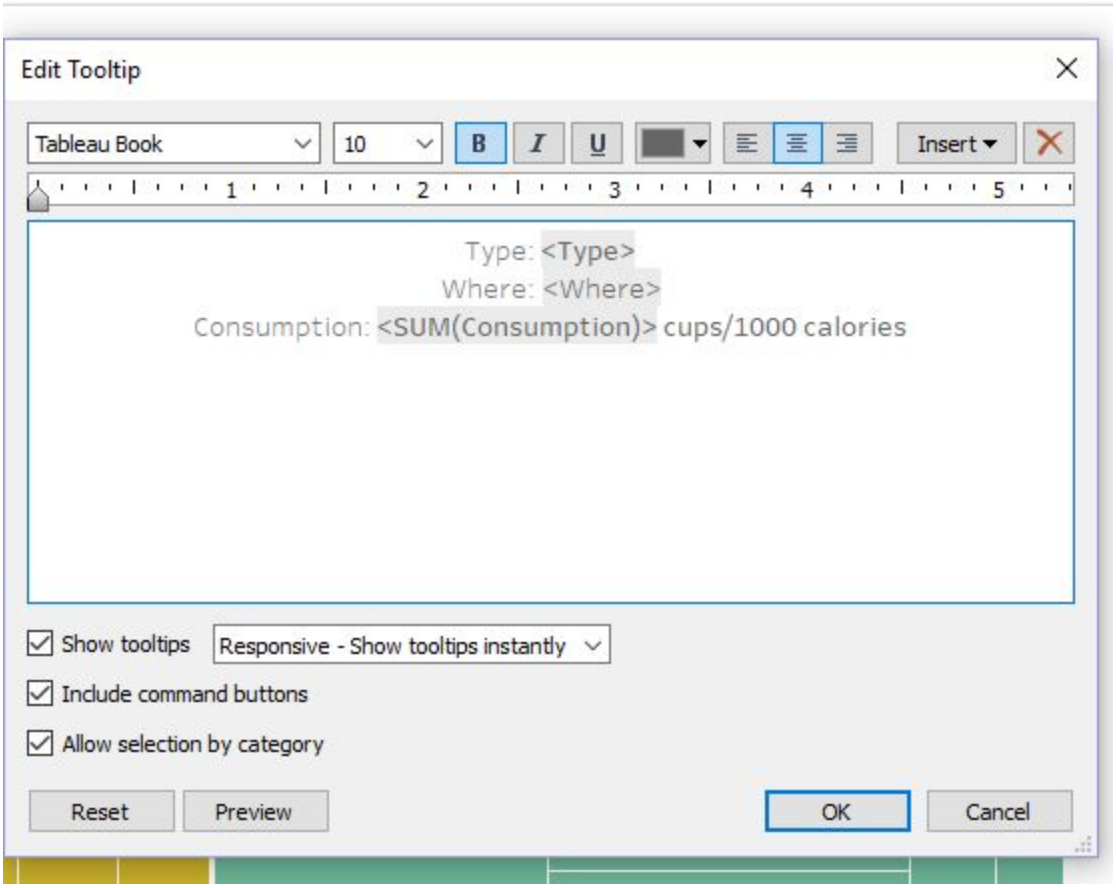

8. Then drag the Type dimension to the marks shelf and assign it to the label.




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




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




11. Now your chart should look like this.