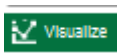
Creating a Point and Heat Maps

Montana Data Portal

How do I create a Map?

To create a Point or Heat Map, select a filtered view or dataset and open it.

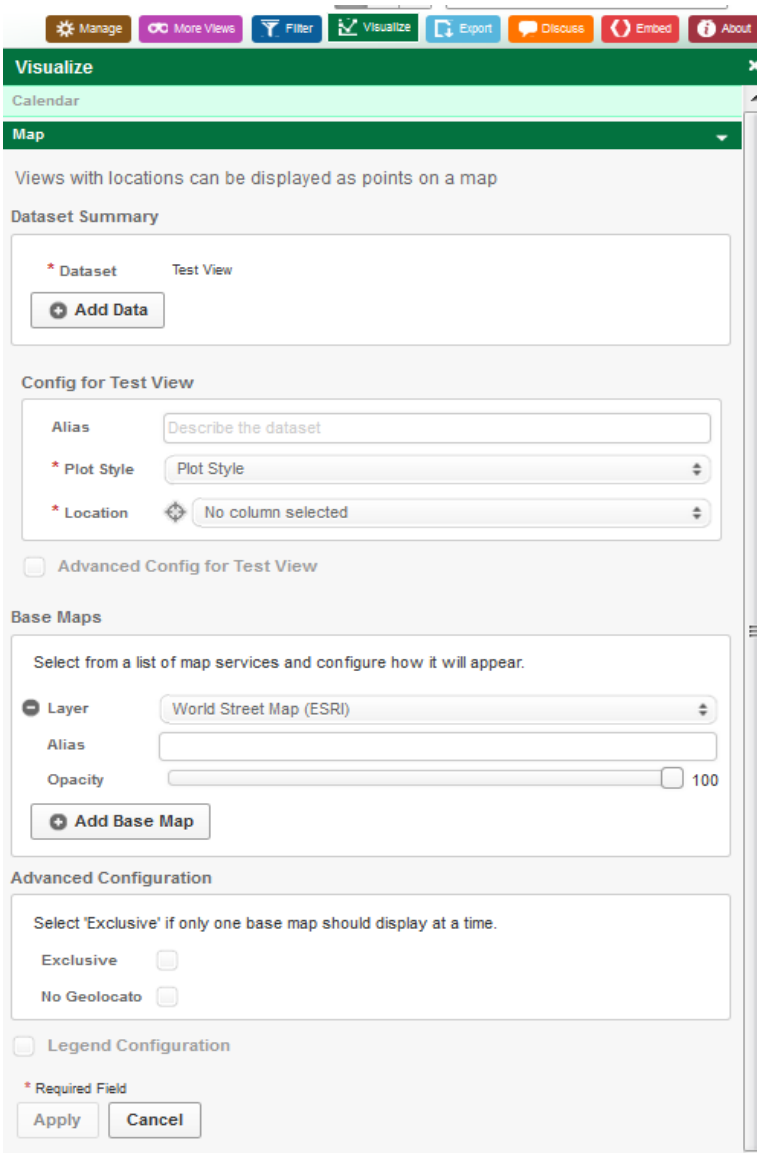
Select the Visualize button 

in the upper right hand corner of a view or dataset.

Select the Map option.

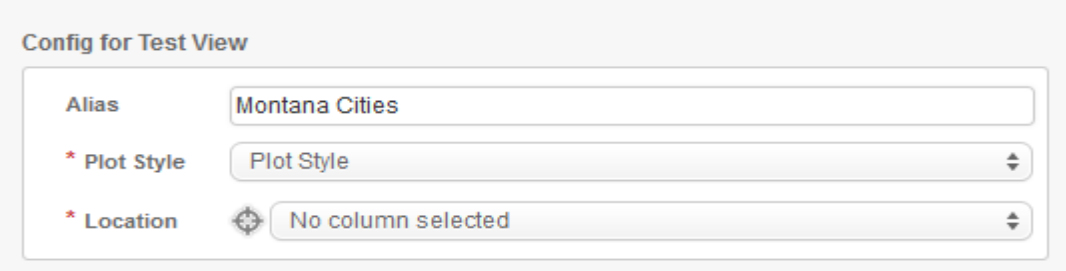
In the directions pages 2 through 10, if there are variations in how the point and heat map are setup, they will be broken out by each type of map.

Please note that the map will not display until you click on the 'Apply' button, which will be greyed out until all the required fields are completed.

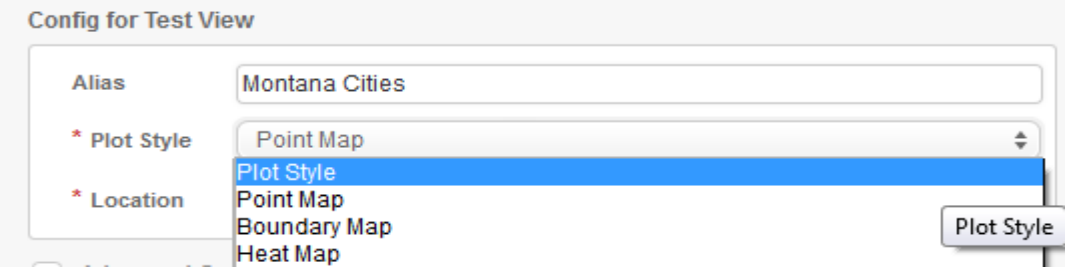


Point and Heat Maps: Under the Config section:

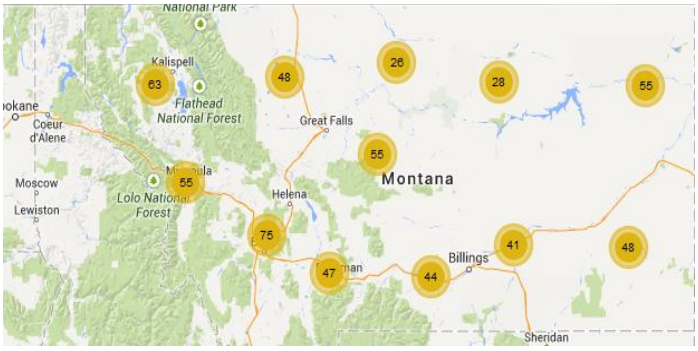
The alias field is typically used for naming the Map



There are three options for Plot Style; point map, boundry map, and heat map.



A point map – plots the locations of data



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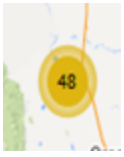
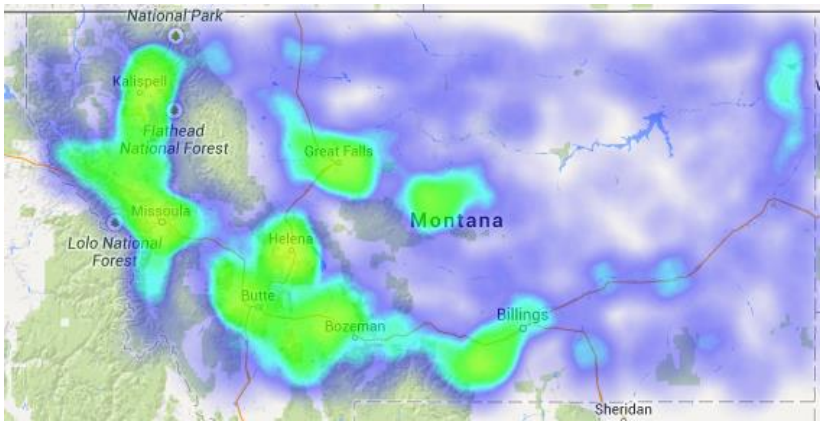
Clustering 

is a responsive feature which occurs when a point map is viewed beyond a certain zoomed-out threshold where the point density is large enough to make it difficult to distinguish individual points.

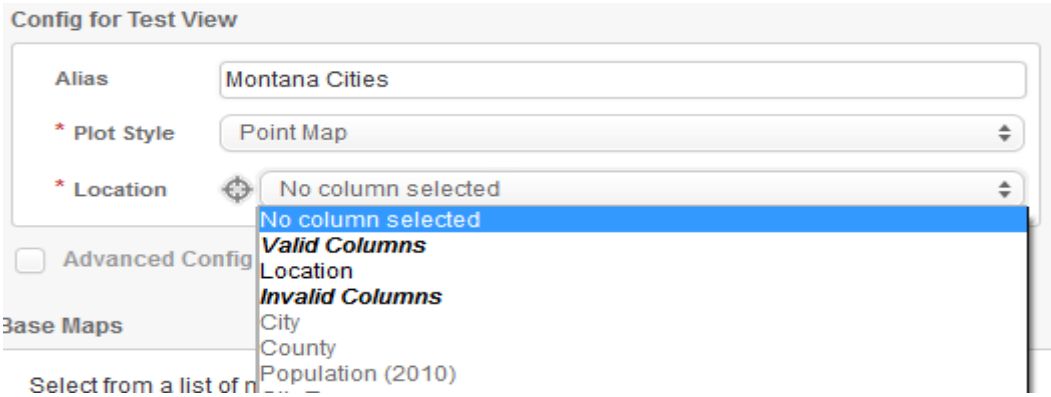
A heat map - shows the distribution of data in the form of heat spots. The warmer the color the greater the data incidences in that area.



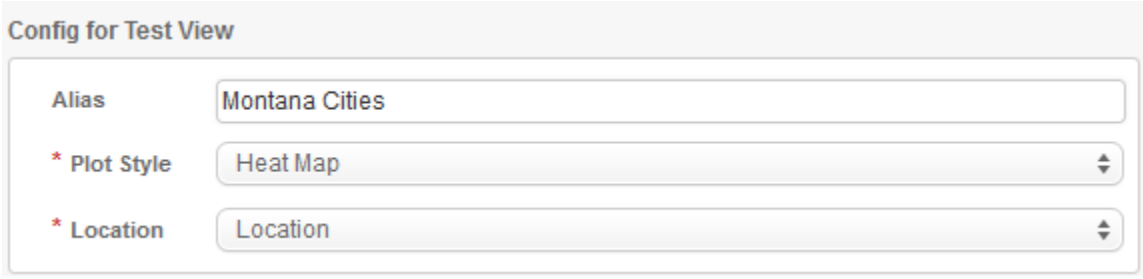
A boundry map – shows the data variation between boundires. Please see the how to 'Overlaying a Boundary Map and Dataset.docx' document for details

The Location field, will identify the valid location field. In the example below, the location field of this dataset is 'location'.

Point Map:

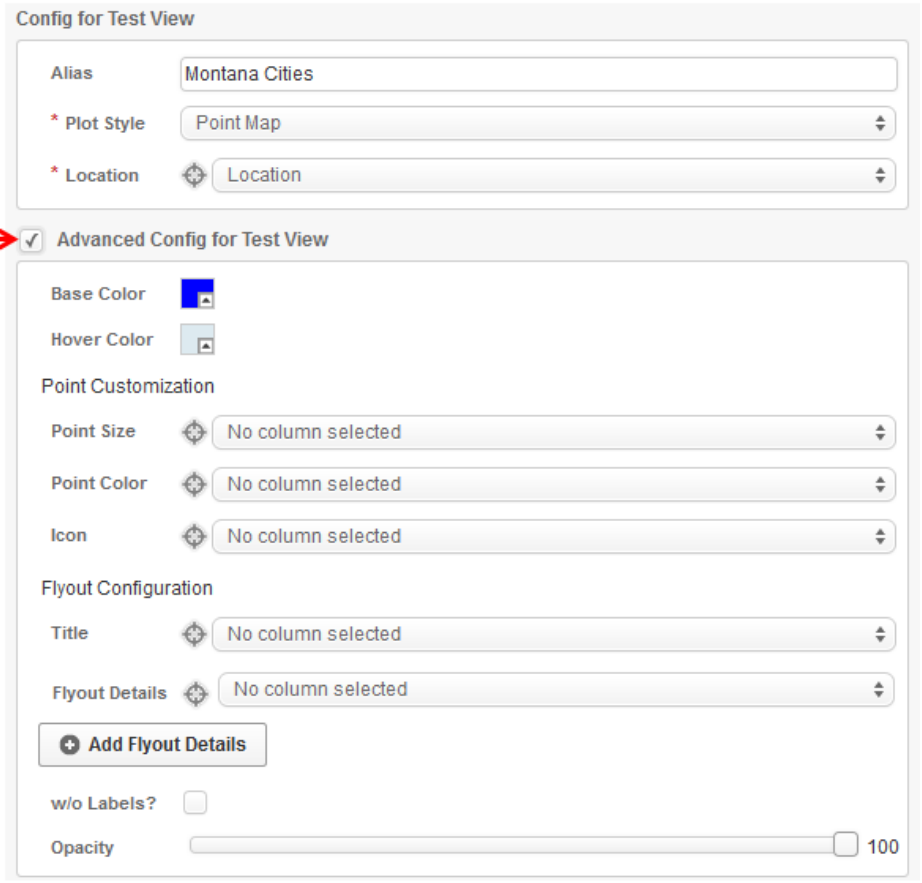


Heat Map:

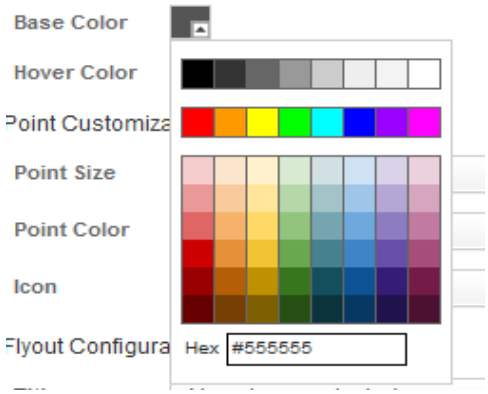


Point and Heat Maps: Under the Config section, and ‘Advance Config’ Section:

Point Map: Select the box next to the ‘Advanced Config’ Section



You can customize the map colors through the ‘Base Color’ and ‘Hover Color’ fields. Select the arrow and select a color or type in the color code and select enter on your keyboard.

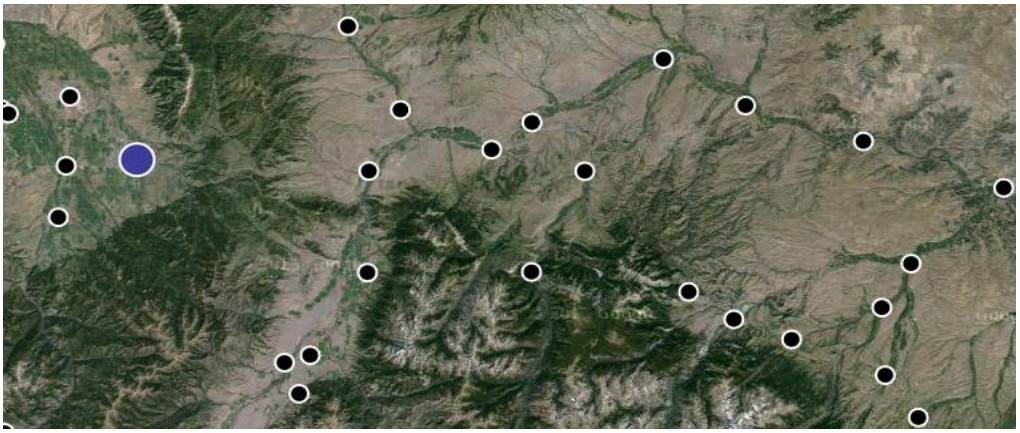


Heat Map: Select the box next to the ‘Advanced Config’ Section

Point Maps only: Under Point Customization, there are options for Point size, Point color, and icon.

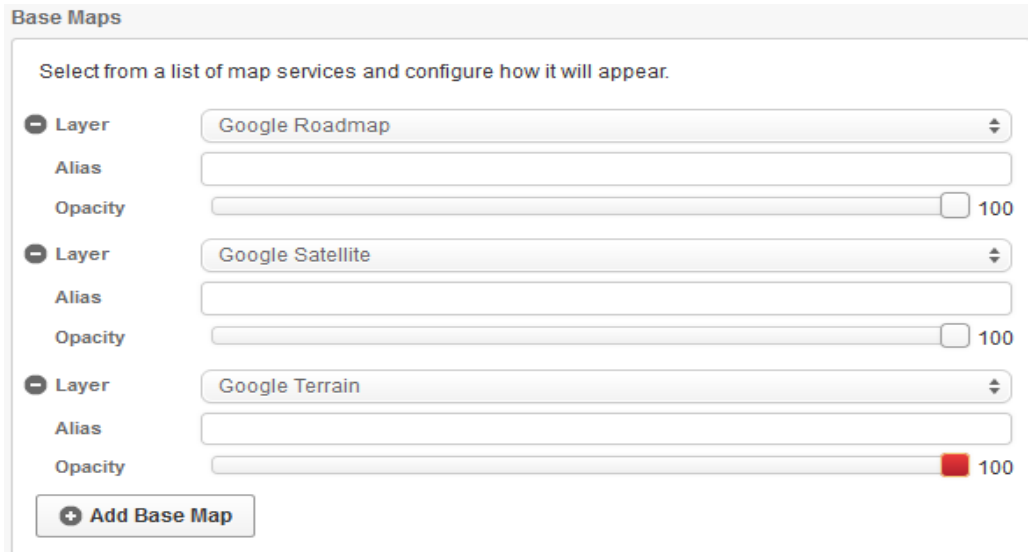
- The ‘Point Size’ field allows you to select which column in the dataset you want to determine the size of your data points.
- The ‘Point Color’ field allows you to select the column of data you want the opacity of the data points to depend on.
- The ‘Icon’ field allows you to add images as icons for data points, if your dataset has a separate column with images.

In the example below, selecting the ‘Population’ as the point size will result in larger data points the higher the population is. The point color of ‘Population’ will result in darker data point colors where the ‘Population’ has lower values and lighter point colors where the ‘Population’ has higher values.

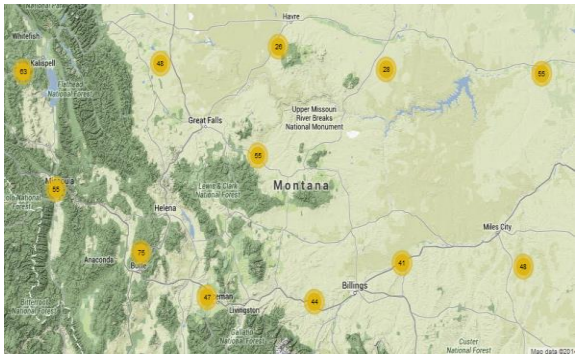


Point Maps only: Under Flyout Configuration, there are options to select which data points will display when you click on the data point. The 'Add Flyout Details' allows you to select several data fields in a dataset to display when the data point is clicked. The example below reflects

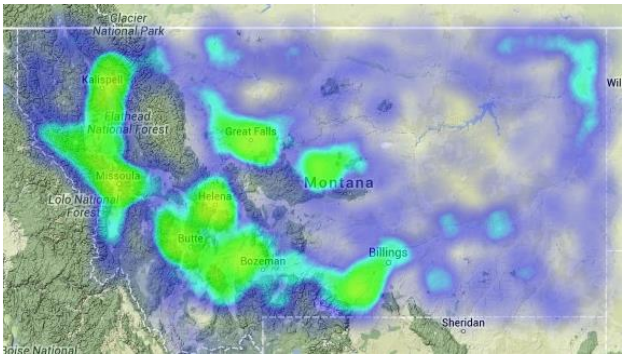
Point and Heat Maps: Under Base Maps, there is an option to add multiple base map layers.



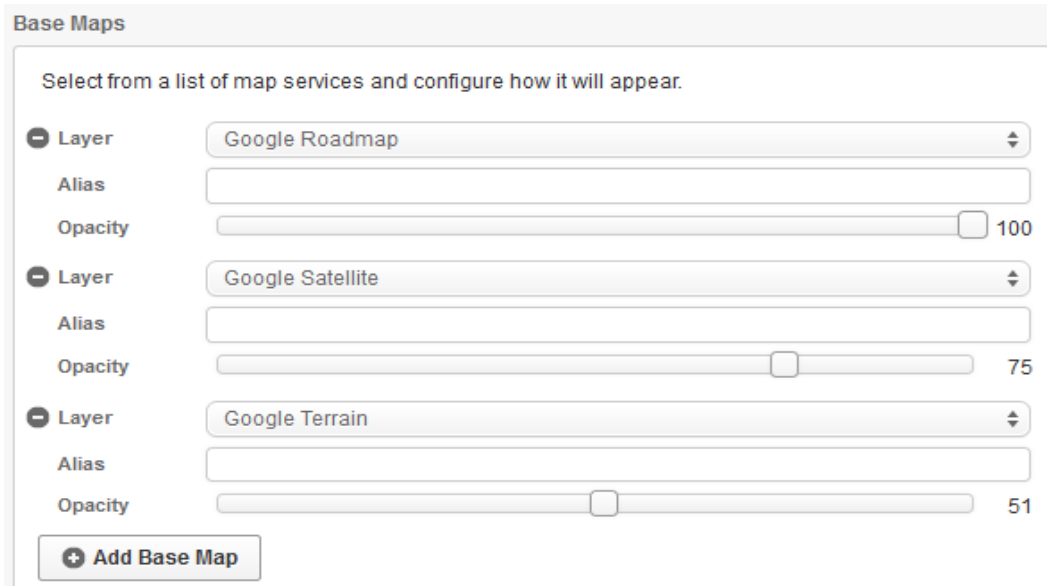
Point Map



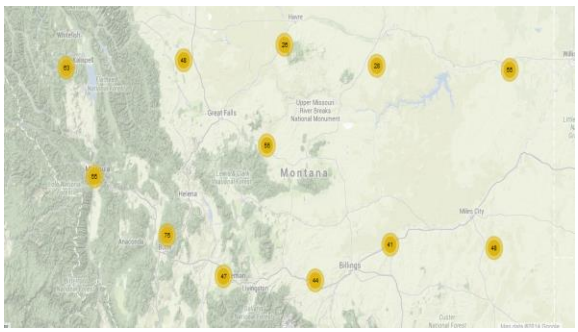
Heat Map



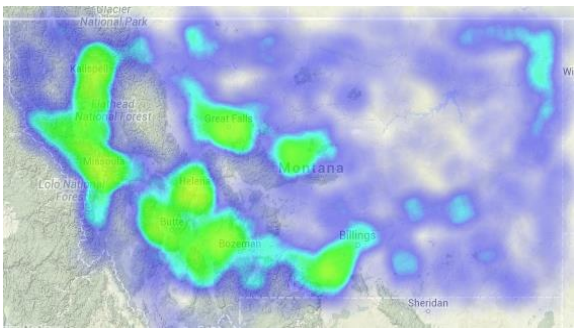
Opacity allows you to change the opaqueness of each base map layer.



Point Map

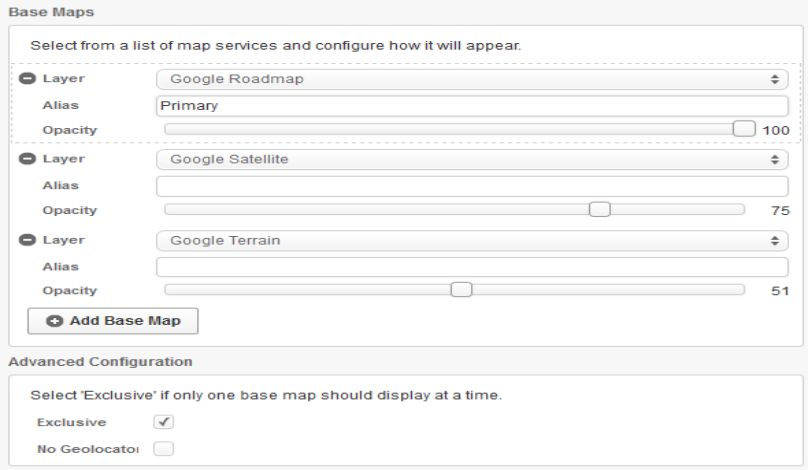


Heat Map

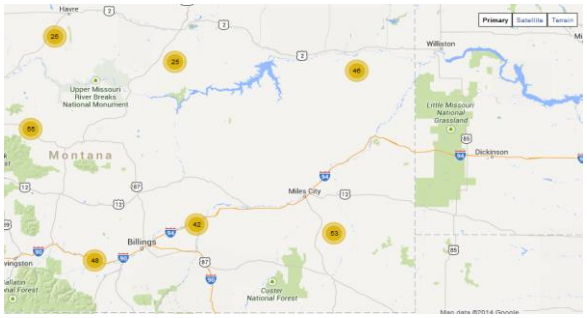


Point and Heat Maps: Under the Advance Configuration, there is an ‘exclusive’ option that allows you to display multiple base maps one at a time, and an option to have ‘no geo-location’.

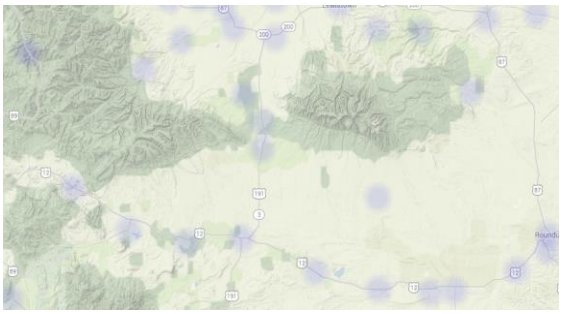
In the example below, the Google Roadmap, alias Primary, is the primary map.



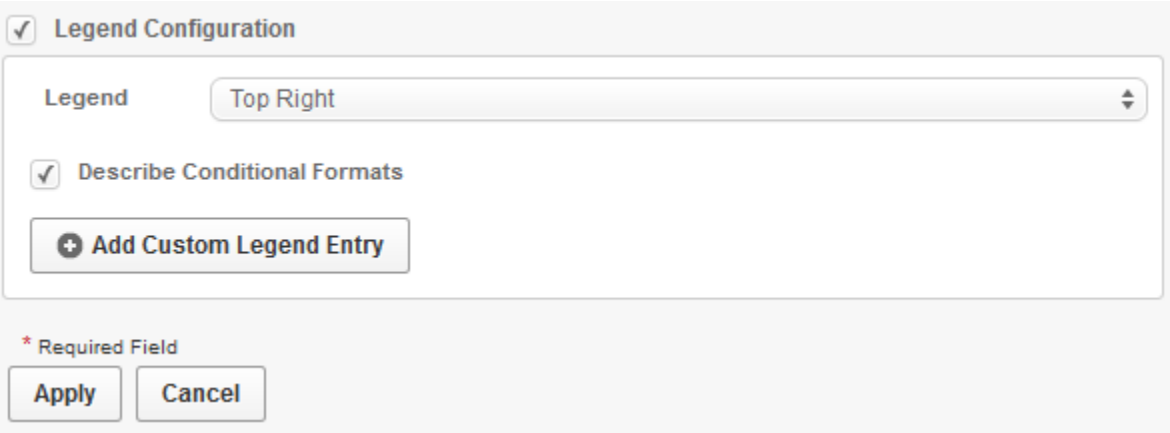
Point Map



Heat Map

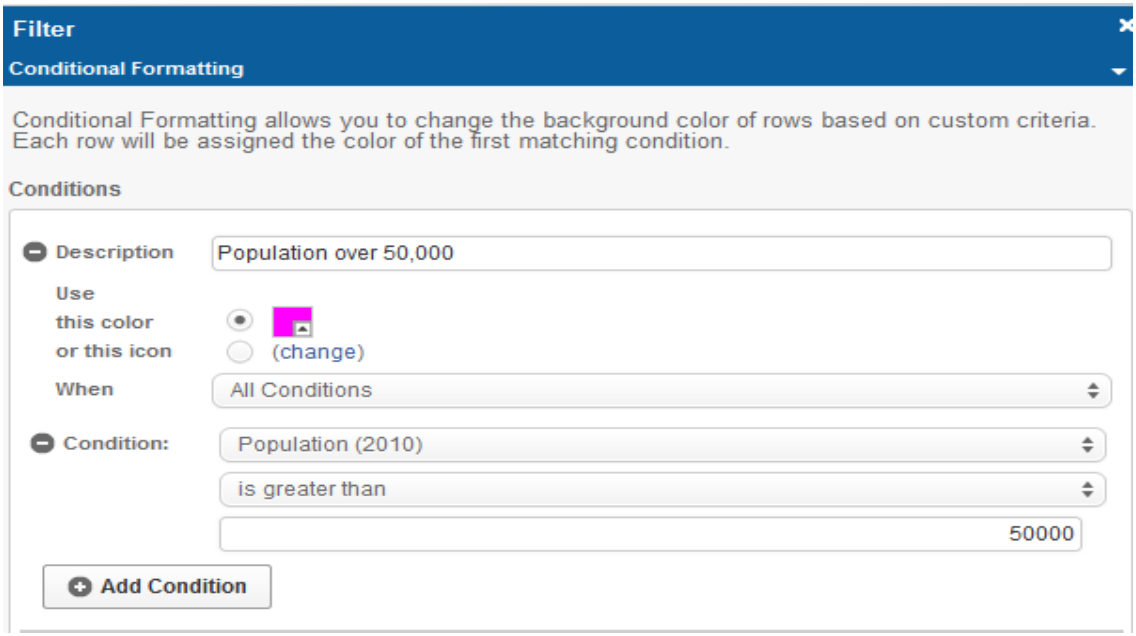


Point Map Only: Under the Legend Configuration, there are options to select the position of the legend, add custom legend entries, and a 'Describe conditional formats' check box.



To add a conditional format, select the Filter button  from the upper right hand menu.

Select the Conditional Formatting section. Input a description, choose a color or icon change, define the conditions, and select apply. In the example below, we selected a color to identify cities with populations over 50,000.

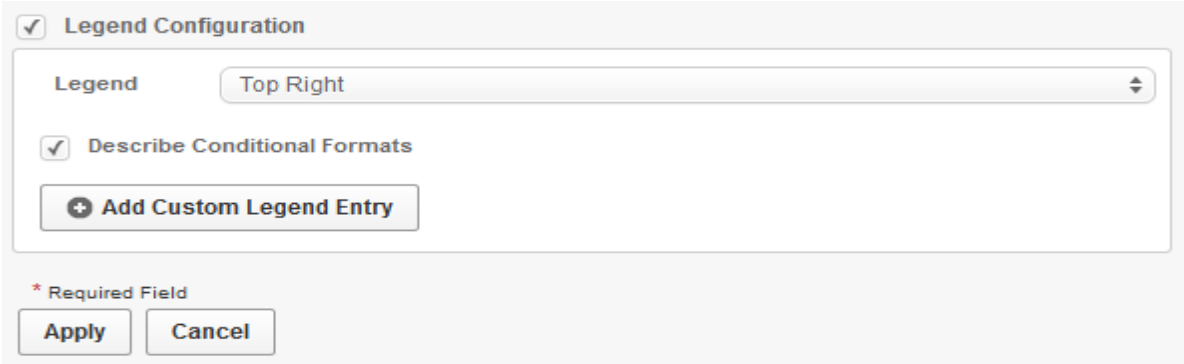


Navigate back to the Visualize button 

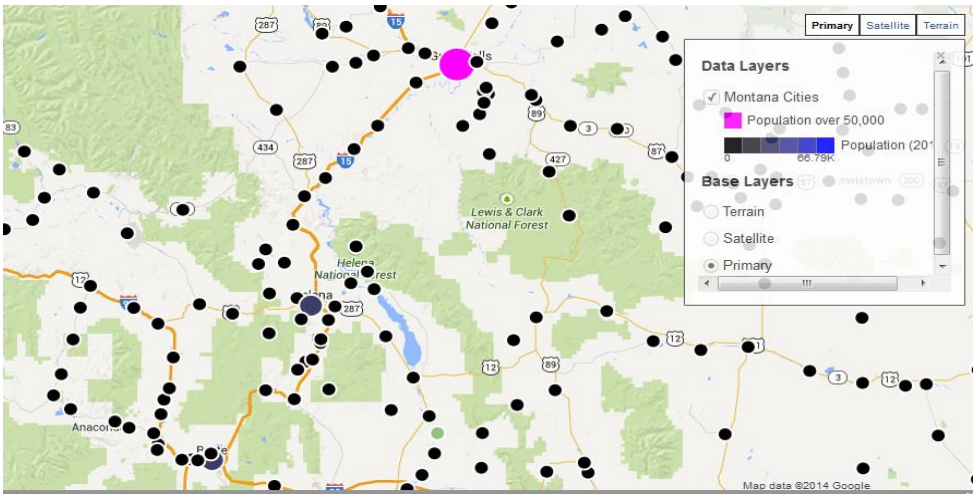
, and scroll down to the 'Legend Configuration' section.

If you would like to customize your legend, select the 'add custom legend entry' section.

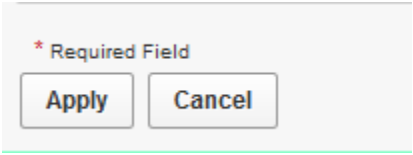
Select the 'Describe Conditional Formats' check box.



Point Map



Point and Heat Maps: Select the apply button to refresh



Point and Heat Maps: Save your view if it is an existing view or select save as to create a new chart view.