
Before you begin: Access Library in the Education sandbox

The Education sandbox is a shared, cloud-based environment to help you learn about and experiment with MicroStrategy Web and Library.

Use the Education sandbox to complete various report and dossier exercises. Complete the steps below to access the sandbox.

Access Library in the Education sandbox

- 1 In your browser, navigate to **education.microstrategy.com/MicroStrategy/servlet/mstrWeb**.
- 2 Log in to the sandbox with your **MicroStrategy Account** credentials.
Open the Tutorial project
- 3 The MicroStrategy landing page opens. Click the **MicroStrategy Tutorial** project.



MicroStrategy Tutorial

MicroStrategy Tutorial project and application set designed to illustrate the platform's rich functionality. The theme is an Electronics, Books, Movies and Music store. Employees, Inventory, Finance, Product Sales and Suppliers are analyzed.
Server name ENV-218880LAIOUSE1

The MicroStrategy Tutorial home page opens.

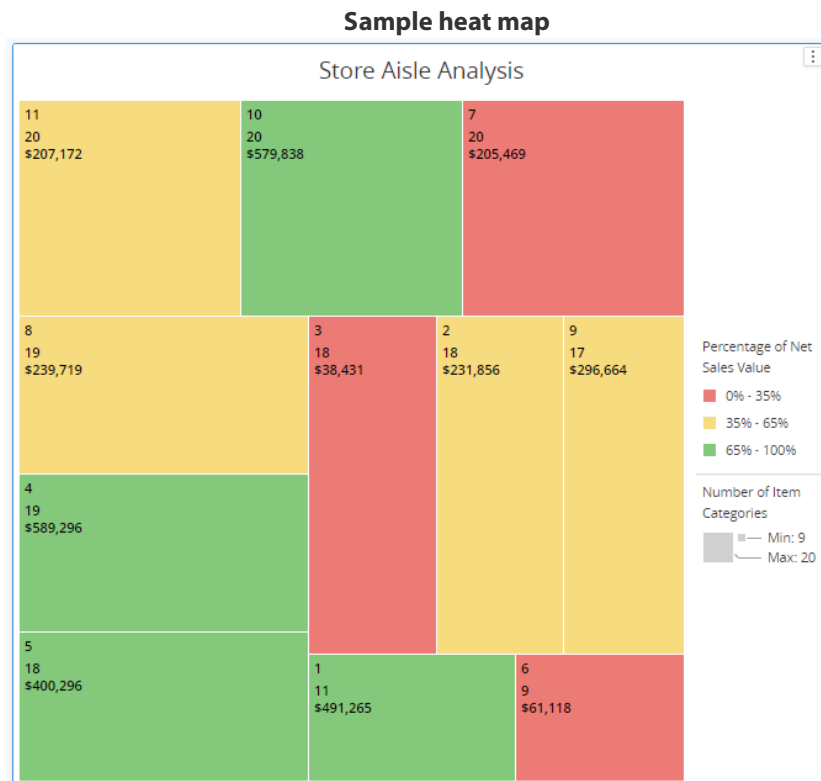
- 4 Click **Go to MicroStrategy Library**.
- 5 If prompted, enter your **MicroStrategy Account** credentials, and then click **Log in with Identity**.

Your Library home page displays.

Exercise: Create a heat map

As a store manager, you want to analyze the number of item categories and net sales value for each aisle in your store. This can help you understand which aisles are most successful and which aisles you might need to change.

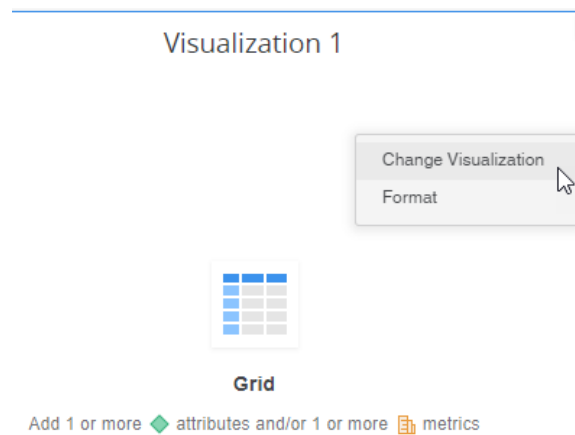
Your completed heat map looks like the image below, though the tiles might be arranged differently depending on the size of your browser window.



Create a heat map

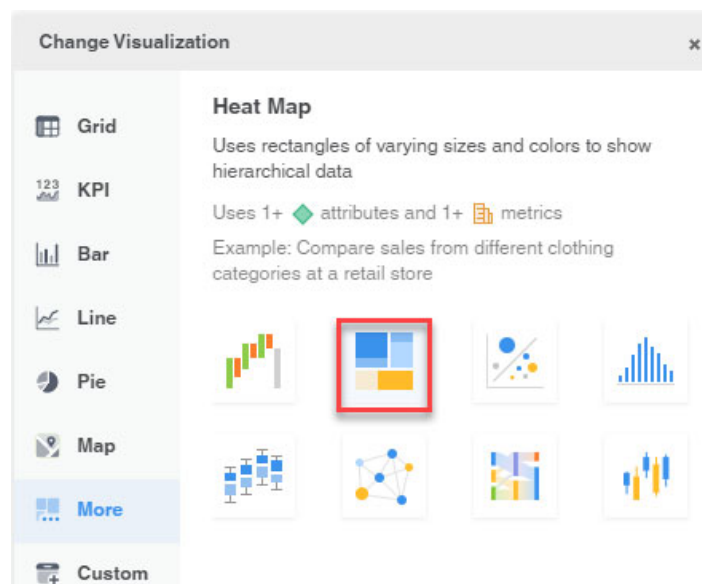
- 1 In the Education sandbox Library, open the **Visualization Types** dossier in Edit mode, if not already there. For a reminder on how to do this, see *Exercise: Access Library in the Education sandbox*, and *Exercise: Add the Visualization Types dossier to MicroStrategy Library*.
 - 2 In the Contents panel on the left, in the Comparing Categories chapter, click the **Heat Map** page.
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- 3 By default, a new page displays a blank grid visualization on the canvas. To change the visualization to a line chart, right-click inside the visualization and select **Change Visualization**.




The Change Visualization window opens, displaying the Visualization Gallery.

- 4 In the Visualization Gallery, point to **More**, and then click the **Heat Map** icon.



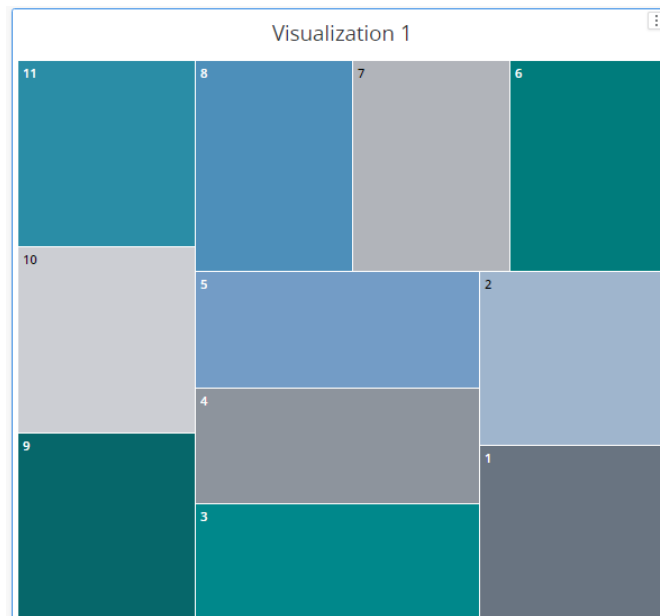
The dossier canvas displays a blank heat map.

- 5 The data you need for this analysis is stored in the Store Details dataset. In the Datasets panel, click the arrow icon ► to the left of the **Store Details** dataset to expand it. The dataset's attributes and metrics display.
- 6 To focus on the objects in the Store Details dataset rather than the other datasets, collapse any other datasets that are expanded by clicking the arrow icon ▼ to the left of the dataset name.
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7 Click the **Editor** icon  to display the Editor panel, if not already displayed.

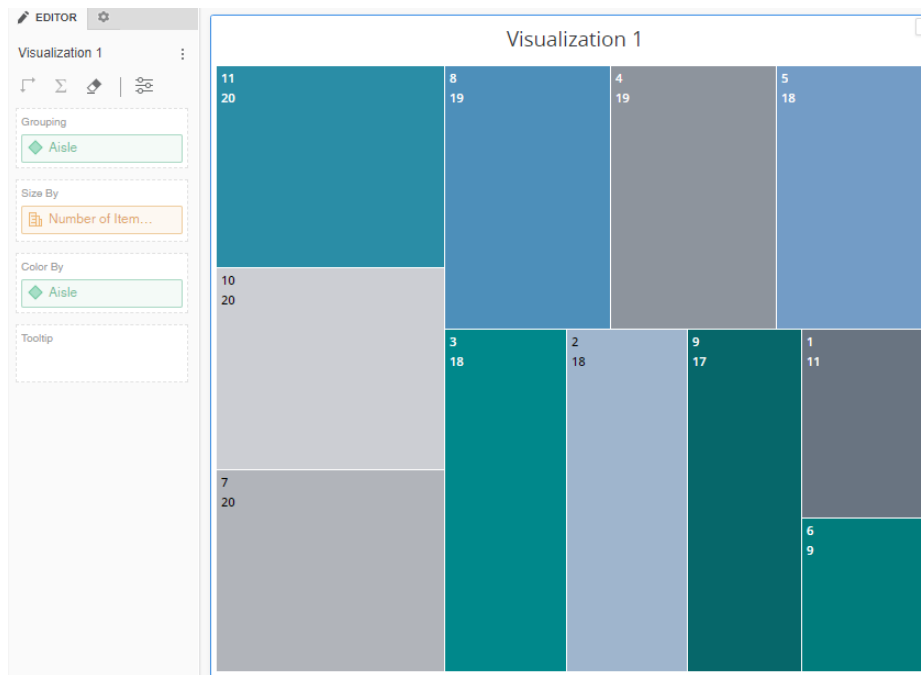
8 You want a tile to display for each aisle in your store. From the **Store Details** dataset, double-click the **Aisle** attribute to add it to the **Grouping** and **Color By** drop zones in the Editor panel.

A tile displays for each aisle, and the aisle number displays in the upper left of the tile.

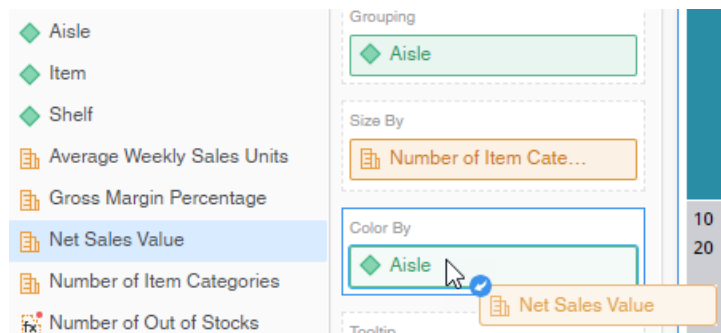


9 The tiles are all the same size. You want to size the tiles based on the number of item categories in each aisle. Double-click the **Number of Item Categories** metric to add it to the **Size By** drop zone.

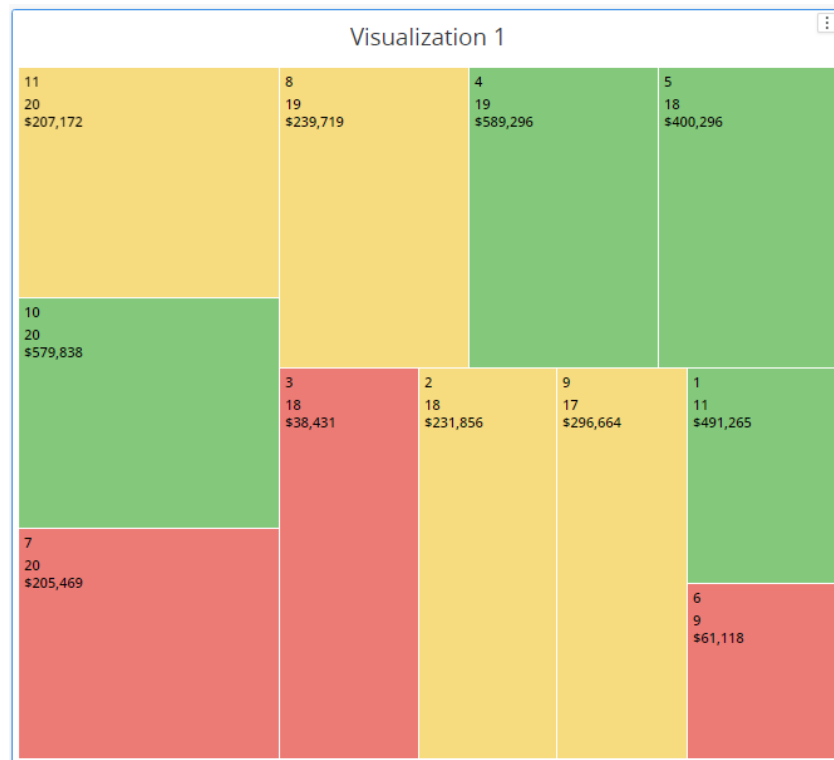
Each tile is now sized by the number of item categories in the aisle, and the number of item categories displays below the aisle number in the upper left of the tile.




- 10** Instead of aisle, you want to use net sales to determine the color of each tile. Drag **Net Sales Value** to the **Color By** drop zone, replacing **Aisle**.

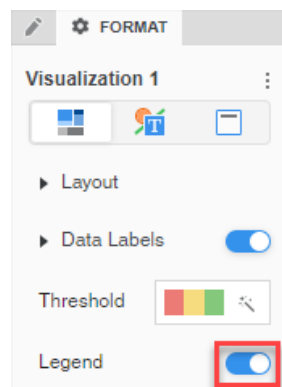


Aisles that contribute more to net sales (have higher net sales values) are colored green; aisles that contribute less net sales are colored red; those in the middle are colored yellow.

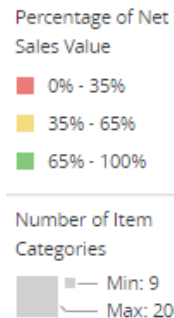


11 You want to show a legend to help users quickly understand what the different sizes and colors represent. Click the **Format** icon  to display the Format panel.

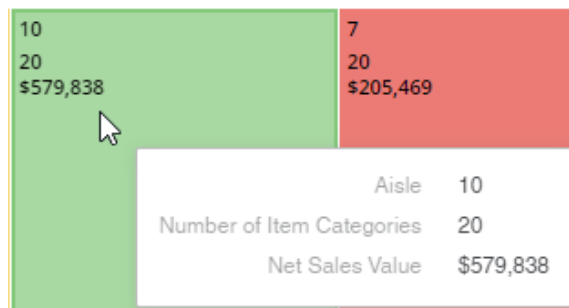
12 Enable **Legend**.



The legend displays to the right of the heat map. Users can see that the tiles are colored by the percentage contribution to net sales and sized by the number of item categories.



- 13** Hover over a tile to display a tooltip with data details, as shown in the image below.



- 14** To rename the visualization, double-click the **Visualization 1** title, and type **Store Aisle Analysis**. Your heat map looks like *Sample heat map*.
- 15** Click **Save** in the upper right of the dossier toolbar.

Analyze the heat map

- 1** Think through the types of analysis that heat maps are useful for, and how the characteristics of a heat map might impact the ease of analysis, as you use the heat map to answer the following questions:
- How quickly can you determine which aisles had the highest net sales value?

The legend to the right of the heat map indicates that aisles with the highest percentage contribution of net sales (65%-100%) display in green. The colors make it easy to see at a glance which aisles have the highest net sales.

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- How quickly can you determine which aisles had the highest number of item categories?

The legend to the right of the heat map indicates that aisles with fewer item categories display smaller than aisles with more item categories. The sizing makes it easy to compare aisles that differ greatly in the number of item categories, but it is harder to use the sizing to compare aisles with a similar number of item categories.

- How quickly can you determine if aisles with more item categories tend to have higher net sales? Is there a different type of visualization you might use to determine this?
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