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Custom Styles

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Adding custom styles to visuals

Custom styles enable you to apply styling to a particular element. You can customize each visual to use CSS classes, included styles, and in-line CSS code.

When applying custom styles in , you may use several approaches:

- Defining site-wide custom styles
- Adding custom styles to dashboards
- Adding custom styles to apps
- Configuring custom styles for dashboard filters

Custom styles enable you to isolate the styling to a particular element.



Note: The custom styling option is turned off by default. It can be turned on by a user with administrative privileges.

To get to the options in the Custom Style menu of the visual, follow these steps:

1. On the right side of Visual Designer, click the Custom Style menu.

2. Consider the following options available on the Custom Style menu:
- Adding CSS Classes to Visuals
 - Adding Included Styles to Visuals
 - Adding Inline CSS code to Visuals

CUSTOM STYLE

Enter CSS classes for the visual

When using multiple classes, separate them by spaces. These classes add to the existing CSS classes of the visual's container.

Included Styles

+ Add Style

Enter inline CSS below

Autocomplete on

Data

Settings

Colors

Style

Custom Style

Segments

Related Information

[Defining site-wide custom styles](#)

[Adding custom styles to dashboards](#)

- [Adding custom styles to apps](#)
- [Configuring custom styles for dashboard filters](#)
- [Adding CSS Classes to Visuals](#)
- [Adding Included Styles to Visuals](#)
- [Adding Inline CSS code to Visuals](#)

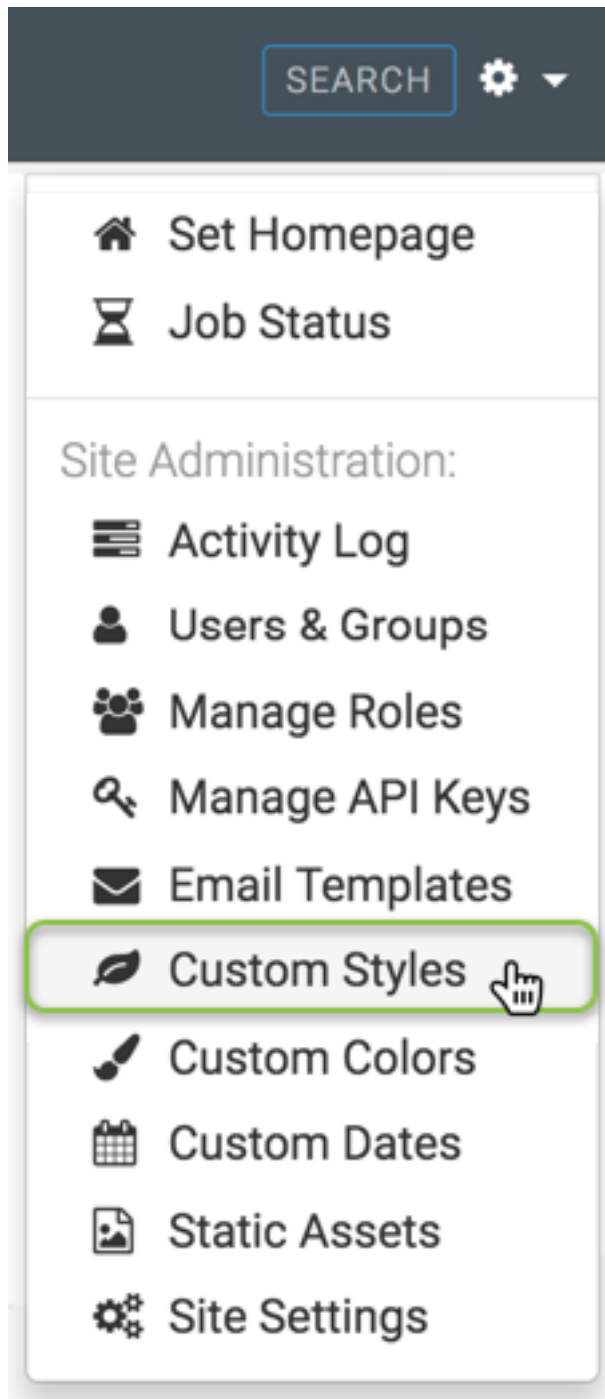
Defining site-wide custom styles

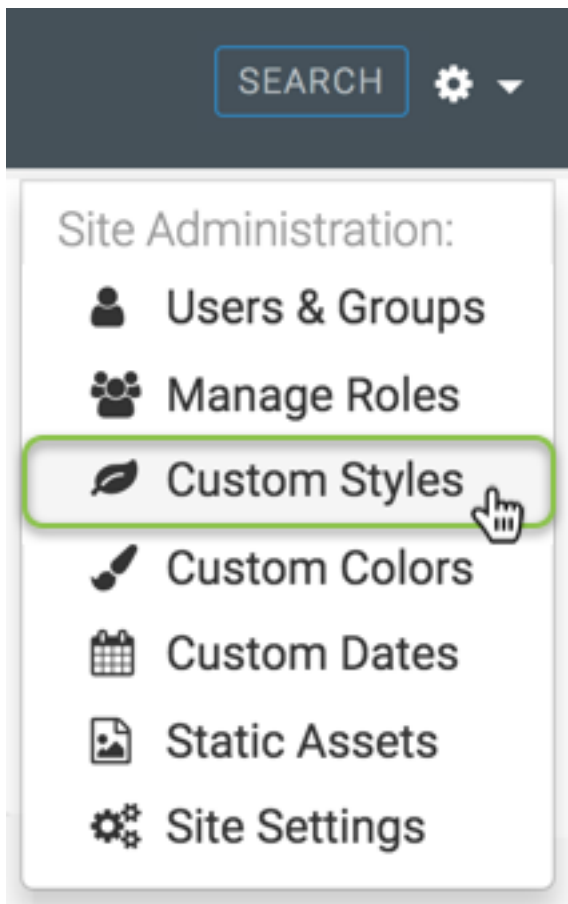
About this task

To define styling for the entire site, follow these steps:

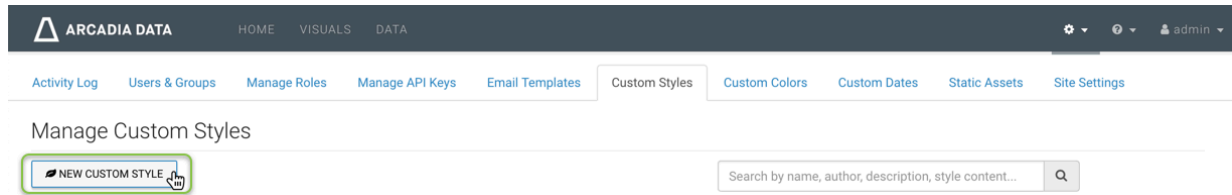
Procedure

1. Click the Gear icon at the top menu to open the Administration menu, and select Custom Styles.

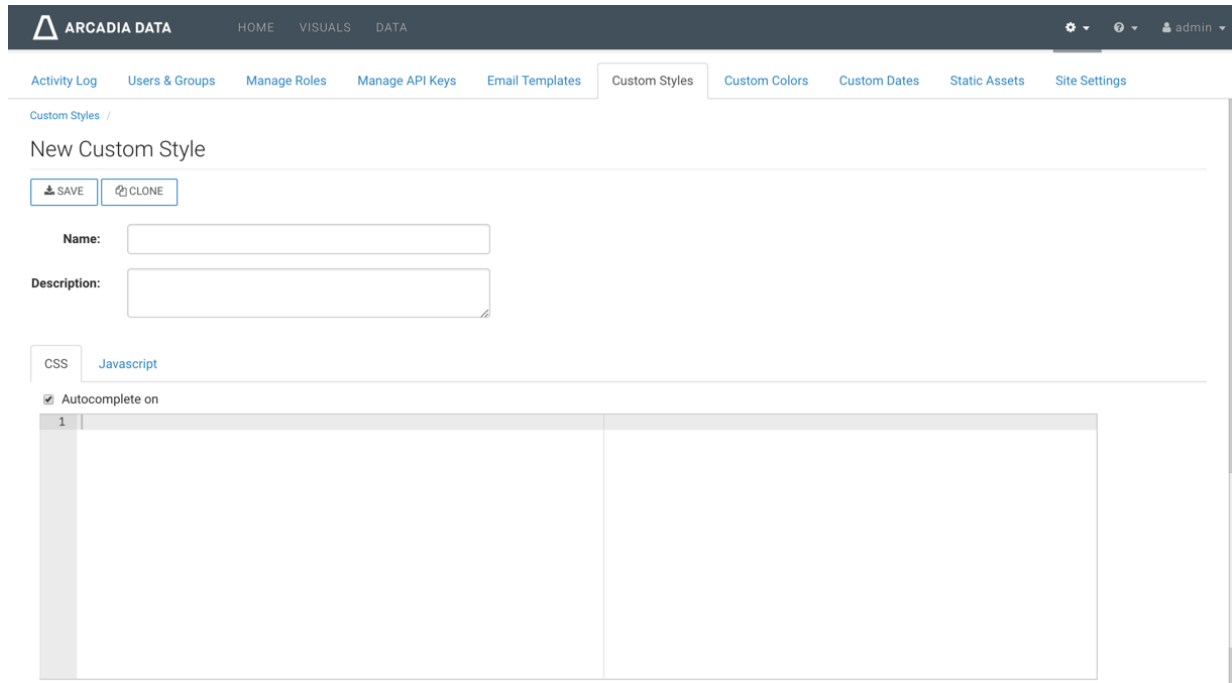




2. In the Manage Custom Styles window, click New Custom Style and click Save.



The New Custom Style interface appears.



3. Add the Name of the new custom style, and optionally, its Description.
4. Click Save.
5. Depending on your permissions, you can add CSS and Javascript (JS) styling:
 - [CSS custom styles](#) on page 9
 - [JavaScript custom styles](#) on page 12

CSS custom styles

About this task

To define styling for the entire site using CSS code, follow these steps:

Procedure

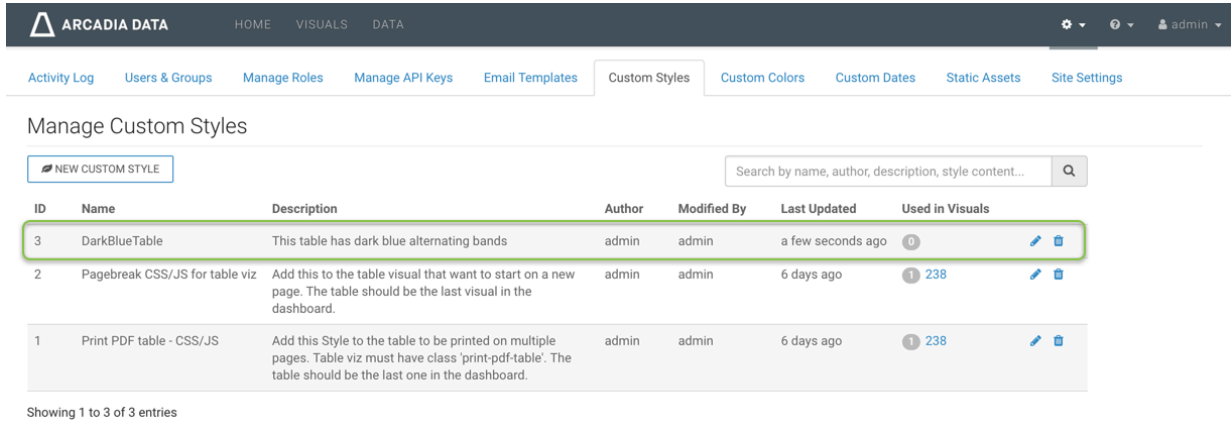
1. Follow the steps in *Defining site-wide custom styles*.
2. In the Manage Custom Styles window, under Name, enter DarkBlueTable.
3. To add CSS instructions, enter the following code:

```
.table{
    background-color:#336699;
```

}
ARCADIA DATA HOME VISUALS DATA
Activity Log Users & Groups Manage Roles Manage API Keys Email Templates Custom Styles
Custom Styles /
New Custom Style
SAVE CLONE
Name: DarkBlueTable
Description: This table has dark blue alternating bands
CSS Javascript
 Autocomplete on
1 .table{
2 background-color:#336699;
3 }

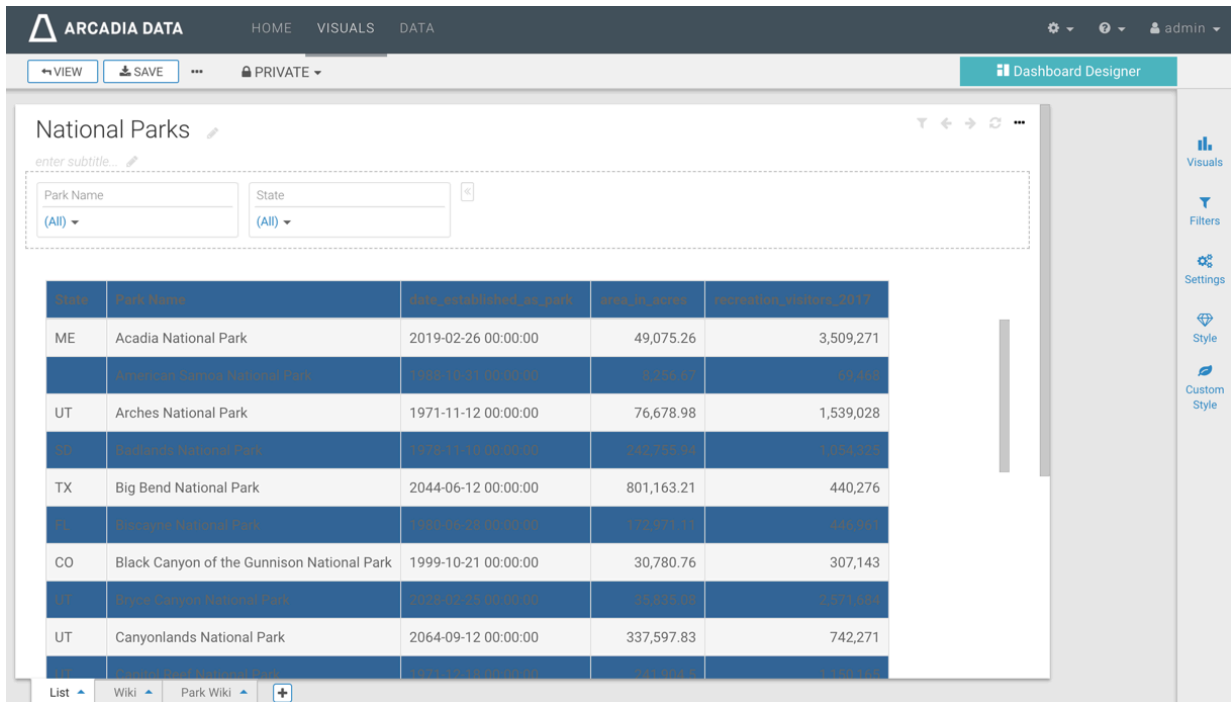
4. Click Save.

5. Notice that the Manage Custom Styles window contains the new style.



For information on how to include the new style in visual, see *Adding custom styles to visuals*.

When selected for a visual that contains a table, the style DarkBlueTable gives the table the specified coloring scheme, much like the following image.



Note that the Manage Custom Styles interface keeps track of all visuals that use each defined style. In the following image, you can see the reporting after applying the style DarkBlueTable to visualization 15. Note also that the number 15 is an active link to that visualization.

ARCADIA DATA HOME VISUALS DATA admin

Activity Log Users & Groups Manage Roles Manage API Keys Email Templates Custom Styles Custom Colors Custom Dates Static Assets

Site Settings

Manage Custom Styles

NEW CUSTOM STYLE Search by name, author, description, style content... Q

ID	Name	Description	Author	Modified By	Last Updated	Used in Visuals
3	DarkBlueTable	This table has dark blue alternating bands	admin	admin	30 minutes ago	1 264
2	Pagebreak CSS/JS for table viz	Add this to the table visual that want to start on a new page. The table should be the last visual in the dashboard.	admin	admin	6 days ago	1 238
1	Print PDF table - CSS/JS	Add this Style to the table to be printed on multiple pages. Table viz must have class 'print-pdf-table'. The table should be the last one in the dashboard.	admin	admin	6 days ago	1 238

Showing 1 to 3 of 3 entries

Related Information

[Defining site-wide custom styles](#)

[Adding custom styles to visuals](#)

JavaScript custom styles

About this task



Note: This feature is limited to users who have both Manage custom styles and Manage dataset privileges. For more information on role-based access in CDP Data Visualization, see *RBAC Permissions*.

To define styling for the entire site using JavaScript (JS) code, follow these steps:

Procedure

1. Click the Gear icon at the top menu to open the Site Administration menu, and select Custom Styles. See *Defining site-wide custom styles*.
2. In the Manage Custom Styles interface, click New Custom Style, and then select the JavaScript tab.

- If you enable the Autocomplete on option, and then type arc, you can choose from a list of Arcadia-specific APIs, such as `arcapi.settings`, `arcapi.getSettings`, `arcapi.sendParameters`, `arcapi.getParameters`, and so on.

△ **ARCADIA DATA**
HOME VISUALS DATA

Custom Styles /

New Custom Style

↓ SAVE
📄 CLONE

Name:

Description:

CSS

Javascript

Autocomplete on

i 1 (Arc)

afterDraw (Arc)	snippet	afterDraw (Arc)
addScripts (Arc)	snippet	
addStyles (Arc)	snippet	
data (Arc)	snippet	
chartId (Arc)	snippet	
disableDraw (Arc)	snippet	
getParameters (Arc)	snippet	
sendParameters (Arc)	snippet	
return (Arc)	snippet	
getAllSettings (Arc)	snippet	
settings (Arc)	snippet	
beforeDraw (Arc)	snippet	
supported (Arc)	snippet	
getSettings (Arc)	snippet	

afterDraw (Arc)

afterDraw: function () \

body

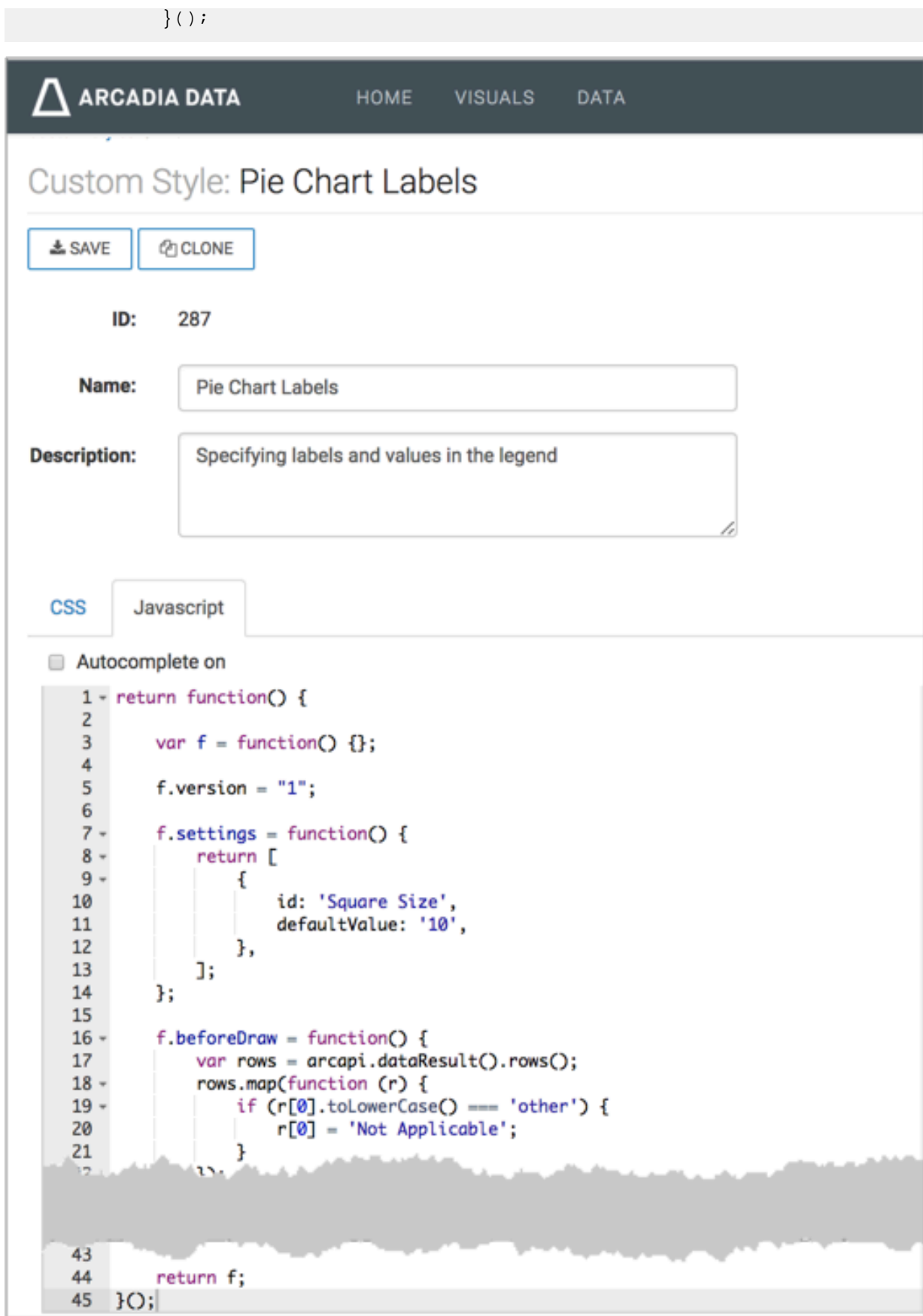
- Under Name, enter Pie Chart Labels.
- Under Description, enter Specifying labels and values in the legend.
- Under the JavaScript tab, add the following code to change the name of one the labels and add values after the label name.

```
return function() {
  var f = function() {};
  f.version = "1";
  f.settings = function() {
    return [
      {
        id: 'Square Size',
        defaultValue: '10',
      },
    ];
  };
  f.beforeDraw = function() {
```

```
var rows = arcapi.dataResult().rows();
rows.map(function (r) {
  if (r[0].toLowerCase() === 'other') {
    r[0] = 'Not Applicable';
  }
});
arcapi.dataResult().rows(rows);
};
f.afterDraw = function() {
  var rows = arcapi.dataResult().rows();
  var length = $('#' + arcapi.chartId() + ' .viz-base-legend-g'
).children('text').length;
  var total = d3.sum(rows, function(row) { return +row[1]; });
  var legendlabel;
  var fmt = d3.format(",");

  rows.forEach(function(d, i) {
    for (var c=0; c < length; c++) {
      legendlabel = $('#' + arcapi.chartId() + ' .viz-base-legend-g
text')[c].innerHTML;
      if(legendlabel == d[0]){
        $('#' + arcapi.chartId() + ' .viz-base-legend-g text')[c].inn
erHTML = legendlabel + ' (' + fmt(+d[1]) + ')';
      }
    }
  });
};
return f;
```

```
}();
```



ARCADIA DATA HOME VISUALS DATA

Custom Style: Pie Chart Labels

[SAVE](#) [CLONE](#)

ID: 287

Name: Pie Chart Labels

Description: Specifying labels and values in the legend

CSS **Javascript**

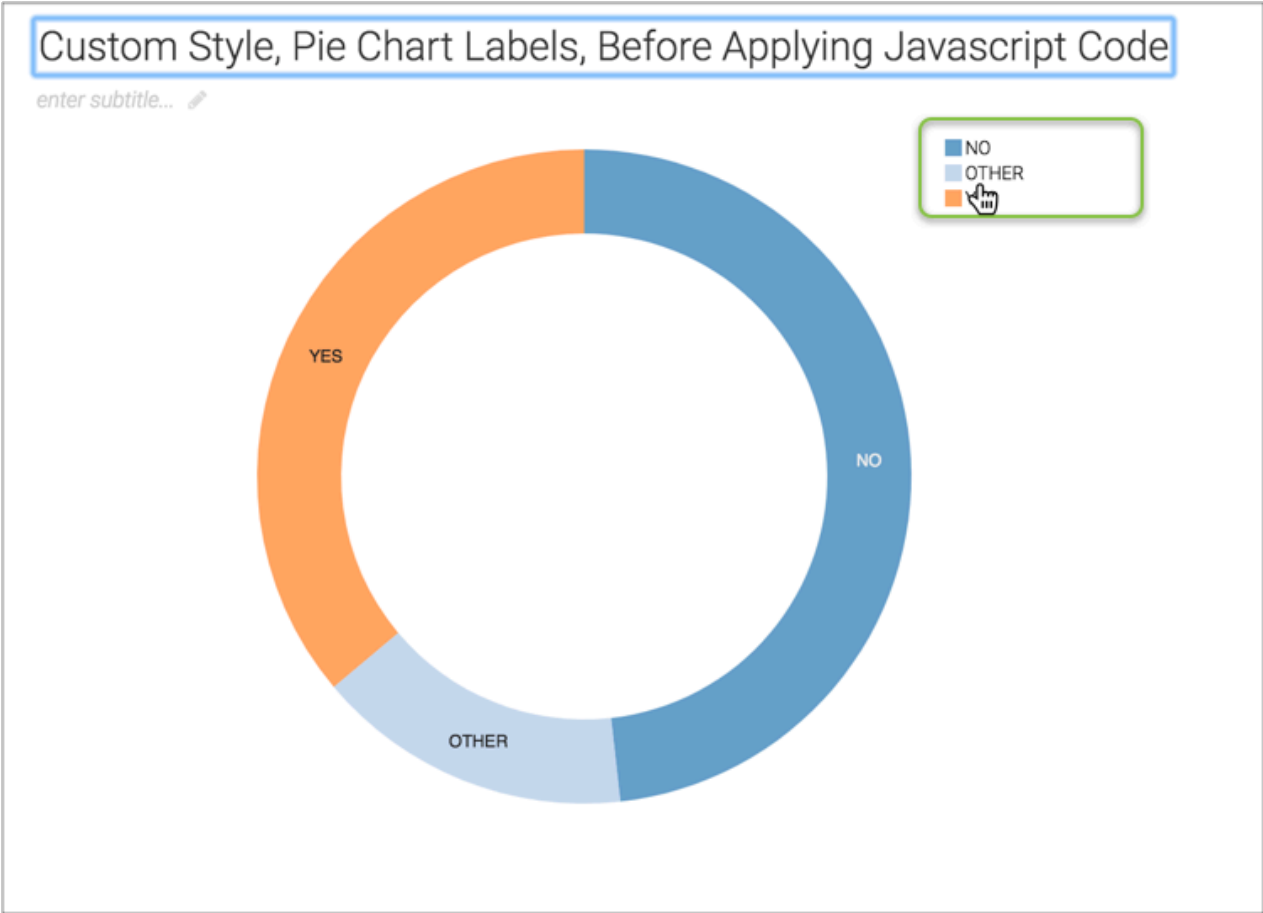
Autocomplete on

```
1 return function() {
2
3   var f = function() {};
4
5   f.version = "1";
6
7   f.settings = function() {
8     return [
9       {
10        id: 'Square Size',
11        defaultValue: '10',
12      },
13    ];
14  };
15
16  f.beforeDraw = function() {
17    var rows = arcapi.dataResult().rows();
18    rows.map(function (r) {
19      if (r[0].toLowerCase() === 'other') {
20        r[0] = 'Not Applicable';
21      }
22    });
23  };
24
25  return f;
26 }();
```

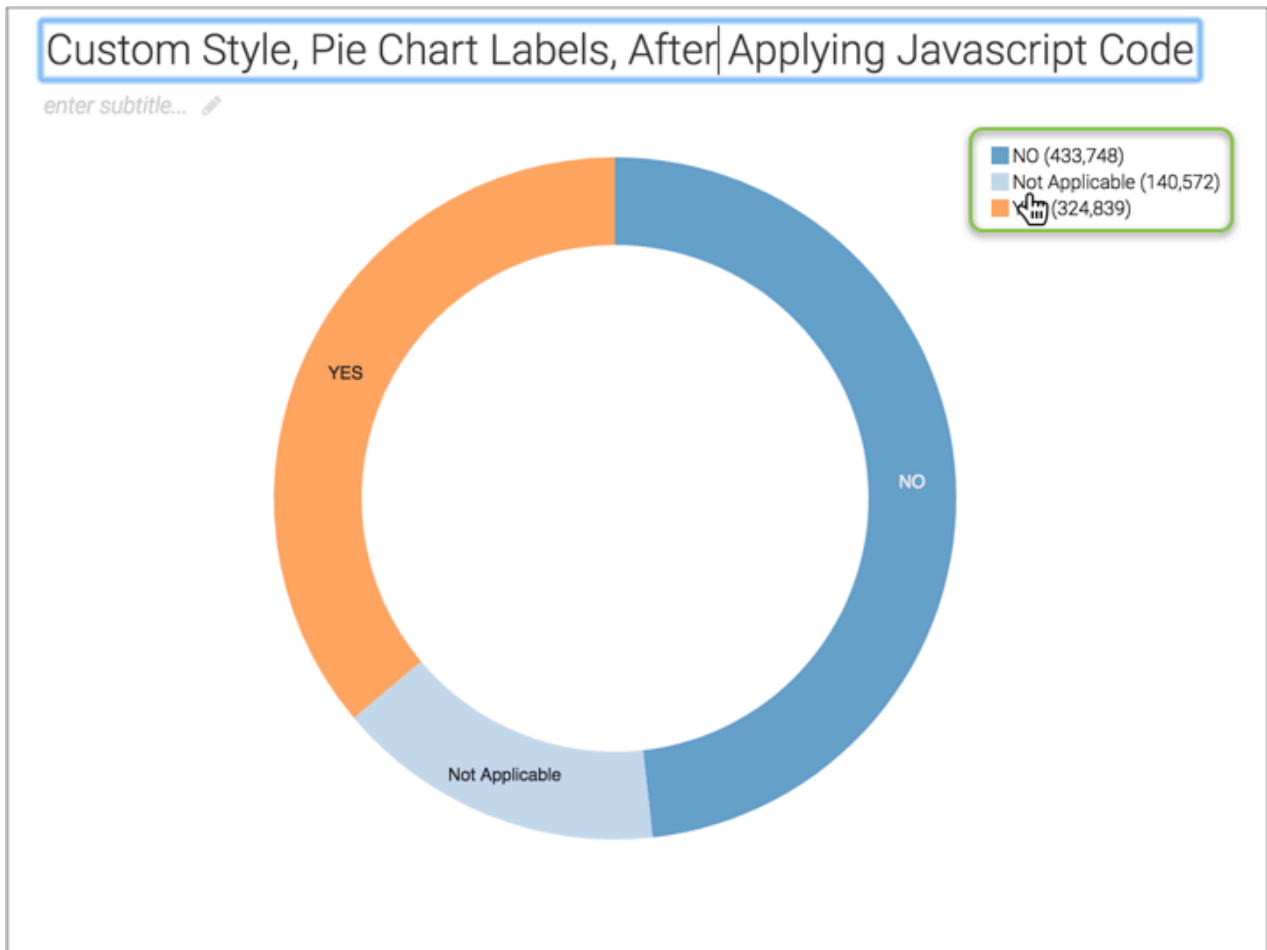
7. Click Save.

Results

The following image shows the pie chart before applying the JavaScript code. The legend in the pie chart displays label names without values. Also, one of the labels is named Other.



The following image shows the pie chart after applying the JavaScript code. The legend in the pie chart now displays the values in the legend. Also, the second legend label name is renamed from Others to Not Applicable.



Note that the Custom Styles interface keeps track of all visuals that use each defined style.

Here, you can see that the Custom Styles interface lists the new style, Pie Chart Labels, and that it applies to visualization with ID 6700. Note also that this ID is an active link to the visualization.

ID	Name	Description	Used in Visuals
287	Pie Chart Labels	Specifying labels and values in the legend	6700

Related Information

- [Defining site-wide custom styles](#)
- [RBAC Permissions](#)

Modifying site-wide custom styles

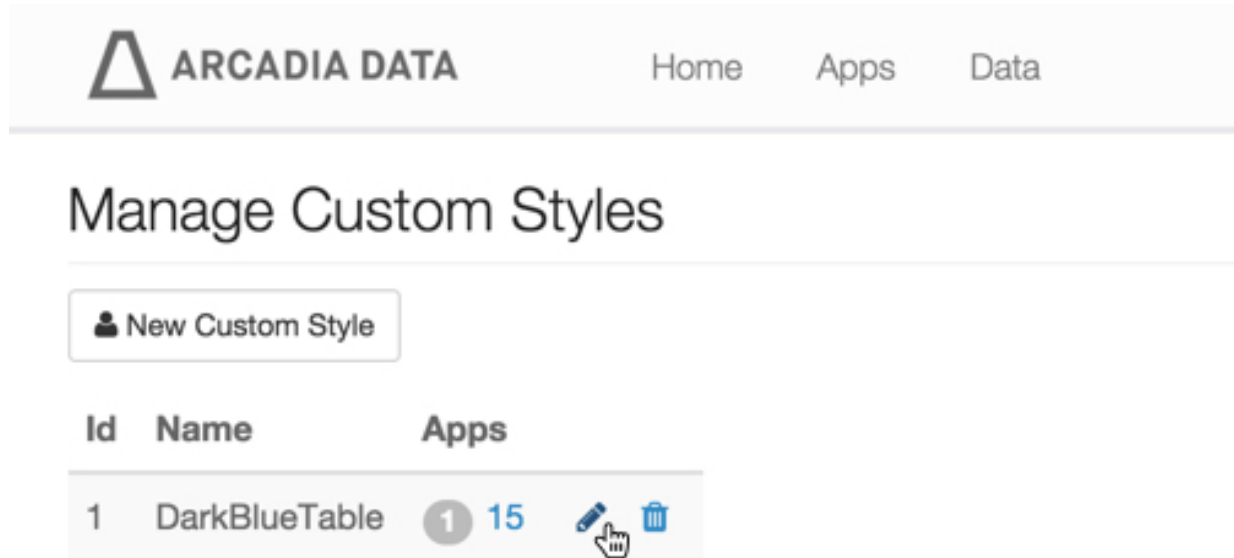
About this task

To edit the existing site-wide custom styles, follow these steps.

Procedure

1. In the Manage Custom Styles window, click the Pencil icon next to the custom style you want to edit.

In this case, we are editing the custom style DarkBlueTable.



2. In the Custom Style: DarkBlueTable window, make the necessary changes, and then click Save.

You can also rename the style to DarkBlueTableBar.

In this example, we clicked the Javascript tab, and added some code to convert the last aggregate column to a proportionally sized horizontal bar.

```
return {
  version: "1",
  afterDraw: function() {
    var d = arcapi.dataResult();
    var rows = d.rows();
    var aggColIndex = -1;
    d.columns().forEach(function(col) {
      if (col.colproperty() == 2) {
        aggColIndex = col.colindex();
      }
    })

    if (aggColIndex < 0) {
      return;
    }


    console.log(aggColIndex);
    var extent = d3.extent(rows, function(row) {
      return +row[aggColIndex];
    });

    var scale = d3.scale.linear()
      .domain(extent)
      .range([5, 80]);

    console.log(extent);
    d3.selectAll("#" + arcapi.chartId() + " .table tbody tr :nth-child(" + (aggColIndex + 1) + ")")
      .text("")
  }
}
```


```
.append("div")
.style("background-color", "black")
.style("height", "15px")
.style("width", function(d, i) {
var m = +rows[i][aggColIndex];
var w = scale(m);
return w + "px";
});
}
```

```
};
```

 ARCADIA DATA Home Apps Data ⚙️ Help admin

Custom Styles / 1

Custom Style: DarkBlueTable

 Save

ID: 1

Name:

CSS Javascript


Autocomplete on

```
1 return {
2   version: "1",
3
4   afterDraw: function() {
5     var d = arcapi.dataResult();
6     var rows = d.rows();
7     var aggColIndex = -1;
8     d.columns().forEach(function(col) {
9       if (col.colproperty() == 2) {
10        aggColIndex = col.colindex();
11      }
12    });
13
14    if (aggColIndex < 0) {
15      return;
16    }
17
18    console.log(aggColIndex);
19    var extent = d3.extent(rows, function(row) {
20      return +row[aggColIndex];
21    });
22  }
```

The resultant changes in the table visual.


year	state	sum(population)
2010	AR	█
2010	CA	██████████
2010	VA	██
2010	LA	█
2010	ME	█
2010	WY	█
2010	TN	██
2010	AK	█
2010	MO	██
2010	TX	██████

Note also that because we changed the name of an existing custom style to DarkBlueTableBar, there is a corresponding update in the Manage Custom Styles window.


ARCADIA DATA

[Home](#)
[Apps](#)
[Data](#)

Manage Custom Styles

 New Custom Style

Id	Name	Apps
1	DarkBlueTableBar	<div style="display: flex; align-items: center; gap: 10px;"> 1 15 ✎ 🗑️ </div>

Deleting site-wide custom styles

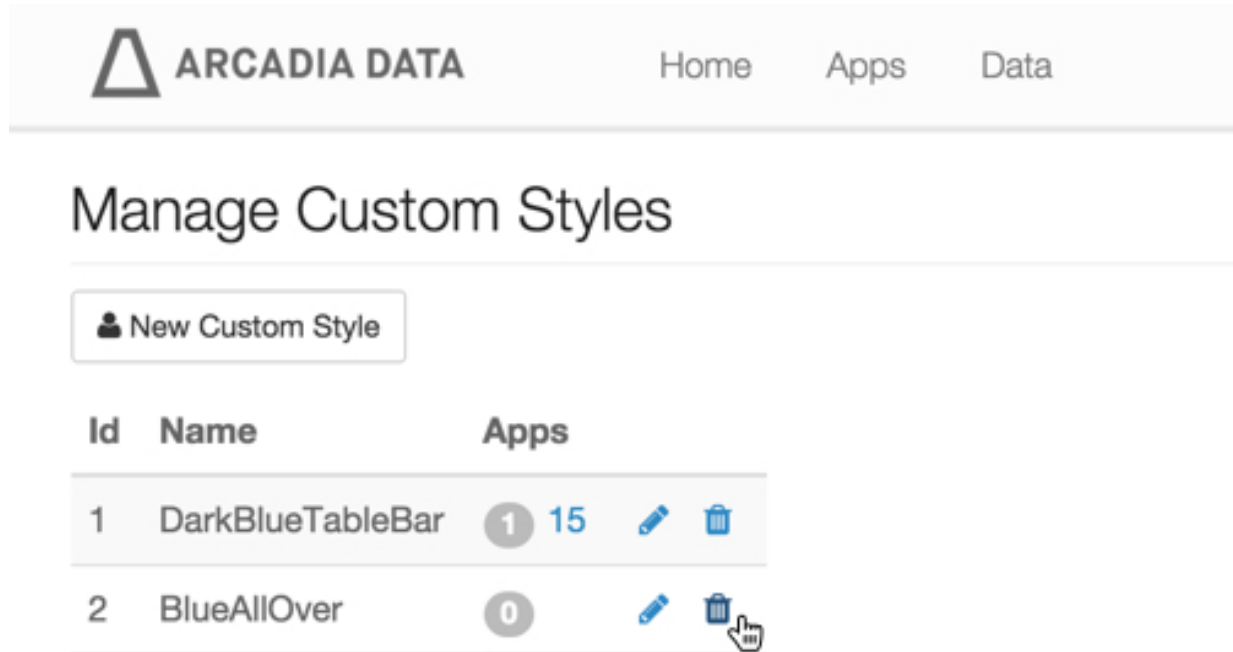
About this task

To remove existing site-wide custom styles, follow these steps.

Procedure

1. In the Manage Custom Styles window, click the Trashcan icon next to the custom style you want to edit.

In this example, we are deleting the custom style BlueAllOver.



The screenshot shows the 'Manage Custom Styles' interface. At the top, there is a navigation bar with 'ARCADIA DATA' and links for 'Home', 'Apps', and 'Data'. Below the navigation bar is a 'New Custom Style' button. The main content is a table with columns 'Id', 'Name', and 'Apps'. The table contains two rows: '1 DarkBlueTableBar' with 1 app and 15 instances, and '2 BlueAllOver' with 0 apps and 0 instances. The 'BlueAllOver' row is highlighted, and the Trashcan icon next to it is being clicked.

Id	Name	Apps
1	DarkBlueTableBar	1 15
2	BlueAllOver	0

2. In the Delete Confirmation window, type DELETE, and then click Delete.



The screenshot shows the 'Delete Confirmation' dialog box. The title bar says 'Delete Confirmation'. The main text reads: 'Custom Style BlueAllOver will be deleted'. Below this, it says: 'To confirm, type in the word DELETE in the field below and then click the Delete button.' There is a text input field containing the word 'DELETE'. At the bottom right, there are two buttons: 'Cancel' and 'Delete'.

Results

The recently deleted style is no longer listed in the Manage Custom Styles window.

ARCADIA DATA Home Apps Data

Manage Custom Styles

New Custom Style

Id	Name	Apps
1	DarkBlueTableBar	1 15

Searching site-wide custom styles

enables you to search site-wide custom styles by Name, Description, Author, and Modified By fields. You can also search by the content of CSS and Javascript code.

About this task

When you start typing characters in the search text box, the search results display the exact match on the top, followed by the closest matches. You must type at least two characters to start the search.

To demonstrate how to search site-wide custom styles, follow these steps:

Procedure

1. In the Manage Custom Styles interface, create new custom styles or use the existing styles.

You can find the search text box on the top right.

ARCADIA DATA HOME VISUALS DATA SEARCH admin

Activity Log Users & Groups Manage Roles Manage API Keys Email Templates Custom Styles Custom Colors Custom Dates Static Assets Site Settings

Manage Custom Styles

NEW CUSTOM STYLE

Search by name, author, description, style content...

ID	Name	Description	Author	Modified By	Last Updated	Used in Visuals
3	Dark Blue Table Bar	Convert an aggregate column to a proportionally sized horizontal bar.	admin	admin	41 minutes ago	
2	Pie Chart Legend Labels	Change Labels	admin	admin	an hour ago	
1	Dark Blue Table	Alternate rows in dark blue color	admin	admin	an hour ago	

Showing 1 to 3 of 3 entries

- To demonstrate how to search the list of custom styles, enter Pie in the Search text box.

In this example, the Pie Chart Legend Label custom style is filtered from the list.

Manage Custom Styles

NEW CUSTOM STYLE

Pie

ID	Name	Description	Author	Modified By	Last Updated	Used in Visuals
2	Pie Chart Legend Labels	Change Labels	admin	admin	an hour ago	0 <input type="button" value="edit"/> <input type="button" value="delete"/>

Showing 1 to 1 of 1 entries

3. To search the list of custom styles by javascript code, follow these steps:
 - a) Click the Pencil icon next to the Pie Chart Legend Label to view the javascript code of this style.
In our example, we search by Not Applicable from the javascript code.

Custom Styles / ID: 2

Custom Style: Pie Chart Legend Labels

SAVE

CLONE

Name: Pie Chart Legend Labels

Description: Change Labels

CSS

Javascript

Autocomplete on

```
1 return function() {
2     var f = function() {};
3     f.version = "1";
4     f.settings = function() {
5         return [
6             {
7                 id: 'Square Size',
8                 defaultValue: '10',
9             },
10        ];
11    };
12    f.beforeDraw = function() {
13        var rows = arcapi.dataResult().rows();
14        rows.map(function (r) {
15            if (r[0].toLowerCase() === 'other') {
16                r[0] = 'Not Applicable';
17            }
18        });
19    };
20 }
```

- b) Enter Not Applicable in the Search text box.

In this example, the Pie Chart Legend Label custom style is filtered out of the list of custom styles.

Manage Custom Styles

NEW CUSTOM STYLE

Not Applicable Q

ID	Name	Description	Author	Modified By	Last Updated	Used in Visuals
2	Pie Chart Legend Labels	Change Labels	admin	admin	5 hours ago	0 ✎ 🗑

Showing 1 to 1 of 1 entries

Sorting site-wide custom styles

enables you to sort site-wide custom styles by ID, Name, Author, Modified By, Last Updated, and Used in Visuals fields. You can sort in ascending and descending order.

About this task



Note: You cannot sort by the Description field.

To demonstrate how to sort site-wide custom styles, follow these steps:

Procedure

1. In the Manage Custom Styles interface, create new custom styles or use the existing styles.

In this example, we are sorting by the name of the custom styles.

2. Click the Name field.

When you hover over a field, a hand icon appears only on the fields that you can sort.

Manage Custom Styles

NEW CUSTOM STYLE Search by name, author, description, style content...

ID	Name	Description	Author	Modified By	Last Updated	Used in Visuals
3	Dark Blue Table Bar	Convert an aggregate column to a proportionally sized horizontal bar.	admin	admin	19 hours ago	
2	Pie Chart Legend Labels	Change Labels	admin	admin	20 hours ago	
1	Dark Blue Table	Alternate rows in dark blue color	admin	admin	20 hours ago	

Showing 1 to 3 of 3 entries

In the following image, the Name field is sorted in ascending order and a sort icon appears next to the field.

Manage Custom Styles

NEW CUSTOM STYLE Search by name, author, description, style content...

ID	Name	Description	Author	Modified By	Last Updated	Used in Visuals
1	Dark Blue Table	Alternate rows in dark blue color	admin	admin	an hour ago	
3	Dark Blue Table Bar	Convert an aggregate column to a proportionally sized horizontal bar.	admin	admin	an hour ago	
2	Pie Chart Legend Labels	Change Labels	admin	admin	an hour ago	

Showing 1 to 3 of 3 entries

3. To sort the field in descending order, click the Name field again.