

## 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 Cloudera Data Visualization visual to use CSS classes, included styles, and in-line CSS code.

When applying custom styles in Cloudera Data Visualization, 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 on the main navigation bar to open the Administration menu.
2. Select Custom Styles.
3. In the Manage Custom Styles interface, click New Custom Style.

The New Custom Style interface appears.

4. Add the Name of the new custom style, and optionally, its Description.
5. Click SAVE.
6. Depending on your permissions, you can add CSS and Javascript (JS) styling:
  - [CSS custom styles](#) on page 6
  - [JavaScript custom styles](#) on page 8

## CSS custom styles

### About this task

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

### Procedure

1. Click the Gear icon on the main navigation bar to open the Administration menu.
2. Select Custom Styles.
3. In the Manage Custom Styles interface, under Name, enter DarkBlueTable.
4. To add CSS instructions, enter the following code:

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

}

## Custom Style: DarkBlue Table

SAVE

CLONE

**Name:**

**Description:**

CSS

Javascript

☒ Autocomplete on

```

1  tr:nth-child(even){
2    background-color:#336699;
3  }

```

- Click Save.
- 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.

cereal_name	manufacturer_code	cold_or_hot	calories	protein_grams	fat_grams	sodium_mg	dietary_fiber
100%_Bran	N	C	70	4	1	130	
100%_Natural_Bran	G	C	120	3	3	13	
All-Bran	K	C	70	4	1	260	
All-Bran_with_Fiber	K	C	90	4	2	140	
Almond_Delight	R	C	110	2	2	200	
Apple_Cinnamon_Cheerios	G	C	110	3	2	180	
Apple_Jacks	K	C	110	2	0	125	
Bran_2	G	C	130	3	2	210	

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.

### 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 Cloudera 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 on the main navigation bar to open the Administration menu.
2. Select Custom Styles.
3. 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.

[Custom Styles](#) /

## New Custom Style

SAVE

CLONE

Name:

Description:

CSS

JavaScript

☒ Autocomplete on

Method	Type
afterDraw (Arc)	snippet
addScripts (Arc)	snippet
addStyles (Arc)	snippet
data (Arc)	snippet
chartId (Arc)	snippet
disableDraw (Arc)	snippet
getParameters (Arc)	snippet
sendParameters (Arc)	snippet

**afterDraw (Arc)**

---

afterDraw: function () \n  
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() === 'all-bran') {
                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(",");

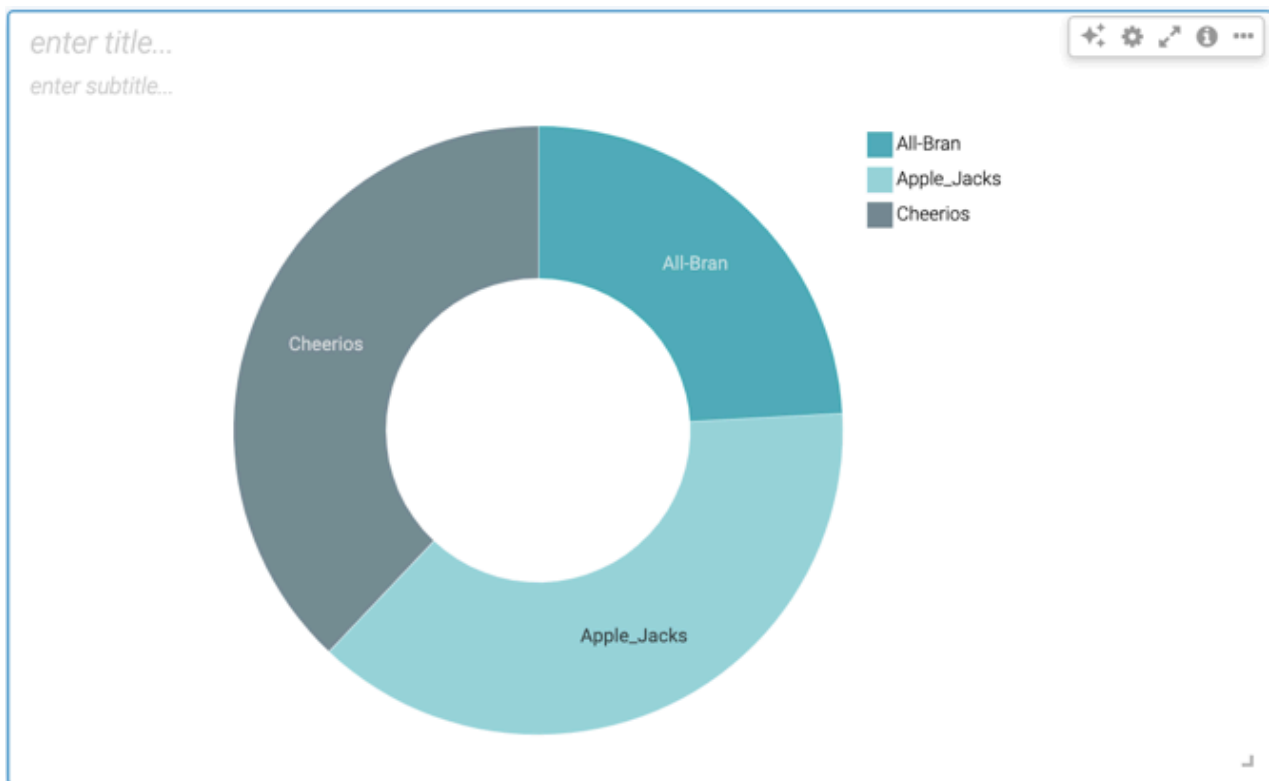
        rows.forEach(function(d, i) {
            for (var c=0; c < length; c++) {
                legendlabel = $(' #' + arcapi.chartId() + ' .viz-base-legend-g
                text')[c].innerHTML;
                if(legendlabel == d[0]){
                    $(' #' + arcapi.chartId() + ' .viz-base-legend-g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

```

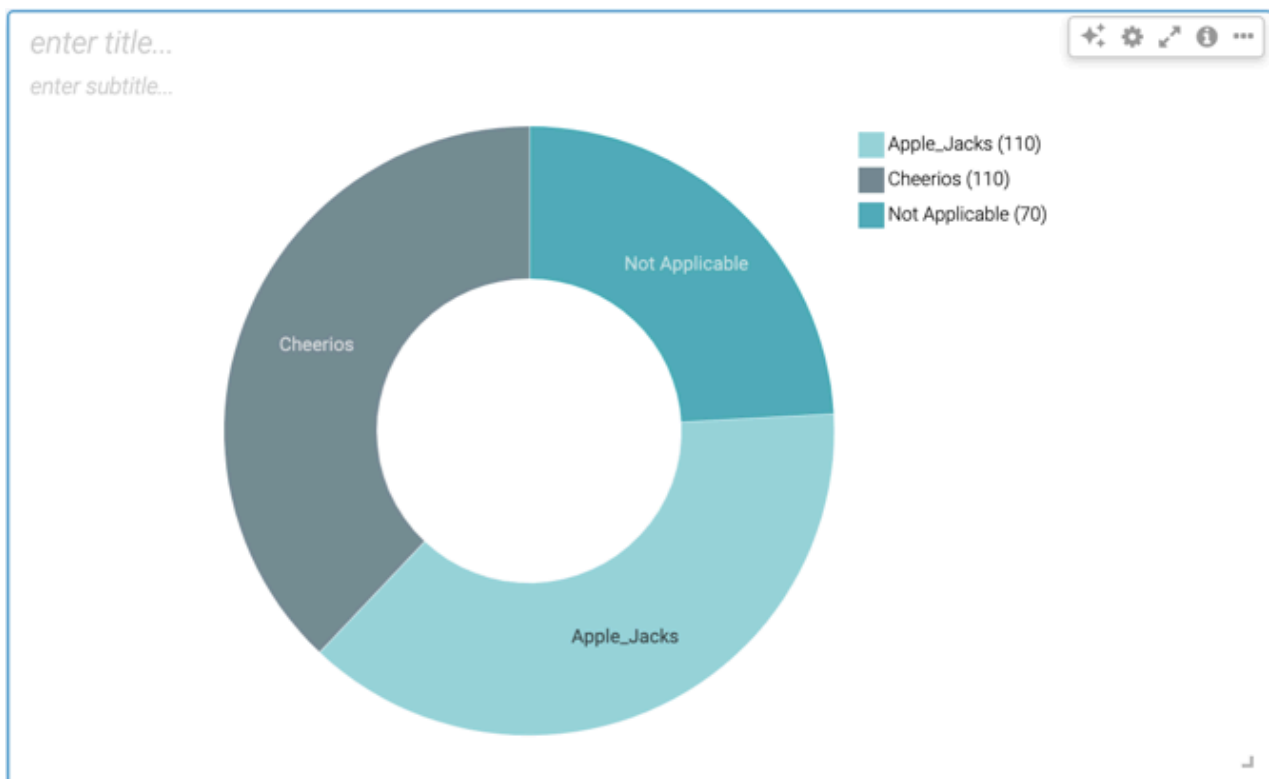
8. Click Save.

## 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 All-Bran.



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. The All-Bran legend label name is renamed 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.

## 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. Click the Gear icon on the main navigation bar to open the Administration menu.
2. Select Custom Styles.
3. In the Manage Custom Styles window, click the Pencil icon next to the custom style you want to edit.

In this case, the custom style DarkBlueTable is edited.

4. 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, the Javascript tab is selected, and some code is added 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";
});
}
};

```

The changes in the table visual:

stname ↕	sum(tot_pop) ↕
Alabama	■
Alaska	■
Arizona	■
Arkansas	■
California	■■■■■
Colorado	■
Connecticut	■
Delaware	■

As the name of an existing custom style has been changed to DarkBlueTableBar, there is a corresponding update in the Manage Custom Styles window.

## Deleting site-wide custom styles

### About this task


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






### Procedure

1. Click the Gear icon on the main navigation bar to open the Administration menu.

2. Select Custom Styles.
3. In the Manage Custom Styles interface, click the Trashcan icon next to the custom style that you want to edit.  
In this example, the custom style BlueAllOver will be deleted.

## Manage Custom Styles



Id	Name	Apps
1	DarkBlueTableBar	<div>115</div> <div> </div>
2	BlueAllOver	<div>0</div> <div>  </div>

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

Delete Confirmation

×

Custom Style **BlueAllOver** will be deleted

To confirm, type in the word DELETE in the field below and then click the Delete button.

Cancel


Delete 

### Results

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

## Manage Custom Styles

 New Custom Style

Id	Name	Apps
1	DarkBlueTableBar	1 15  

## Searching site-wide custom styles

Cloudera Data Visualization 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. Click the Gear icon on the main navigation bar to open the Administration menu.
2. Select Custom Styles.
3. 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.

4. 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  

Showing 1 to 1 of 1 entries

5. To search the list of custom styles by javascript code, follow these steps:
- 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 }
```

- 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 				
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

Cloudera Data Visualization 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. Click the Gear icon on the main navigation bar to open the Administration menu.
2. Select Custom Styles.
3. In the Manage Custom Styles interface, create new custom styles or use the existing styles.

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

#### 4. 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	0
2	Pie Chart Legend Labels	Change Labels	admin	admin	20 hours ago	0
1	Dark Blue Table	Alternate rows in dark blue color	admin	admin	20 hours ago	0

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	0
3	Dark Blue Table Bar	Convert an aggregate column to a proportionally sized horizontal bar.	admin	admin	an hour ago	0
2	Pie Chart Legend Labels	Change Labels	admin	admin	an hour ago	0

Showing 1 to 3 of 3 entries

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