

# Chart layout scripts

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In order to ensure the greatest flexibility, **xCharts** includes functionality to create chart layouts that fit your needs regarding the general aspect of the chart, axis labeling, etc.

The **Manage chart layouts** screen lists all available chart layouts, providing the following information:

Property	Function
Name	The name of the layout
Author	The creator of the layout
Scope	Which type of resource was used
Chart data scripts	List of all scripts that are using this resource
Created	The timestamp of layout creation
Updated	The timestamp of the last update
Operations	Available operations for each script: <ul style="list-style-type: none"><li>Edit</li><li>Delete</li><li>Copy</li></ul>


 xCharts - Custom Charts & Reports for JIRA

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























**Chart Layout Scripts**

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Chart Layout Scripts

Administration page for creating Javascript layouts for charts and editing existing ones. [Documentation](#)

Name	Author	Scope	Chart Data Scripts	Created	Updated	Operations
<a href="#">Created vs. resolved with trend</a>	 admin	  	1	06/Aug/18 8:50 AM	13 minutes ago	<a href="#">Edit</a> <a href="#">Copy</a>
<a href="#">Default Layout</a>	 admin	  		07/Jun/18 1:46 PM	07/Jun/18 1:46 PM	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>
<a href="#">Issues in specific status (period)</a>	 admin	  	1	07/Jun/18 2:14 PM	07/Jun/18 3:57 PM	<a href="#">Edit</a> <a href="#">Copy</a>
<a href="#">Open issues with average</a>	 admin	  	1	07/Jun/18 1:46 PM	19/Jun/18 1:30 PM	<a href="#">Edit</a> <a href="#">Copy</a>
<a href="#">Show historic values of a CF in an issue (numeric, text)</a>	 admin	  	1	19/Jun/18 1:30 PM	19/Jun/18 1:57 PM	<a href="#">Edit</a> <a href="#">Copy</a>
<a href="#">Time Frame Chart</a>	 admin	  	1	14/Sep/18 10:51 AM	19/Sep/18 11:17 AM	<a href="#">Edit</a> <a href="#">Copy</a>

In order to get to the **Edit layout** screen, click on the **Create a new layout** button or **Edit** an existing layout.

## Editing a chart layout script

**SINCE VERSION 1.5.0**, it is possible to navigate between the single sections via tabs. Furthermore, it is possible to load scripts (\*.js and \*.css files) from the **JIRA\_HOME** directory.

In order to select your scripts in the drop-down, those files have to be placed within the folder **xcharts** in your **JIRA\_HOME** **JIRA\_HOME** **/xcharts/**

You will need to manually create this folder once in your instance, granting permissions to the user running your Jira application.



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## Edit layout - Created vs. resolved with trend

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General **Layout** Stylesheet Resources

Save & Close

Refresh

Cancel

### Layout

xchart.select.js.file.from.filesystem

OR

```
1 function formatWeek(d){
2   if (d instanceof Date)
3   {
4     // Copy date so don't modify original
5     d = new Date(Date.UTC(d.getFullYear(), d.getMonth(), d.getDate()));
6     // Set to nearest Thursday: current date + 4 - current day number
7     // Make Sunday's day number 7
8     d.setUTCDate(d.getUTCDate() + 4 - (d.getUTCDay()||7));
9     // Get first day of year
10    var yearStart = new Date(Date.UTC(d.getUTCFullYear(),0,1));
11    // Calculate full weeks to nearest Thursday
12    var weekNo = Math.ceil(( (d - yearStart) / 86400000) + 1)/7);
13    // Return array of year and week number
14    return [d.getUTCFullYear(), weekNo];
15  }
16  return '';
17 }
18
```

## General

In the **General** section, you can edit the **Name** and the **Description** of your template.

## Resources

Resources are Javascript and CSS files that can be used in layouts. The most common scenario for such a resource would be some corporate CSS that should be included in multiple charts or an external Javascript library.

Creating resources is pretty straightforward, by navigating to the **Resources** page and then clicking the **Create resource** button.

After creating a resource, it is possible to choose this resource in the Javascript layout, by checking the corresponding resource checkbox.

## Layout

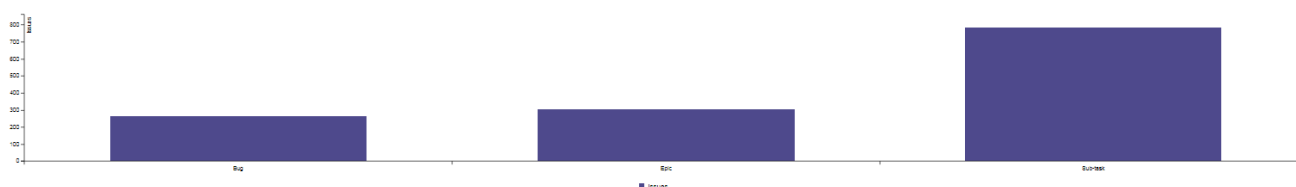
The **Layout** section is where your actual layout code goes. For further styling options see the [C3.js Reference](#).

### General structure

```
c3.generate({
  data: chartData,
  /* Your template script goes here */
})
```

## Highlight ChartData

**SINCE VERSION 1.5.0**, it is possible to display the chart data in Json format under the scripted chart.



```
{
  "colors": {
    "Issues": "#444444"
  },
  "id": {
    "Issues": "Issues-a"
  },
  "names": {
    "Issues": "Issues"
  },
  "empty": {
    "label": {
      "text": "No Matches"
    }
  },
  "custom": {},
  "columns": [
    {
      "Issues":
        250,
        300,
        750
    },
    {
      "Issues-a",
      "Bug",
      "Epic",
      "Sub-task"
    }
  ],
  "groups": [
    {
      "Issues"
    }
  ],
  "hide": [],
  "type": "bar",
  "format": null,
  "order": null,
  "labels": null,
  "x": null,
  "axis": {},
  "types": {
    "Issues": "bar"
  },
  "type": "Issue Type",
  "ytype": "Issues"
}
```

By typing the following:

```
highlightChartDataJson.init(chartData);
```

in the [JavaScript layout script](#), the chart data will be displayed.

This method is only for developing purposes. This code snippet has to be removed from the layout script when using the chart. Otherwise, the chart data will always be displayed - also in xCharts Gadgets.

```

{
  "colors": {
    "Issues": "#4e498c"
  },
  "xs": {
    "Issues": "Issues-x"
  },
  "names": {
    "Issues": "Issues"
  },
  "empty": {
    "label": {
      "text": "No Matches"
    }
  },
  "custom": {},
  "columns": [
    [
      "Issues",
      265,
      303,
      782
    ],
    [
      "Issues-x",
      "Bug",
      "Epic",
      "Sub-task"
    ]
  ],
  "groups": [
    [
      "Issues"
    ]
  ],
  "hide": [],
  "type": "bar",
  "xFormat": null,
  "order": null,
  "labels": null,
  "x": null,
  "axes": {},
  "types": {
    "Issues": "bar"
  },
  "xtype": "Issue Type",
  "ytype": "Issues"
}

```

This method will simplify the usage and the workflow within charts.

## Stylesheet

CSS file that will be used in the chart. Use the **Resources** functionality if you want a common CSS file for multiple charts.

Click **Save** in order to save or update your script. Click **Cancel** to get back to the [Chart Layout Scripts](#) screen.

If you still have questions, feel free to refer to our [support](#) team.