 [Chart.js](http://docs.google.com/docs/3.9.1/)

[Home](http://docs.google.com/docs/3.9.1/)

[API](http://docs.google.com/docs/3.9.1/api/)

[Samples](http://docs.google.com/docs/3.9.1/samples/)

Ecosystem Ecosystem

* [Awesome (opens new window)](https://github.com/chartjs/awesome)
* [Slack (opens new window)](https://chartjs-slack.herokuapp.com/)
* [Stack Overflow (opens new window)](https://stackoverflow.com/questions/tagged/chart.js)

[GitHub (opens new window)](https://github.com/chartjs/Chart.js)

[Home](http://docs.google.com/docs/3.9.1/)

[API](http://docs.google.com/docs/3.9.1/api/)

[Samples](http://docs.google.com/docs/3.9.1/samples/)

Ecosystem Ecosystem

* [Awesome (opens new window)](https://github.com/chartjs/awesome)
* [Slack (opens new window)](https://chartjs-slack.herokuapp.com/)
* [Stack Overflow (opens new window)](https://stackoverflow.com/questions/tagged/chart.js)

[GitHub (opens new window)](https://github.com/chartjs/Chart.js)

* [Chart.js](http://docs.google.com/docs/3.9.1/)
* Getting Started
* General
* Configuration
  + [Configuration](http://docs.google.com/docs/3.9.1/configuration/)
  + [Animations](http://docs.google.com/docs/3.9.1/configuration/animations.html)
  + [Canvas background](http://docs.google.com/docs/3.9.1/configuration/canvas-background.html)
  + [Data Decimation](http://docs.google.com/docs/3.9.1/configuration/decimation.html)
  + [Device Pixel Ratio](http://docs.google.com/docs/3.9.1/configuration/device-pixel-ratio.html)
  + [Elements](http://docs.google.com/docs/3.9.1/configuration/elements.html)
  + [Interactions](http://docs.google.com/docs/3.9.1/configuration/interactions.html)
  + [Layout](http://docs.google.com/docs/3.9.1/configuration/layout.html)
  + [Legend](http://docs.google.com/docs/3.9.1/configuration/legend.html)
  + [Locale](http://docs.google.com/docs/3.9.1/configuration/locale.html)
  + [Responsive Charts](http://docs.google.com/docs/3.9.1/configuration/responsive.html)
  + [Subtitle](http://docs.google.com/docs/3.9.1/configuration/subtitle.html)
  + [Title](http://docs.google.com/docs/3.9.1/configuration/title.html)
  + [Tooltip](http://docs.google.com/docs/3.9.1/configuration/tooltip.html)
* Chart Types
* Axes
* Developers

[**#**](#gjdgxs) Legend

The chart legend displays data about the datasets that are appearing on the chart.

## [**#**](#30j0zll) Configuration options

Namespace: options.plugins.legend, the global options for the chart legend is defined in Chart.defaults.plugins.legend.

WARNING

The doughnut, pie, and polar area charts override the legend defaults. To change the overrides for those chart types, the options are defined in Chart.overrides[type].plugins.legend.

| Name | Type | Default | Description |
| --- | --- | --- | --- |
| display | boolean | true | Is the legend shown? |
| position | string | 'top' | Position of the legend. [more...](#1fob9te) |
| align | string | 'center' | Alignment of the legend. [more...](#3znysh7) |
| maxHeight | number |  | Maximum height of the legend, in pixels |
| maxWidth | number |  | Maximum width of the legend, in pixels |
| fullSize | boolean | true | Marks that this box should take the full width/height of the canvas (moving other boxes). This is unlikely to need to be changed in day-to-day use. |
| onClick | function |  | A callback that is called when a click event is registered on a label item. Arguments: [event, legendItem, legend]. |
| onHover | function |  | A callback that is called when a 'mousemove' event is registered on top of a label item. Arguments: [event, legendItem, legend]. |
| onLeave | function |  | A callback that is called when a 'mousemove' event is registered outside of a previously hovered label item. Arguments: [event, legendItem, legend]. |
| reverse | boolean | false | Legend will show datasets in reverse order. |
| labels | object |  | See the [Legend Label Configuration](#2et92p0) section below. |
| rtl | boolean |  | true for rendering the legends from right to left. |
| textDirection | string | canvas' default | This will force the text direction 'rtl' or 'ltr' on the canvas for rendering the legend, regardless of the css specified on the canvas |
| title | object |  | See the [Legend Title Configuration](#tyjcwt) section below. |

## [**#**](#1fob9te) Position

Position of the legend. Options are:

* 'top'
* 'left'
* 'bottom'
* 'right'
* 'chartArea'

When using the 'chartArea' option the legend position is at the moment not configurable, it will always be on the left side of the chart in the middle.

## [**#**](#3znysh7) Align

Alignment of the legend. Options are:

* 'start'
* 'center'
* 'end'

Defaults to 'center' for unrecognized values.

## [**#**](#2et92p0) Legend Label Configuration

Namespace: options.plugins.legend.labels

| Name | Type | Default | Description |
| --- | --- | --- | --- |
| boxWidth | number | 40 | Width of coloured box. |
| boxHeight | number | font.size | Height of the coloured box. |
| color | [Color](http://docs.google.com/docs/3.9.1/general/colors.html) | Chart.defaults.color | Color of label and the strikethrough. |
| font | Font | Chart.defaults.font | See [Fonts](http://docs.google.com/docs/3.9.1/general/fonts.html) |
| padding | number | 10 | Padding between rows of colored boxes. |
| generateLabels | function |  | Generates legend items for each thing in the legend. Default implementation returns the text + styling for the color box. See [Legend Item](#3dy6vkm) for details. |
| filter | function | null | Filters legend items out of the legend. Receives 2 parameters, a [Legend Item](#3dy6vkm) and the chart data. |
| sort | function | null | Sorts legend items. Type is : sort(a: LegendItem, b: LegendItem, data: ChartData): number;. Receives 3 parameters, two [Legend Items](#3dy6vkm) and the chart data. The return value of the function is a number that indicates the order of the two legend item parameters. The ordering matches the [return value (opens new window)](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/sort#description) of Array.prototype.sort() |
| [pointStyle](http://docs.google.com/docs/3.9.1/configuration/elements.html#point-styles) | [pointStyle](http://docs.google.com/docs/3.9.1/configuration/elements.html#types) | 'circle' | If specified, this style of point is used for the legend. Only used if usePointStyle is true. |
| textAlign | string | 'center' | Horizontal alignment of the label text. Options are: 'left', 'right' or 'center'. |
| usePointStyle | boolean | false | Label style will match corresponding point style (size is based on pointStyleWidth or the minimum value between boxWidth and font.size). |
| pointStyleWidth | number | null | If usePointStyle is true, the width of the point style used for the legend (only for circle, rect and line point stlye). |

## [**#**](#tyjcwt) Legend Title Configuration

Namespace: options.plugins.legend.title

| Name | Type | Default | Description |
| --- | --- | --- | --- |
| color | [Color](http://docs.google.com/docs/3.9.1/general/colors.html) | Chart.defaults.color | Color of text. |
| display | boolean | false | Is the legend title displayed. |
| font | Font | Chart.defaults.font | See [Fonts](http://docs.google.com/docs/3.9.1/general/fonts.html) |
| padding | [Padding](http://docs.google.com/docs/3.9.1/general/padding.html) | 0 | Padding around the title. |
| text | string |  | The string title. |

## [**#**](#3dy6vkm) Legend Item Interface

Items passed to the legend onClick function are the ones returned from labels.generateLabels. These items must implement the following interface.

{  
 // Label that will be displayed  
 text: string,  
 // Border radius of the legend item.  
 // Introduced in 3.1.0  
 borderRadius?: number | BorderRadius,  
 // Index of the associated dataset  
 datasetIndex: number,  
 // Fill style of the legend box  
 fillStyle: Color,  
 // Text color  
 fontColor: Color,  
 // If true, this item represents a hidden dataset. Label will be rendered with a strike-through effect  
 hidden: boolean,  
 // For box border. See https://developer.mozilla.org/en/docs/Web/API/CanvasRenderingContext2D/lineCap  
 lineCap: string,  
 // For box border. See https://developer.mozilla.org/en-US/docs/Web/API/CanvasRenderingContext2D/setLineDash  
 lineDash: number[],  
 // For box border. See https://developer.mozilla.org/en-US/docs/Web/API/CanvasRenderingContext2D/lineDashOffset  
 lineDashOffset: number,  
 // For box border. See https://developer.mozilla.org/en-US/docs/Web/API/CanvasRenderingContext2D/lineJoin  
 lineJoin: string,  
 // Width of box border  
 lineWidth: number,  
 // Stroke style of the legend box  
 strokeStyle: Color,  
 // Point style of the legend box (only used if usePointStyle is true)  
 pointStyle: string | Image | HTMLCanvasElement,  
 // Rotation of the point in degrees (only used if usePointStyle is true)  
 rotation: number  
}

## [**#**](#1t3h5sf) Example

The following example will create a chart with the legend enabled and turn all of the text red in color.

const chart = new Chart(ctx, {  
 type: 'bar',  
 data: data,  
 options: {  
 plugins: {  
 legend: {  
 display: true,  
 labels: {  
 color: 'rgb(255, 99, 132)'  
 }  
 }  
 }  
 }  
});

## [**#**](#4d34og8) Custom On Click Actions

It can be common to want to trigger different behaviour when clicking an item in the legend. This can be easily achieved using a callback in the config object.

The default legend click handler is:

function(e, legendItem, legend) {  
 const index = legendItem.datasetIndex;  
 const ci = legend.chart;  
 if (ci.isDatasetVisible(index)) {  
 ci.hide(index);  
 legendItem.hidden = true;  
 } else {  
 ci.show(index);  
 legendItem.hidden = false;  
 }  
}

Lets say we wanted instead to link the display of the first two datasets. We could change the click handler accordingly.

const defaultLegendClickHandler = Chart.defaults.plugins.legend.onClick;  
const pieDoughnutLegendClickHandler = Chart.controllers.doughnut.overrides.plugins.legend.onClick;  
const newLegendClickHandler = function (e, legendItem, legend) {  
 const index = legendItem.datasetIndex;  
 const type = legend.chart.config.type;  
 if (index > 1) {  
 // Do the original logic  
 if (type === 'pie' || type === 'doughnut') {  
 pieDoughnutLegendClickHandler(e, legendItem, legend)  
 } else {  
 defaultLegendClickHandler(e, legendItem, legend);  
 }  
 } else {  
 let ci = legend.chart;  
 [  
 ci.getDatasetMeta(0),  
 ci.getDatasetMeta(1)  
 ].forEach(function(meta) {  
 meta.hidden = meta.hidden === null ? !ci.data.datasets[index].hidden : null;  
 });  
 ci.update();  
 }  
};  
const chart = new Chart(ctx, {  
 type: 'line',  
 data: data,  
 options: {  
 plugins: {  
 legend: {  
 onClick: newLegendClickHandler  
 }  
 }  
 }  
});

Now when you click the legend in this chart, the visibility of the first two datasets will be linked together.

Last Updated: 8/3/2022, 12:46:38 PM

←  [Layout](http://docs.google.com/docs/3.9.1/configuration/layout.html)   [Locale](http://docs.google.com/docs/3.9.1/configuration/locale.html)  →