 [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)

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* [Chart.js](http://docs.google.com/docs/3.9.1/)
* Getting Started
* General
* Configuration
* Chart Types
* Axes
  + [Axes](http://docs.google.com/docs/3.9.1/axes/)
  + Cartesian
  + Radial
  + [Labeling Axes](http://docs.google.com/docs/3.9.1/axes/labelling.html)
  + [Styling](http://docs.google.com/docs/3.9.1/axes/styling.html)
* Developers

[**#**](#gjdgxs) Labeling Axes

When creating a chart, you want to tell the viewer what data they are viewing. To do this, you need to label the axis.

## [**#**](#30j0zll) Scale Title Configuration

Namespace: options.scales[scaleId].title, it defines options for the scale title. Note that this only applies to cartesian axes.

| Name | Type | Default | Description |
| --- | --- | --- | --- |
| display | boolean | false | If true, display the axis title. |
| align | string | 'center' | Alignment of the axis title. Possible options are 'start', 'center' and 'end' |
| text | string|string[] | '' | The text for the title. (i.e. "# of People" or "Response Choices"). |
| color | [Color](http://docs.google.com/docs/3.9.1/general/colors.html) | Chart.defaults.color | Color of label. |
| 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) | 4 | Padding to apply around scale labels. Only top, bottom and y are implemented. |

## [**#**](#1fob9te) Creating Custom Tick Formats

It is also common to want to change the tick marks to include information about the data type. For example, adding a dollar sign ('$'). To do this, you need to override the ticks.callback method in the axis configuration.

The method receives 3 arguments:

* value - the tick value in the **internal data format** of the associated scale.
* index - the tick index in the ticks array.
* ticks - the array containing all of the [tick objects](http://docs.google.com/api/interfaces/Tick).

The call to the method is scoped to the scale. this inside the method is the scale object.

If the callback returns null or undefined the associated grid line will be hidden.

TIP

The [category axis](http://docs.google.com/axes/cartesian/category), which is the default x-axis for line and bar charts, uses the index as internal data format. For accessing the label, use this.getLabelForValue(value). [API: getLabelForValue](http://docs.google.com/docs/3.9.1/api/classes/Scale.html#getlabelforvalue)

In the following example, every label of the Y-axis would be displayed with a dollar sign at the front.

const chart = new Chart(ctx, {  
 type: 'line',  
 data: data,  
 options: {  
 scales: {  
 y: {  
 ticks: {  
 // Include a dollar sign in the ticks  
 callback: function(value, index, ticks) {  
 return '$' + value;  
 }  
 }  
 }  
 }  
 }  
});

Keep in mind that overriding ticks.callback means that you are responsible for all formatting of the label. Depending on your use case, you may want to call the default formatter and then modify its output. In the example above, that would look like:

// call the default formatter, forwarding `this`  
 return '$' + Chart.Ticks.formatters.numeric.apply(this, [value, index, ticks]);

Related samples:

* [Tick configuration sample](http://docs.google.com/samples/scale-options/ticks)

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

←  [Linear Radial Axis](http://docs.google.com/docs/3.9.1/axes/radial/linear.html)   [Styling](http://docs.google.com/docs/3.9.1/axes/styling.html)  →