 [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
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[**#**](#gjdgxs) Styling

There are a number of options to allow styling an axis. There are settings to control [grid lines](#30j0zll) and [ticks](#1fob9te).

## [**#**](#30j0zll) Grid Line Configuration

Namespace: options.scales[scaleId].grid, it defines options for the grid lines that run perpendicular to the axis.

| Name | Type | Scriptable | Indexable | Default | Description |
| --- | --- | --- | --- | --- | --- |
| borderColor | [Color](http://docs.google.com/docs/3.9.1/general/colors.html) |  |  | Chart.defaults.borderColor | The color of the border line. |
| borderWidth | number |  |  | 1 | The width of the border line. |
| borderDash | number[] | Yes |  | [] | Length and spacing of dashes on grid lines. See [MDN (opens new window)](https://developer.mozilla.org/en-US/docs/Web/API/CanvasRenderingContext2D/setLineDash). |
| borderDashOffset | number | Yes |  | 0.0 | Offset for line dashes. See [MDN (opens new window)](https://developer.mozilla.org/en-US/docs/Web/API/CanvasRenderingContext2D/lineDashOffset). |
| circular | boolean |  |  | false | If true, gridlines are circular (on radar and polar area charts only). |
| color | [Color](http://docs.google.com/docs/3.9.1/general/colors.html) | Yes | Yes | Chart.defaults.borderColor | The color of the grid lines. If specified as an array, the first color applies to the first grid line, the second to the second grid line, and so on. |
| display | boolean |  |  | true | If false, do not display grid lines for this axis. |
| drawBorder | boolean |  |  | true | If true, draw a border at the edge between the axis and the chart area. |
| drawOnChartArea | boolean |  |  | true | If true, draw lines on the chart area inside the axis lines. This is useful when there are multiple axes and you need to control which grid lines are drawn. |
| drawTicks | boolean |  |  | true | If true, draw lines beside the ticks in the axis area beside the chart. |
| lineWidth | number | Yes | Yes | 1 | Stroke width of grid lines. |
| offset | boolean |  |  | false | If true, grid lines will be shifted to be between labels. This is set to true for a bar chart by default. |
| tickBorderDash | number[] |  |  |  | Length and spacing of the tick mark line. If not set, defaults to the grid line borderDash value. |
| tickBorderDashOffset | number | Yes | Yes |  | Offset for the line dash of the tick mark. If unset, defaults to the grid line borderDashOffset value |
| tickColor | [Color](http://docs.google.com/docs/3.9.1/general/colors.html) | Yes | Yes |  | Color of the tick line. If unset, defaults to the grid line color. |
| tickLength | number |  |  | 8 | Length in pixels that the grid lines will draw into the axis area. |
| tickWidth | number | Yes | Yes |  | Width of the tick mark in pixels. If unset, defaults to the grid line width. |
| z | number |  |  | 0 | z-index of gridline layer. Values <= 0 are drawn under datasets, > 0 on top. |

The scriptable context is described in [Options](http://docs.google.com/docs/3.9.1/general/options.html#tick) section.

## [**#**](#1fob9te) Tick Configuration

### [**#**](#3znysh7) Common tick options to all axes

Namespace: options.scales[scaleId].ticks

| Name | Type | Scriptable | Default | Description |
| --- | --- | --- | --- | --- |
| backdropColor | [Color](http://docs.google.com/docs/3.9.1/general/colors.html) | Yes | 'rgba(255, 255, 255, 0.75)' | Color of label backdrops. |
| backdropPadding | [Padding](http://docs.google.com/docs/3.9.1/general/padding.html) |  | 2 | Padding of label backdrop. |
| callback | function |  |  | Returns the string representation of the tick value as it should be displayed on the chart. See [callback](http://docs.google.com/docs/3.9.1/axes/labelling.html#creating-custom-tick-formats). |
| display | boolean |  | true | If true, show tick labels. |
| color | [Color](http://docs.google.com/docs/3.9.1/general/colors.html) | Yes | Chart.defaults.color | Color of ticks. |
| font | Font | Yes | Chart.defaults.font | See [Fonts](http://docs.google.com/docs/3.9.1/general/fonts.html) |
| major | object |  | {} | [Major ticks configuration](http://docs.google.com/docs/3.9.1/axes/styling.html#major-tick-configuration). |
| padding | number |  | 3 | Sets the offset of the tick labels from the axis |
| showLabelBackdrop | boolean | Yes | true for radial scale, false otherwise | If true, draw a background behind the tick labels. |
| textStrokeColor | [Color](http://docs.google.com/docs/3.9.1/general/colors.html) | Yes | `` | The color of the stroke around the text. |
| textStrokeWidth | number | Yes | 0 | Stroke width around the text. |
| z | number |  | 0 | z-index of tick layer. Useful when ticks are drawn on chart area. Values <= 0 are drawn under datasets, > 0 on top. |

The scriptable context is described in [Options](http://docs.google.com/docs/3.9.1/general/options.html#tick) section.

## [**#**](#2et92p0) Major Tick Configuration

Namespace: options.scales[scaleId].ticks.major, it defines options for the major tick marks that are generated by the axis.

| Name | Type | Default | Description |
| --- | --- | --- | --- |
| enabled | boolean | false | If true, major ticks are generated. A major tick will affect autoskipping and major will be defined on ticks in the scriptable options context. |

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←  [Labeling Axes](http://docs.google.com/docs/3.9.1/axes/labelling.html)   [Developers](http://docs.google.com/docs/3.9.1/developers/)  →