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

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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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* Getting Started
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* Axes
* Developers

[**#**](#gjdgxs) Radar Chart

A radar chart is a way of showing multiple data points and the variation between them.

They are often useful for comparing the points of two or more different data sets.

config setup

const config = { type: 'radar', data: data, options: { elements: { line: { borderWidth: 3 } } }, };

const config = {  
 type: 'radar',  
 data: data,  
 options: {  
 elements: {  
 line: {  
 borderWidth: 3  
 }  
 }  
 },  
};

const data = { labels: [ 'Eating', 'Drinking', 'Sleeping', 'Designing', 'Coding', 'Cycling', 'Running' ], datasets: [{ label: 'My First Dataset', data: [65, 59, 90, 81, 56, 55, 40], fill: true, backgroundColor: 'rgba(255, 99, 132, 0.2)', borderColor: 'rgb(255, 99, 132)', pointBackgroundColor: 'rgb(255, 99, 132)', pointBorderColor: '#fff', pointHoverBackgroundColor: '#fff', pointHoverBorderColor: 'rgb(255, 99, 132)' }, { label: 'My Second Dataset', data: [28, 48, 40, 19, 96, 27, 100], fill: true, backgroundColor: 'rgba(54, 162, 235, 0.2)', borderColor: 'rgb(54, 162, 235)', pointBackgroundColor: 'rgb(54, 162, 235)', pointBorderColor: '#fff', pointHoverBackgroundColor: '#fff', pointHoverBorderColor: 'rgb(54, 162, 235)' }] };

const data = {  
 labels: [  
 'Eating',  
 'Drinking',  
 'Sleeping',  
 'Designing',  
 'Coding',  
 'Cycling',  
 'Running'  
 ],  
 datasets: [{  
 label: 'My First Dataset',  
 data: [65, 59, 90, 81, 56, 55, 40],  
 fill: true,  
 backgroundColor: 'rgba(255, 99, 132, 0.2)',  
 borderColor: 'rgb(255, 99, 132)',  
 pointBackgroundColor: 'rgb(255, 99, 132)',  
 pointBorderColor: '#fff',  
 pointHoverBackgroundColor: '#fff',  
 pointHoverBorderColor: 'rgb(255, 99, 132)'  
 }, {  
 label: 'My Second Dataset',  
 data: [28, 48, 40, 19, 96, 27, 100],  
 fill: true,  
 backgroundColor: 'rgba(54, 162, 235, 0.2)',  
 borderColor: 'rgb(54, 162, 235)',  
 pointBackgroundColor: 'rgb(54, 162, 235)',  
 pointBorderColor: '#fff',  
 pointHoverBackgroundColor: '#fff',  
 pointHoverBorderColor: 'rgb(54, 162, 235)'  
 }]  
};

## [**#**](#30j0zll) Dataset Properties

Namespaces:

* data.datasets[index] - options for this dataset only
* options.datasets.line - options for all line datasets
* options.elements.line - options for all [line elements](http://docs.google.com/docs/3.9.1/configuration/elements.html#line-configuration)
* options.elements.point - options for all [point elements](http://docs.google.com/docs/3.9.1/configuration/elements.html#point-configuration)
* options - options for the whole chart

The radar chart allows a number of properties to be specified for each dataset. These are used to set display properties for a specific dataset. For example, the colour of a line is generally set this way.

| Name | Type | [Scriptable](http://docs.google.com/docs/3.9.1/general/options.html#scriptable-options) | [Indexable](http://docs.google.com/docs/3.9.1/general/options.html#indexable-options) | Default |
| --- | --- | --- | --- | --- |
| [backgroundColor](#1fob9te) | [Color](http://docs.google.com/docs/3.9.1/general/colors.html) | Yes | - | 'rgba(0, 0, 0, 0.1)' |
| [borderCapStyle](#1fob9te) | string | Yes | - | 'butt' |
| [borderColor](#1fob9te) | [Color](http://docs.google.com/docs/3.9.1/general/colors.html) | Yes | - | 'rgba(0, 0, 0, 0.1)' |
| [borderDash](#1fob9te) | number[] | Yes | - | [] |
| [borderDashOffset](#1fob9te) | number | Yes | - | 0.0 |
| [borderJoinStyle](#1fob9te) | 'round'|'bevel'|'miter' | Yes | - | 'miter' |
| [borderWidth](#1fob9te) | number | Yes | - | 3 |
| [hoverBackgroundColor](#1fob9te) | [Color](http://docs.google.com/docs/3.9.1/general/colors.html) | Yes | - | undefined |
| [hoverBorderCapStyle](#1fob9te) | string | Yes | - | undefined |
| [hoverBorderColor](#1fob9te) | [Color](http://docs.google.com/docs/3.9.1/general/colors.html) | Yes | - | undefined |
| [hoverBorderDash](#1fob9te) | number[] | Yes | - | undefined |
| [hoverBorderDashOffset](#1fob9te) | number | Yes | - | undefined |
| [hoverBorderJoinStyle](#1fob9te) | 'round'|'bevel'|'miter' | Yes | - | undefined |
| [hoverBorderWidth](#1fob9te) | number | Yes | - | undefined |
| [clip](#3znysh7) | number|object|false | - | - | undefined |
| [data](#2et92p0) | number[] | - | - | **required** |
| [fill](#1fob9te) | boolean|string | Yes | - | false |
| [label](#3znysh7) | string | - | - | '' |
| [order](#3znysh7) | number | - | - | 0 |
| [tension](#1fob9te) | number | - | - | 0 |
| [pointBackgroundColor](#tyjcwt) | Color | Yes | Yes | 'rgba(0, 0, 0, 0.1)' |
| [pointBorderColor](#tyjcwt) | Color | Yes | Yes | 'rgba(0, 0, 0, 0.1)' |
| [pointBorderWidth](#tyjcwt) | number | Yes | Yes | 1 |
| [pointHitRadius](#tyjcwt) | number | Yes | Yes | 1 |
| [pointHoverBackgroundColor](#3dy6vkm) | Color | Yes | Yes | undefined |
| [pointHoverBorderColor](#3dy6vkm) | Color | Yes | Yes | undefined |
| [pointHoverBorderWidth](#3dy6vkm) | number | Yes | Yes | 1 |
| [pointHoverRadius](#3dy6vkm) | number | Yes | Yes | 4 |
| [pointRadius](#tyjcwt) | number | Yes | Yes | 3 |
| [pointRotation](#tyjcwt) | number | Yes | Yes | 0 |
| [pointStyle](#tyjcwt) | [pointStyle](http://docs.google.com/docs/3.9.1/configuration/elements.html#types) | Yes | Yes | 'circle' |
| [spanGaps](#1fob9te) | boolean | - | - | undefined |

All these values, if undefined, fallback to the scopes described in [option resolution](http://docs.google.com/general/options)

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

| Name | Description |
| --- | --- |
| clip | How to clip relative to chartArea. Positive value allows overflow, negative value clips that many pixels inside chartArea. 0 = clip at chartArea. Clipping can also be configured per side: clip: {left: 5, top: false, right: -2, bottom: 0} |
| label | The label for the dataset which appears in the legend and tooltips. |
| order | The drawing order of dataset. Also affects order for tooltip and legend. [more](http://docs.google.com/docs/3.9.1/charts/mixed.html#drawing-order) |

### [**#**](#tyjcwt) Point Styling

The style of each point can be controlled with the following properties:

| Name | Description |
| --- | --- |
| pointBackgroundColor | The fill color for points. |
| pointBorderColor | The border color for points. |
| pointBorderWidth | The width of the point border in pixels. |
| pointHitRadius | The pixel size of the non-displayed point that reacts to mouse events. |
| pointRadius | The radius of the point shape. If set to 0, the point is not rendered. |
| pointRotation | The rotation of the point in degrees. |
| pointStyle | Style of the point. [more...](http://docs.google.com/configuration/elements#point-styles) |

All these values, if undefined, fallback first to the dataset options then to the associated [elements.point.\*](http://docs.google.com/docs/3.9.1/configuration/elements.html#point-configuration) options.

### [**#**](#1fob9te) Line Styling

The style of the line can be controlled with the following properties:

| Name | Description |
| --- | --- |
| backgroundColor | The line fill color. |
| borderCapStyle | Cap style of the line. See [MDN (opens new window)](https://developer.mozilla.org/en-US/docs/Web/API/CanvasRenderingContext2D/lineCap). |
| borderColor | The line color. |
| borderDash | Length and spacing of dashes. See [MDN (opens new window)](https://developer.mozilla.org/en-US/docs/Web/API/CanvasRenderingContext2D/setLineDash). |
| borderDashOffset | Offset for line dashes. See [MDN (opens new window)](https://developer.mozilla.org/en-US/docs/Web/API/CanvasRenderingContext2D/lineDashOffset). |
| borderJoinStyle | Line joint style. See [MDN (opens new window)](https://developer.mozilla.org/en-US/docs/Web/API/CanvasRenderingContext2D/lineJoin). |
| borderWidth | The line width (in pixels). |
| fill | How to fill the area under the line. See [area charts](http://docs.google.com/docs/3.9.1/charts/area.html). |
| tension | Bezier curve tension of the line. Set to 0 to draw straight lines. |
| spanGaps | If true, lines will be drawn between points with no or null data. If false, points with null data will create a break in the line. |

If the value is undefined, the values fallback to the associated [elements.line.\*](http://docs.google.com/docs/3.9.1/configuration/elements.html#line-configuration) options.

### [**#**](#3dy6vkm) Interactions

The interaction with each point can be controlled with the following properties:

| Name | Description |
| --- | --- |
| pointHoverBackgroundColor | Point background color when hovered. |
| pointHoverBorderColor | Point border color when hovered. |
| pointHoverBorderWidth | Border width of point when hovered. |
| pointHoverRadius | The radius of the point when hovered. |

## [**#**](#1t3h5sf) Scale Options

The radar chart supports only a single scale. The options for this scale are defined in the scales.r property, which can be referenced from the [Linear Radial Axis page](http://docs.google.com/axes/radial/linear).

options = {  
 scales: {  
 r: {  
 angleLines: {  
 display: false  
 },  
 suggestedMin: 50,  
 suggestedMax: 100  
 }  
 }  
};

## [**#**](#4d34og8) Default Options

It is common to want to apply a configuration setting to all created radar charts. The global radar chart settings are stored in Chart.overrides.radar. Changing the global options only affects charts created after the change. Existing charts are not changed.

## [**#**](#2et92p0) Data Structure

The data property of a dataset for a radar chart is specified as an array of numbers. Each point in the data array corresponds to the label at the same index.

data: [20, 10]

For a radar chart, to provide context of what each point means, we include an array of strings that show around each point in the chart.

data: {  
 labels: ['Running', 'Swimming', 'Eating', 'Cycling'],  
 datasets: [{  
 data: [20, 10, 4, 2]  
 }]  
}

## [**#**](#2s8eyo1) Internal data format

{x, y}

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

←  [Polar Area Chart](http://docs.google.com/docs/3.9.1/charts/polar.html)   [Scatter Chart](http://docs.google.com/docs/3.9.1/charts/scatter.html)  →