 [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
  + [Accessibility](http://docs.google.com/docs/3.9.1/general/accessibility.html)
  + [Colors](http://docs.google.com/docs/3.9.1/general/colors.html)
  + [Data structures](http://docs.google.com/docs/3.9.1/general/data-structures.html)
  + [Fonts](http://docs.google.com/docs/3.9.1/general/fonts.html)
  + [Options](http://docs.google.com/docs/3.9.1/general/options.html)
  + [Padding](http://docs.google.com/docs/3.9.1/general/padding.html)
  + [Performance](http://docs.google.com/docs/3.9.1/general/performance.html)
* Configuration
* Chart Types
* Axes
* Developers

[**#**](#gjdgxs) Colors

When supplying colors to Chart options, you can use a number of formats. You can specify the color as a string in hexadecimal, RGB, or HSL notations. If a color is needed, but not specified, Chart.js will use the global default color. There are 3 color options, stored at Chart.defaults, to set:

| Name | Type | Default | Description |
| --- | --- | --- | --- |
| backgroundColor | Color | rgba(0, 0, 0, 0.1) | Background color. |
| borderColor | Color | rgba(0, 0, 0, 0.1) | Border color. |
| color | Color | #666 | Font color. |

You can also pass a [CanvasGradient (opens new window)](https://developer.mozilla.org/en-US/docs/Web/API/CanvasGradient) object. You will need to create this before passing to the chart, but using it you can achieve some interesting effects.

## [**#**](#30j0zll) Patterns and Gradients

An alternative option is to pass a [CanvasPattern (opens new window)](https://developer.mozilla.org/en-US/docs/Web/API/CanvasPattern) or [CanvasGradient (opens new window)](https://developer.mozilla.org/en/docs/Web/API/CanvasGradient) object instead of a string colour.

For example, if you wanted to fill a dataset with a pattern from an image you could do the following.

const img = new Image();  
img.src = 'https://example.com/my\_image.png';  
img.onload = function() {  
 const ctx = document.getElementById('canvas').getContext('2d');  
 const fillPattern = ctx.createPattern(img, 'repeat');  
 const chart = new Chart(ctx, {  
 data: {  
 labels: ['Item 1', 'Item 2', 'Item 3'],  
 datasets: [{  
 data: [10, 20, 30],  
 backgroundColor: fillPattern  
 }]  
 }  
 });  
};

Using pattern fills for data graphics can help viewers with vision deficiencies (e.g. color-blindness or partial sight) to [more easily understand your data (opens new window)](http://betweentwobrackets.com/data-graphics-and-colour-vision/).

Using the [Patternomaly (opens new window)](https://github.com/ashiguruma/patternomaly) library you can generate patterns to fill datasets.

const chartData = {  
 datasets: [{  
 data: [45, 25, 20, 10],  
 backgroundColor: [  
 pattern.draw('square', '#ff6384'),  
 pattern.draw('circle', '#36a2eb'),  
 pattern.draw('diamond', '#cc65fe'),  
 pattern.draw('triangle', '#ffce56')  
 ]  
 }],  
 labels: ['Red', 'Blue', 'Purple', 'Yellow']  
};

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

←  [Accessibility](http://docs.google.com/docs/3.9.1/general/accessibility.html)   [Data structures](http://docs.google.com/docs/3.9.1/general/data-structures.html)  →