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

* [Information](http://docs.google.com/docs/3.9.1/samples/information.html)
* Bar Charts
* Line Charts
* Other charts
* Area charts
* Scales
* Scale Options
* Legend
* Title
* Subtitle
* Tooltip
* Scriptable Options
* Animations
* Advanced
  + [Data Decimation](http://docs.google.com/docs/3.9.1/samples/advanced/data-decimation.html)
  + [Derived Axis Type](http://docs.google.com/docs/3.9.1/samples/advanced/derived-axis-type.html)
  + [Derived Chart Type](http://docs.google.com/docs/3.9.1/samples/advanced/derived-chart-type.html)
  + [Linear Gradient](http://docs.google.com/docs/3.9.1/samples/advanced/linear-gradient.html)
  + [Programmatic Event Triggers](http://docs.google.com/docs/3.9.1/samples/advanced/programmatic-events.html)
  + [Animation Progress Bar](http://docs.google.com/docs/3.9.1/samples/advanced/progress-bar.html)
  + [Radial Gradient](http://docs.google.com/docs/3.9.1/samples/advanced/radial-gradient.html)
* Plugins
* [Utils](http://docs.google.com/docs/3.9.1/samples/utils.html)

[**#**](#gjdgxs) Derived Chart Type

config setup

const config = { type: 'derivedBubble', data: data, options: { responsive: true, plugins: { title: { display: true, text: 'Derived Chart Type' }, } } };

const config = {  
 type: 'derivedBubble',  
 data: data,  
 options: {  
 responsive: true,  
 plugins: {  
 title: {  
 display: true,  
 text: 'Derived Chart Type'  
 },  
 }  
 }  
};

const DATA\_COUNT = 7; const NUMBER\_CFG = {count: DATA\_COUNT, min: -100, max: 100, rmin: 1, rmax: 20}; const data = { datasets: [ { label: 'My First dataset', backgroundColor: Utils.transparentize(Utils.CHART\_COLORS.blue, 0.5), borderColor: Utils.CHART\_COLORS.blue, borderWidth: 1, boxStrokeStyle: 'red', data: Utils.bubbles(NUMBER\_CFG) } ], };

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const data = {  
 datasets: [  
 {  
 label: 'My First dataset',  
 backgroundColor: Utils.transparentize(Utils.CHART\_COLORS.blue, 0.5),  
 borderColor: Utils.CHART\_COLORS.blue,  
 borderWidth: 1,  
 boxStrokeStyle: 'red',  
 data: Utils.bubbles(NUMBER\_CFG)  
 }  
 ],  
};

## [**#**](#30j0zll) DerivedBubble Implementation

import {Chart, BubbleController} from 'chart.js';  
class Custom extends BubbleController {  
 draw() {  
 // Call bubble controller method to draw all the points  
 super.draw(arguments);  
 // Now we can do some custom drawing for this dataset.  
 // Here we'll draw a box around the first point in each dataset,  
 // using `boxStrokeStyle` dataset option for color  
 var meta = this.getMeta();  
 var pt0 = meta.data[0];  
 const {x, y} = pt0.getProps(['x', 'y']);  
 const {radius} = pt0.options;  
 var ctx = this.chart.ctx;  
 ctx.save();  
 ctx.strokeStyle = this.options.boxStrokeStyle;  
 ctx.lineWidth = 1;  
 ctx.strokeRect(x - radius, y - radius, 2 \* radius, 2 \* radius);  
 ctx.restore();  
 }  
}  
Custom.id = 'derivedBubble';  
Custom.defaults = {  
 // Custom defaults. Bubble defaults are inherited.  
 boxStrokeStyle: 'red'  
};  
// Overrides are only inherited, but not merged if defined  
// Custom.overrides = Chart.overrides.bubble;  
// Stores the controller so that the chart initialization routine can look it up  
Chart.register(Custom);

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

* [Bubble Chart](http://docs.google.com/docs/3.9.1/charts/bubble.html)
* [New Charts](http://docs.google.com/docs/3.9.1/developers/charts.html)

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

←  [Derived Axis Type](http://docs.google.com/docs/3.9.1/samples/advanced/derived-axis-type.html)   [Linear Gradient](http://docs.google.com/docs/3.9.1/samples/advanced/linear-gradient.html)  →