 [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

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* [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)

* API
  + [Exports](http://docs.google.com/docs/3.9.1/api/)
  + Enumerations
  + Classes
  + Interfaces
    - [ActiveDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ActiveDataPoint.html)
    - [ActiveElement](http://docs.google.com/docs/3.9.1/api/interfaces/ActiveElement.html)
    - [AnimationEvent](http://docs.google.com/docs/3.9.1/api/interfaces/AnimationEvent.html)
    - [ArcBorderRadius](http://docs.google.com/docs/3.9.1/api/interfaces/ArcBorderRadius.html)
    - [ArcElement](http://docs.google.com/docs/3.9.1/api/interfaces/ArcElement.html)
    - [ArcHoverOptions](http://docs.google.com/docs/3.9.1/api/interfaces/ArcHoverOptions.html)
    - [ArcOptions](http://docs.google.com/docs/3.9.1/api/interfaces/ArcOptions.html)
    - [ArcProps](http://docs.google.com/docs/3.9.1/api/interfaces/ArcProps.html)
    - [BarControllerChartOptions](http://docs.google.com/docs/3.9.1/api/interfaces/BarControllerChartOptions.html)
    - [BarControllerDatasetOptions](http://docs.google.com/docs/3.9.1/api/interfaces/BarControllerDatasetOptions.html)
    - [BarElement](http://docs.google.com/docs/3.9.1/api/interfaces/BarElement.html)
    - [BarHoverOptions](http://docs.google.com/docs/3.9.1/api/interfaces/BarHoverOptions.html)
    - [BarOptions](http://docs.google.com/docs/3.9.1/api/interfaces/BarOptions.html)
    - [BarProps](http://docs.google.com/docs/3.9.1/api/interfaces/BarProps.html)
    - [BorderRadius](http://docs.google.com/docs/3.9.1/api/interfaces/BorderRadius.html)
    - [BubbleControllerDatasetOptions](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleControllerDatasetOptions.html)
    - [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html)
    - [CartesianScaleOptions](http://docs.google.com/docs/3.9.1/api/interfaces/CartesianScaleOptions.html)
    - [CartesianScaleTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/CartesianScaleTypeRegistry.html)
    - [ChartArea](http://docs.google.com/docs/3.9.1/api/interfaces/ChartArea.html)
    - [ChartComponent](http://docs.google.com/docs/3.9.1/api/interfaces/ChartComponent.html)
    - [ChartConfiguration](http://docs.google.com/docs/3.9.1/api/interfaces/ChartConfiguration.html)
    - [ChartConfigurationCustomTypesPerDataset](http://docs.google.com/docs/3.9.1/api/interfaces/ChartConfigurationCustomTypesPerDataset.html)
    - [ChartData](http://docs.google.com/docs/3.9.1/api/interfaces/ChartData.html)
    - [ChartDataCustomTypesPerDataset](http://docs.google.com/docs/3.9.1/api/interfaces/ChartDataCustomTypesPerDataset.html)
    - [ChartDatasetProperties](http://docs.google.com/docs/3.9.1/api/interfaces/ChartDatasetProperties.html)
    - [ChartDatasetPropertiesCustomTypesPerDataset](http://docs.google.com/docs/3.9.1/api/interfaces/ChartDatasetPropertiesCustomTypesPerDataset.html)
    - [ChartEvent](http://docs.google.com/docs/3.9.1/api/interfaces/ChartEvent.html)
    - [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html)
    - [CommonElementOptions](http://docs.google.com/docs/3.9.1/api/interfaces/CommonElementOptions.html)
    - [CommonHoverOptions](http://docs.google.com/docs/3.9.1/api/interfaces/CommonHoverOptions.html)
    - [ComplexFillTarget](http://docs.google.com/docs/3.9.1/api/interfaces/ComplexFillTarget.html)
    - [ControllerDatasetOptions](http://docs.google.com/docs/3.9.1/api/interfaces/ControllerDatasetOptions.html)
    - [CoreChartOptions](http://docs.google.com/docs/3.9.1/api/interfaces/CoreChartOptions.html)
    - [CoreInteractionOptions](http://docs.google.com/docs/3.9.1/api/interfaces/CoreInteractionOptions.html)
    - [CoreScaleOptions](http://docs.google.com/docs/3.9.1/api/interfaces/CoreScaleOptions.html)
    - [DatasetControllerChartComponent](http://docs.google.com/docs/3.9.1/api/interfaces/DatasetControllerChartComponent.html)
    - [DateAdapter](http://docs.google.com/docs/3.9.1/api/interfaces/DateAdapter.html)
    - [Defaults](http://docs.google.com/docs/3.9.1/api/interfaces/Defaults.html)
    - [DoughnutAnimationOptions](http://docs.google.com/docs/3.9.1/api/interfaces/DoughnutAnimationOptions.html)
    - [DoughnutController](http://docs.google.com/docs/3.9.1/api/interfaces/DoughnutController.html)
    - [DoughnutControllerChartOptions](http://docs.google.com/docs/3.9.1/api/interfaces/DoughnutControllerChartOptions.html)
    - [DoughnutControllerDatasetOptions](http://docs.google.com/docs/3.9.1/api/interfaces/DoughnutControllerDatasetOptions.html)
    - [DoughnutMetaExtensions](http://docs.google.com/docs/3.9.1/api/interfaces/DoughnutMetaExtensions.html)
    - [Element](http://docs.google.com/docs/3.9.1/api/interfaces/Element.html)
    - [ElementOptionsByType](http://docs.google.com/docs/3.9.1/api/interfaces/ElementOptionsByType.html)
    - [ExtendedPlugin](http://docs.google.com/docs/3.9.1/api/interfaces/ExtendedPlugin.html)
    - [FillerControllerDatasetOptions](http://docs.google.com/docs/3.9.1/api/interfaces/FillerControllerDatasetOptions.html)
    - [FillerOptions](http://docs.google.com/docs/3.9.1/api/interfaces/FillerOptions.html)
    - [FontSpec](http://docs.google.com/docs/3.9.1/api/interfaces/FontSpec.html)
    - [GridLineOptions](http://docs.google.com/docs/3.9.1/api/interfaces/GridLineOptions.html)
    - [InteractionItem](http://docs.google.com/docs/3.9.1/api/interfaces/InteractionItem.html)
    - [InteractionModeMap](http://docs.google.com/docs/3.9.1/api/interfaces/InteractionModeMap.html)
    - [InteractionOptions](http://docs.google.com/docs/3.9.1/api/interfaces/InteractionOptions.html)
    - [LayoutItem](http://docs.google.com/docs/3.9.1/api/interfaces/LayoutItem.html)
    - [LegendElement](http://docs.google.com/docs/3.9.1/api/interfaces/LegendElement.html)
    - [LegendItem](http://docs.google.com/docs/3.9.1/api/interfaces/LegendItem.html)
    - [LegendOptions](http://docs.google.com/docs/3.9.1/api/interfaces/LegendOptions.html)
    - [LineControllerChartOptions](http://docs.google.com/docs/3.9.1/api/interfaces/LineControllerChartOptions.html)
    - [LineControllerDatasetOptions](http://docs.google.com/docs/3.9.1/api/interfaces/LineControllerDatasetOptions.html)
    - [LineElement](http://docs.google.com/docs/3.9.1/api/interfaces/LineElement.html)
    - [LineHoverOptions](http://docs.google.com/docs/3.9.1/api/interfaces/LineHoverOptions.html)
    - [LineOptions](http://docs.google.com/docs/3.9.1/api/interfaces/LineOptions.html)
    - [LineProps](http://docs.google.com/docs/3.9.1/api/interfaces/LineProps.html)
    - [ParsingOptions](http://docs.google.com/docs/3.9.1/api/interfaces/ParsingOptions.html)
    - [Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html)
    - [PluginChartOptions](http://docs.google.com/docs/3.9.1/api/interfaces/PluginChartOptions.html)
    - [PluginOptionsByType](http://docs.google.com/docs/3.9.1/api/interfaces/PluginOptionsByType.html)
    - [Point](http://docs.google.com/docs/3.9.1/api/interfaces/Point.html)
    - [PointElement](http://docs.google.com/docs/3.9.1/api/interfaces/PointElement.html)
    - [PointHoverOptions](http://docs.google.com/docs/3.9.1/api/interfaces/PointHoverOptions.html)
    - [PointOptions](http://docs.google.com/docs/3.9.1/api/interfaces/PointOptions.html)
    - [PointPrefixedHoverOptions](http://docs.google.com/docs/3.9.1/api/interfaces/PointPrefixedHoverOptions.html)
    - [PointPrefixedOptions](http://docs.google.com/docs/3.9.1/api/interfaces/PointPrefixedOptions.html)
    - [PointProps](http://docs.google.com/docs/3.9.1/api/interfaces/PointProps.html)
    - [PolarAreaController](http://docs.google.com/docs/3.9.1/api/interfaces/PolarAreaController.html)
    - [PolarAreaControllerChartOptions](http://docs.google.com/docs/3.9.1/api/interfaces/PolarAreaControllerChartOptions.html)
    - [PolarAreaControllerDatasetOptions](http://docs.google.com/docs/3.9.1/api/interfaces/PolarAreaControllerDatasetOptions.html)
    - [RadarControllerDatasetOptions](http://docs.google.com/docs/3.9.1/api/interfaces/RadarControllerDatasetOptions.html)
    - [RadialLinearScale](http://docs.google.com/docs/3.9.1/api/interfaces/RadialLinearScale.html)
    - [RadialScaleTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/RadialScaleTypeRegistry.html)
    - [Registry](http://docs.google.com/docs/3.9.1/api/interfaces/Registry.html)
    - [ScaleTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ScaleTypeRegistry.html)
    - [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html)
    - [ScriptableCartesianScaleContext](http://docs.google.com/docs/3.9.1/api/interfaces/ScriptableCartesianScaleContext.html)
    - [ScriptableChartContext](http://docs.google.com/docs/3.9.1/api/interfaces/ScriptableChartContext.html)
    - [ScriptableContext](http://docs.google.com/docs/3.9.1/api/interfaces/ScriptableContext.html)
    - [ScriptableLineSegmentContext](http://docs.google.com/docs/3.9.1/api/interfaces/ScriptableLineSegmentContext.html)
    - [ScriptableScaleContext](http://docs.google.com/docs/3.9.1/api/interfaces/ScriptableScaleContext.html)
    - [ScriptableScalePointLabelContext](http://docs.google.com/docs/3.9.1/api/interfaces/ScriptableScalePointLabelContext.html)
    - [ScriptableTooltipContext](http://docs.google.com/docs/3.9.1/api/interfaces/ScriptableTooltipContext.html)
    - [Segment](http://docs.google.com/docs/3.9.1/api/interfaces/Segment.html)
    - [Tick](http://docs.google.com/docs/3.9.1/api/interfaces/Tick.html)
    - [TickOptions](http://docs.google.com/docs/3.9.1/api/interfaces/TickOptions.html)
    - [TimeScale](http://docs.google.com/docs/3.9.1/api/interfaces/TimeScale.html)
    - [TitleOptions](http://docs.google.com/docs/3.9.1/api/interfaces/TitleOptions.html)
    - [Tooltip](http://docs.google.com/docs/3.9.1/api/interfaces/Tooltip.html)
    - [TooltipCallbacks](http://docs.google.com/docs/3.9.1/api/interfaces/TooltipCallbacks.html)
    - [TooltipItem](http://docs.google.com/docs/3.9.1/api/interfaces/TooltipItem.html)
    - [TooltipLabelStyle](http://docs.google.com/docs/3.9.1/api/interfaces/TooltipLabelStyle.html)
    - [TooltipModel](http://docs.google.com/docs/3.9.1/api/interfaces/TooltipModel.html)
    - [TooltipOptions](http://docs.google.com/docs/3.9.1/api/interfaces/TooltipOptions.html)
    - [TooltipPosition](http://docs.google.com/docs/3.9.1/api/interfaces/TooltipPosition.html)
    - [TooltipPositionerMap](http://docs.google.com/docs/3.9.1/api/interfaces/TooltipPositionerMap.html)
    - [TypedRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/TypedRegistry.html)
    - [VisualElement](http://docs.google.com/docs/3.9.1/api/interfaces/VisualElement.html)

[**#**](#gjdgxs) Interface: Tooltip

## [**#**](#30j0zll) Hierarchy

* [Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html)  
  ↳ **Tooltip**

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

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

• **id**: string

#### [**#**](#2et92p0) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[id](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#id)

#### [**#**](#tyjcwt) Defined in

[index.esm.d.ts:808 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L808)

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

• Readonly **positioners**: [TooltipPositionerMap](http://docs.google.com/docs/3.9.1/api/interfaces/TooltipPositionerMap.html)

#### [**#**](#1t3h5sf) Defined in

[index.esm.d.ts:2549 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L2549)

## [**#**](#4d34og8) Methods

### [**#**](#2s8eyo1) afterBuildTicks

▸ Optional **afterBuildTicks**(chart, args, options): void

**desc** Called after scale has build its ticks. This hook is called separately for each scale in the chart.

#### [**#**](#17dp8vu) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | Object | The call arguments. |
| args.scale | [Scale](http://docs.google.com/docs/3.9.1/api/classes/Scale.html)<[CoreScaleOptions](http://docs.google.com/docs/3.9.1/api/interfaces/CoreScaleOptions.html)> | The scale. |
| options | AnyObject | The plugin options. |

#### [**#**](#3rdcrjn) Returns

void

#### [**#**](#26in1rg) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[afterBuildTicks](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#afterbuildticks)

#### [**#**](#lnxbz9) Defined in

[index.esm.d.ts:967 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L967)

### [**#**](#35nkun2) afterDataLimits

▸ Optional **afterDataLimits**(chart, args, options): void

**desc** Called after scale data limits are calculated. This hook is called separately for each scale in the chart.

#### [**#**](#1ksv4uv) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | Object | The call arguments. |
| args.scale | [Scale](http://docs.google.com/docs/3.9.1/api/classes/Scale.html)<[CoreScaleOptions](http://docs.google.com/docs/3.9.1/api/interfaces/CoreScaleOptions.html)> | The scale. |
| options | AnyObject | The plugin options. |

#### [**#**](#44sinio) Returns

void

#### [**#**](#2jxsxqh) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[afterDataLimits](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#afterdatalimits)

#### [**#**](#z337ya) Defined in

[index.esm.d.ts:951 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L951)

### [**#**](#3j2qqm3) afterDatasetDraw

▸ Optional **afterDatasetDraw**(chart, args, options): void

**desc** Called after the chart datasets at the given args.index have been drawn (datasets are drawn in the reverse order). Note that this hook will not be called if the datasets drawing has been previously cancelled.

#### [**#**](#1y810tw) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | Object | The call arguments. |
| args.index | number | The dataset index. |
| args.meta | [ChartMeta](http://docs.google.com/docs/3.9.1/api/#chartmeta)<[Element](http://docs.google.com/docs/3.9.1/api/#element)<AnyObject, AnyObject>, [Element](http://docs.google.com/docs/3.9.1/api/#element)<AnyObject, AnyObject>, keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html)> | The dataset metadata. |
| options | AnyObject | The plugin options. |

#### [**#**](#4i7ojhp) Returns

void

#### [**#**](#2xcytpi) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[afterDatasetDraw](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#afterdatasetdraw)

#### [**#**](#1ci93xb) Defined in

[index.esm.d.ts:1049 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1049)

### [**#**](#3whwml4) afterDatasetUpdate

▸ Optional **afterDatasetUpdate**(chart, args, options): void

**desc** Called after the chart datasets at the given args.index has been updated. Note that this hook will not be called if the datasets update has been previously cancelled.

#### [**#**](#2bn6wsx) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | Object | The call arguments. |
| args.cancelable | false | - |
| args.index | number | The dataset index. |
| args.meta | [ChartMeta](http://docs.google.com/docs/3.9.1/api/#chartmeta)<[Element](http://docs.google.com/docs/3.9.1/api/#element)<AnyObject, AnyObject>, [Element](http://docs.google.com/docs/3.9.1/api/#element)<AnyObject, AnyObject>, keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html)> | The dataset metadata. |
| args.mode | "resize" | "reset" | "none" | "hide" | "show" | "normal" | "active" | The update mode. |
| options | AnyObject | The plugin options. |

#### [**#**](#qsh70q) Returns

void

#### [**#**](#3as4poj) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[afterDatasetUpdate](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#afterdatasetupdate)

#### [**#**](#1pxezwc) Defined in

[index.esm.d.ts:926 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L926)

### [**#**](#49x2ik5) afterDatasetsDraw

▸ Optional **afterDatasetsDraw**(chart, args, options, cancelable): void

**desc** Called after the chart datasets have been drawn. Note that this hook will not be called if the datasets drawing has been previously cancelled.

#### [**#**](#2p2csry) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | EmptyObject | The call arguments. |
| options | AnyObject | The plugin options. |
| cancelable | false | - |

#### [**#**](#147n2zr) Returns

void

#### [**#**](#3o7alnk) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[afterDatasetsDraw](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#afterdatasetsdraw)

#### [**#**](#23ckvvd) Defined in

[index.esm.d.ts:1026 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1026)

### [**#**](#ihv636) afterDatasetsUpdate

▸ Optional **afterDatasetsUpdate**(chart, args, options): void

**desc** Called after the chart datasets have been updated. Note that this hook will not be called if the datasets update has been previously cancelled.

**since** version 2.1.5

#### [**#**](#32hioqz) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | Object | The call arguments. |
| args.cancelable | true | - |
| args.mode | "resize" | "reset" | "none" | "hide" | "show" | "normal" | "active" | The update mode. |
| options | AnyObject | The plugin options. |

#### [**#**](#1hmsyys) Returns

void

#### [**#**](#41mghml) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[afterDatasetsUpdate](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#afterdatasetsupdate)

#### [**#**](#2grqrue) Defined in

[index.esm.d.ts:903 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L903)

### [**#**](#vx1227) afterDestroy

▸ Optional **afterDestroy**(chart, args, options): void

Called after the chart has been destroyed.

#### [**#**](#3fwokq0) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | EmptyObject | The call arguments. |
| options | AnyObject | The plugin options. |

#### [**#**](#1v1yuxt) Returns

void

#### [**#**](#4f1mdlm) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[afterDestroy](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#afterdestroy)

#### [**#**](#2u6wntf) Defined in

[index.esm.d.ts:1102 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1102)

### [**#**](#19c6y18) afterDraw

▸ Optional **afterDraw**(chart, args, options): void

**desc** Called after the chart has been drawn. Note that this hook will not be called if the drawing has been previously cancelled.

#### [**#**](#3tbugp1) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | EmptyObject | The call arguments. |
| options | AnyObject | The plugin options. |

#### [**#**](#28h4qwu) Returns

void

#### [**#**](#nmf14n) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[afterDraw](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#afterdraw)

#### [**#**](#37m2jsg) Defined in

[index.esm.d.ts:1009 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1009)

### [**#**](#1mrcu09) afterEvent

▸ Optional **afterEvent**(chart, args, options): void

**desc** Called after the event has been consumed. Note that this hook will not be called if the event has been previously discarded.

#### [**#**](#46r0co2) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | Object | The call arguments. |
| args.cancelable | false | - |
| args.changed? | boolean | - |
| args.event | [ChartEvent](http://docs.google.com/docs/3.9.1/api/interfaces/ChartEvent.html) | The event object. |
| args.inChartArea | boolean | The event position is inside chartArea |
| args.replay | boolean | True if this event is replayed from Chart.update |
| options | AnyObject | The plugin options. |

#### [**#**](#2lwamvv) Returns

void

#### [**#**](#111kx3o) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[afterEvent](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#afterevent)

#### [**#**](#3l18frh) Defined in

[index.esm.d.ts:1072 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1072)

### [**#**](#206ipza) afterInit

▸ Optional **afterInit**(chart, args, options): void

**desc** Called after chart has been initialized and before the first update.

#### [**#**](#4k668n3) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | EmptyObject | The call arguments. |
| options | AnyObject | The plugin options. |

#### [**#**](#2zbgiuw) Returns

void

#### [**#**](#1egqt2p) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[afterInit](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#afterinit)

#### [**#**](#3ygebqi) Defined in

[index.esm.d.ts:847 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L847)

### [**#**](#2dlolyb) afterLayout

▸ Optional **afterLayout**(chart, args, options): void

**desc** Called after the chart has been laid out. Note that this hook will not be called if the layout update has been previously cancelled.

#### [**#**](#sqyw64) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | EmptyObject | The call arguments. |
| options | AnyObject | The plugin options. |

#### [**#**](#3cqmetx) Returns

void

#### [**#**](#1rvwp1q) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[afterLayout](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#afterlayout)

#### [**#**](#4bvk7pj) Defined in

[index.esm.d.ts:975 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L975)

### [**#**](#2r0uhxc) afterRender

▸ Optional **afterRender**(chart, args, options): void

**desc** Called after the chart has been fully rendered (and animation completed). Note that this hook will not be called if the rendering has been previously cancelled.

#### [**#**](#1664s55) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | EmptyObject | The call arguments. |
| options | AnyObject | The plugin options. |

#### [**#**](#3q5sasy) Returns

void

#### [**#**](#25b2l0r) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[afterRender](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#afterrender)

#### [**#**](#kgcv8k) Defined in

[index.esm.d.ts:992 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L992)

### [**#**](#34g0dwd) afterTooltipDraw

▸ Optional **afterTooltipDraw**(chart, args, options): void

**desc** Called after drawing the tooltip. Note that this hook will not be called if the tooltip drawing has been previously cancelled.

#### [**#**](#1jlao46) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | Object | The call arguments. |
| args.tooltip | [TooltipModel](http://docs.google.com/docs/3.9.1/api/interfaces/TooltipModel.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html)> | The tooltip. |
| options | AnyObject | The plugin options. |

#### [**#**](#43ky6rz) Returns

void

#### [**#**](#2iq8gzs) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[afterTooltipDraw](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#aftertooltipdraw)

#### [**#**](#xvir7l) Defined in

[index.esm.d.ts:2601 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L2601)

### [**#**](#3hv69ve) afterUpdate

▸ Optional **afterUpdate**(chart, args, options): void

**desc** Called after chart has been updated and before rendering. Note that this hook will not be called if the chart update has been previously cancelled.

#### [**#**](#1x0gk37) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | Object | The call arguments. |
| args.mode | "resize" | "reset" | "none" | "hide" | "show" | "normal" | "active" | The update mode |
| options | AnyObject | The plugin options. |

#### [**#**](#4h042r0) Returns

void

#### [**#**](#2w5ecyt) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[afterUpdate](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#afterupdate)

#### [**#**](#1baon6m) Defined in

[index.esm.d.ts:866 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L866)

### [**#**](#3vac5uf) beforeBuildTicks

▸ Optional **beforeBuildTicks**(chart, args, options): void

**desc** Called before scale builds its ticks. This hook is called separately for each scale in the chart.

#### [**#**](#2afmg28) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | Object | The call arguments. |
| args.scale | [Scale](http://docs.google.com/docs/3.9.1/api/classes/Scale.html)<[CoreScaleOptions](http://docs.google.com/docs/3.9.1/api/interfaces/CoreScaleOptions.html)> | The scale. |
| options | AnyObject | The plugin options. |

#### [**#**](#pkwqa1) Returns

void

#### [**#**](#39kk8xu) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[beforeBuildTicks](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#beforebuildticks)

#### [**#**](#1opuj5n) Defined in

[index.esm.d.ts:959 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L959)

### [**#**](#48pi1tg) beforeDataLimits

▸ Optional **beforeDataLimits**(chart, args, options): void

**desc** Called before scale data limits are calculated. This hook is called separately for each scale in the chart.

#### [**#**](#2nusc19) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | Object | The call arguments. |
| args.scale | [Scale](http://docs.google.com/docs/3.9.1/api/classes/Scale.html)<[CoreScaleOptions](http://docs.google.com/docs/3.9.1/api/interfaces/CoreScaleOptions.html)> | The scale. |
| options | AnyObject | The plugin options. |

#### [**#**](#1302m92) Returns

void

#### [**#**](#3mzq4wv) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[beforeDataLimits](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#beforedatalimits)

#### [**#**](#2250f4o) Defined in

[index.esm.d.ts:943 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L943)

### [**#**](#haapch) beforeDatasetDraw

▸ Optional **beforeDatasetDraw**(chart, args, options): boolean | void

**desc** Called before drawing the chart dataset at the given args.index (datasets are drawn in the reverse order). If any plugin returns false, the datasets drawing is cancelled until another render is triggered.

#### [**#**](#319y80a) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | Object | The call arguments. |
| args.index | number | The dataset index. |
| args.meta | [ChartMeta](http://docs.google.com/docs/3.9.1/api/#chartmeta)<[Element](http://docs.google.com/docs/3.9.1/api/#element)<AnyObject, AnyObject>, [Element](http://docs.google.com/docs/3.9.1/api/#element)<AnyObject, AnyObject>, keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html)> | The dataset metadata. |
| options | AnyObject | The plugin options. |

#### [**#**](#1gf8i83) Returns

boolean | void

false to cancel the chart datasets drawing.

#### [**#**](#40ew0vw) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[beforeDatasetDraw](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#beforedatasetdraw)

#### [**#**](#2fk6b3p) Defined in

[index.esm.d.ts:1038 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1038)

### [**#**](#upglbi) beforeDatasetUpdate

▸ Optional **beforeDatasetUpdate**(chart, args, options): boolean | void

**desc** Called before updating the chart dataset at the given args.index. If any plugin returns false, the datasets update is cancelled until another update is triggered.

#### [**#**](#3ep43zb) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | Object | The call arguments. |
| args.cancelable | true | - |
| args.index | number | The dataset index. |
| args.meta | [ChartMeta](http://docs.google.com/docs/3.9.1/api/#chartmeta)<[Element](http://docs.google.com/docs/3.9.1/api/#element)<AnyObject, AnyObject>, [Element](http://docs.google.com/docs/3.9.1/api/#element)<AnyObject, AnyObject>, keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html)> | The dataset metadata. |
| args.mode | "resize" | "reset" | "none" | "hide" | "show" | "normal" | "active" | The update mode. |
| options | AnyObject | The plugin options. |

#### [**#**](#1tuee74) Returns

boolean | void

false to cancel the chart datasets drawing.

#### [**#**](#4du1wux) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[beforeDatasetUpdate](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#beforedatasetupdate)

#### [**#**](#2szc72q) Defined in

[index.esm.d.ts:915 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L915)

### [**#**](#184mhaj) beforeDatasetsDraw

▸ Optional **beforeDatasetsDraw**(chart, args, options): boolean | void

**desc** Called before drawing the chart datasets. If any plugin returns false, the datasets drawing is cancelled until another render is triggered.

#### [**#**](#3s49zyc) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | Object | The call arguments. |
| args.cancelable | true | - |
| options | AnyObject | The plugin options. |

#### [**#**](#279ka65) Returns

boolean | void

false to cancel the chart datasets drawing.

#### [**#**](#meukdy) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[beforeDatasetsDraw](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#beforedatasetsdraw)

#### [**#**](#36ei31r) Defined in

[index.esm.d.ts:1018 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1018)

### [**#**](#1ljsd9k) beforeDatasetsUpdate

▸ Optional **beforeDatasetsUpdate**(chart, args, options): boolean | void

**desc** Called before updating the chart datasets. If any plugin returns false, the datasets update is cancelled until another update is triggered.

**since** version 2.1.5

#### [**#**](#45jfvxd) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | Object | The call arguments. |
| args.mode | "resize" | "reset" | "none" | "hide" | "show" | "normal" | "active" | The update mode. |
| options | AnyObject | The plugin options. |

#### [**#**](#2koq656) Returns

boolean | void

false to cancel the datasets update.

#### [**#**](#zu0gcz) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[beforeDatasetsUpdate](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#beforedatasetsupdate)

#### [**#**](#3jtnz0s) Defined in

[index.esm.d.ts:893 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L893)

### [**#**](#1yyy98l) beforeDestroy

▸ Optional **beforeDestroy**(chart, args, options): void

Called before the chart is being destroyed.

#### [**#**](#4iylrwe) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | EmptyObject | The call arguments. |
| options | AnyObject | The plugin options. |

#### [**#**](#2y3w247) Returns

void

#### [**#**](#1d96cc0) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[beforeDestroy](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#beforedestroy)

#### [**#**](#3x8tuzt) Defined in

[index.esm.d.ts:1087 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1087)

### [**#**](#2ce457m) beforeDraw

▸ Optional **beforeDraw**(chart, args, options): boolean | void

**desc** Called before drawing chart at every animation frame. If any plugin returns false, the frame drawing is cancelled untilanother render is triggered.

#### [**#**](#rjefff) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | Object | The call arguments. |
| args.cancelable | true | - |
| options | AnyObject | The plugin options. |

#### [**#**](#3bj1y38) Returns

boolean | void

false to cancel the chart drawing.

#### [**#**](#1qoc8b1) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[beforeDraw](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#beforedraw)

#### [**#**](#4anzqyu) Defined in

[index.esm.d.ts:1001 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1001)

### [**#**](#2pta16n) beforeElementsUpdate

▸ Optional **beforeElementsUpdate**(chart, args, options): void

**desc** Called during the update process, before any chart elements have been created. This can be used for data decimation by changing the data array inside a dataset.

#### [**#**](#14ykbeg) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | EmptyObject | The call arguments. |
| options | AnyObject | The plugin options. |

#### [**#**](#3oy7u29) Returns

void

#### [**#**](#243i4a2) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[beforeElementsUpdate](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#beforeelementsupdate)

#### [**#**](#j8sehv) Defined in

[index.esm.d.ts:874 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L874)

### [**#**](#338fx5o) beforeEvent

▸ Optional **beforeEvent**(chart, args, options): boolean | void

**desc** Called before processing the specified event. If any plugin returns false, the event will be discarded.

#### [**#**](#1idq7dh) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | Object | The call arguments. |
| args.cancelable | true | - |
| args.event | [ChartEvent](http://docs.google.com/docs/3.9.1/api/interfaces/ChartEvent.html) | The event object. |
| args.inChartArea | boolean | The event position is inside chartArea |
| args.replay | boolean | True if this event is replayed from Chart.update |
| options | AnyObject | The plugin options. |

#### [**#**](#42ddq1a) Returns

boolean | void

#### [**#**](#2hio093) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[beforeEvent](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#beforeevent)

#### [**#**](#wnyagw) Defined in

[index.esm.d.ts:1060 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1060)

### [**#**](#3gnlt4p) beforeInit

▸ Optional **beforeInit**(chart, args, options): void

**desc** Called before initializing chart.

#### [**#**](#1vsw3ci) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | EmptyObject | The call arguments. |
| options | AnyObject | The plugin options. |

#### [**#**](#4fsjm0b) Returns

void

#### [**#**](#2uxtw84) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[beforeInit](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#beforeinit)

#### [**#**](#1a346fx) Defined in

[index.esm.d.ts:840 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L840)

### [**#**](#3u2rp3q) beforeLayout

▸ Optional **beforeLayout**(chart, args, options): boolean | void

**desc** Called before laying out chart. If any plugin returns false, the layout update is cancelled until another update is triggered.

#### [**#**](#2981zbj) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | Object | The call arguments. |
| args.cancelable | true | - |
| options | AnyObject | The plugin options. |

#### [**#**](#odc9jc) Returns

boolean | void

false to cancel the chart layout.

#### [**#**](#38czs75) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[beforeLayout](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#beforelayout)

#### [**#**](#1nia2ey) Defined in

[index.esm.d.ts:935 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L935)

### [**#**](#47hxl2r) beforeRender

▸ Optional **beforeRender**(chart, args, options): boolean | void

**desc** Called before rendering chart. If any plugin returns false, the rendering is cancelled until another render is triggered.

#### [**#**](#2mn7vak) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | Object | The call arguments. |
| args.cancelable | true | - |
| options | AnyObject | The plugin options. |

#### [**#**](#11si5id) Returns

boolean | void

false to cancel the chart rendering.

#### [**#**](#3ls5o66) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[beforeRender](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#beforerender)

#### [**#**](#20xfydz) Defined in

[index.esm.d.ts:984 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L984)

### [**#**](#4kx3h1s) beforeTooltipDraw

▸ Optional **beforeTooltipDraw**(chart, args, options): boolean | void

**desc** Called before drawing the tooltip. If any plugin returns false, the tooltip drawing is cancelled until another render is triggered.

#### [**#**](#302dr9l) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | Object | The call arguments. |
| args.tooltip | [TooltipModel](http://docs.google.com/docs/3.9.1/api/interfaces/TooltipModel.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html)> | The tooltip. |
| options | AnyObject | The plugin options. |

#### [**#**](#1f7o1he) Returns

boolean | void

false to cancel the chart tooltip drawing.

#### [**#**](#3z7bk57) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[beforeTooltipDraw](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#beforetooltipdraw)

#### [**#**](#2eclud0) Defined in

[index.esm.d.ts:2592 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L2592)

### [**#**](#thw4kt) beforeUpdate

▸ Optional **beforeUpdate**(chart, args, options): boolean | void

**desc** Called before updating chart. If any plugin returns false, the update is cancelled (and thus subsequent render(s)) until another update is triggered.

#### [**#**](#3dhjn8m) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | Object | The call arguments. |
| args.cancelable | true | - |
| args.mode | "resize" | "reset" | "none" | "hide" | "show" | "normal" | "active" | The update mode |
| options | AnyObject | The plugin options. |

#### [**#**](#1smtxgf) Returns

boolean | void

false to cancel the chart update.

#### [**#**](#4cmhg48) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[beforeUpdate](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#beforeupdate)

#### [**#**](#2rrrqc1) Defined in

[index.esm.d.ts:857 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L857)

### [**#**](#16x20ju) destroy

▸ Optional **destroy**(chart, args, options): void

Called after the chart has been destroyed.

**deprecated** since version 3.7.0 in favour of afterDestroy

#### [**#**](#3qwpj7n) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | EmptyObject | The call arguments. |
| options | AnyObject | The plugin options. |

#### [**#**](#261ztfg) Returns

void

#### [**#**](#l7a3n9) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[destroy](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#destroy)

#### [**#**](#356xmb2) Defined in

[index.esm.d.ts:1095 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1095)

### [**#**](#1kc7wiv) install

▸ Optional **install**(chart, args, options): void

**desc** Called when plugin is installed for this chart instance. This hook is also invoked for disabled plugins (options === false).

**since** 3.0.0

#### [**#**](#44bvf6o) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | EmptyObject | The call arguments. |
| options | AnyObject | The plugin options. |

#### [**#**](#2jh5peh) Returns

void

#### [**#**](#ymfzma) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[install](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#install)

#### [**#**](#3im3ia3) Defined in

[index.esm.d.ts:817 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L817)

### [**#**](#1xrdshw) reset

▸ Optional **reset**(chart, args, options): void

**desc** Called during chart reset

**since** version 3.0.0

#### [**#**](#4hr1b5p) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | EmptyObject | The call arguments. |
| options | AnyObject | The plugin options. |

#### [**#**](#2wwbldi) Returns

void

#### [**#**](#1c1lvlb) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[reset](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#reset)

#### [**#**](#3w19e94) Defined in

[index.esm.d.ts:882 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L882)

### [**#**](#2b6jogx) resize

▸ Optional **resize**(chart, args, options): void

**desc** Called after the chart as been resized.

#### [**#**](#qbtyoq) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | Object | The call arguments. |
| args.size | Object | The new canvas display size (eq. canvas.style width & height). |
| args.size.height | number | - |
| args.size.width | number | - |
| options | AnyObject | The plugin options. |

#### [**#**](#3abhhcj) Returns

void

#### [**#**](#1pgrrkc) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[resize](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#resize)

#### [**#**](#49gfa85) Defined in

[index.esm.d.ts:1080 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1080)

### [**#**](#2olpkfy) start

▸ Optional **start**(chart, args, options): void

**desc** Called when a plugin is starting. This happens when chart is created or plugin is enabled.

**since** 3.0.0

#### [**#**](#13qzunr) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | EmptyObject | The call arguments. |
| options | AnyObject | The plugin options. |

#### [**#**](#3nqndbk) Returns

void

#### [**#**](#22vxnjd) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[start](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#start)

#### [**#**](#i17xr6) Defined in

[index.esm.d.ts:825 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L825)

### [**#**](#320vgez) stop

▸ Optional **stop**(chart, args, options): void

**desc** Called when a plugin stopping. This happens when chart is destroyed or plugin is disabled.

**since** 3.0.0

#### [**#**](#1h65qms) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | EmptyObject | The call arguments. |
| options | AnyObject | The plugin options. |

#### [**#**](#415t9al) Returns

void

#### [**#**](#2gb3jie) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[stop](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#stop)

#### [**#**](#vgdtq7) Defined in

[index.esm.d.ts:833 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L833)

### [**#**](#3fg1ce0) uninstall

▸ Optional **uninstall**(chart, args, options): void

Called after chart is destroyed on all plugins that were installed for that chart. This hook is also invoked for disabled plugins (options === false).

**since** 3.0.0

#### [**#**](#1ulbmlt) Parameters

| Name | Type | Description |
| --- | --- | --- |
| chart | [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)<keyof [ChartTypeRegistry](http://docs.google.com/docs/3.9.1/api/interfaces/ChartTypeRegistry.html), (number | [ScatterDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ScatterDataPoint.html) | [BubbleDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/BubbleDataPoint.html))[], unknown> | The chart instance. |
| args | EmptyObject | The call arguments. |
| options | AnyObject | The plugin options. |

#### [**#**](#4ekz59m) Returns

void

#### [**#**](#2tq9fhf) Inherited from

[Plugin](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html).[uninstall](http://docs.google.com/docs/3.9.1/api/interfaces/Plugin.html#uninstall)

#### [**#**](#18vjpp8) Defined in

[index.esm.d.ts:1110 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1110)

←  [TitleOptions](http://docs.google.com/docs/3.9.1/api/interfaces/TitleOptions.html)   [TooltipCallbacks](http://docs.google.com/docs/3.9.1/api/interfaces/TooltipCallbacks.html)  →