 [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/)

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Ecosystem Ecosystem

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* [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
    - [Animation](http://docs.google.com/docs/3.9.1/api/classes/Animation.html)
    - [Animations](http://docs.google.com/docs/3.9.1/api/classes/Animations.html)
    - [Animator](http://docs.google.com/docs/3.9.1/api/classes/Animator.html)
    - [BasePlatform](http://docs.google.com/docs/3.9.1/api/classes/BasePlatform.html)
    - [BasicPlatform](http://docs.google.com/docs/3.9.1/api/classes/BasicPlatform.html)
    - [Chart](http://docs.google.com/docs/3.9.1/api/classes/Chart.html)
    - [DatasetController](http://docs.google.com/docs/3.9.1/api/classes/DatasetController.html)
    - [DomPlatform](http://docs.google.com/docs/3.9.1/api/classes/DomPlatform.html)
    - [Scale](http://docs.google.com/docs/3.9.1/api/classes/Scale.html)
  + Interfaces

[**#**](#gjdgxs) Class: Scale<O>

## [**#**](#30j0zll) Type parameters

| Name | Type |
| --- | --- |
| O | extends [CoreScaleOptions](http://docs.google.com/docs/3.9.1/api/interfaces/CoreScaleOptions.html) = [CoreScaleOptions](http://docs.google.com/docs/3.9.1/api/interfaces/CoreScaleOptions.html) |

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

* [Element](http://docs.google.com/docs/3.9.1/api/#element)<unknown, O>
* [LayoutItem](http://docs.google.com/docs/3.9.1/api/interfaces/LayoutItem.html)  
  ↳ **Scale**  
  ↳↳ [TimeScale](http://docs.google.com/docs/3.9.1/api/interfaces/TimeScale.html)  
  ↳↳ [RadialLinearScale](http://docs.google.com/docs/3.9.1/api/interfaces/RadialLinearScale.html)

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

### [**#**](#2et92p0) constructor

• **new Scale**<O>(cfg)

#### [**#**](#tyjcwt) Type parameters

| Name | Type |
| --- | --- |
| O | extends [CoreScaleOptions](http://docs.google.com/docs/3.9.1/api/interfaces/CoreScaleOptions.html) = [CoreScaleOptions](http://docs.google.com/docs/3.9.1/api/interfaces/CoreScaleOptions.html) |

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

| Name | Type |
| --- | --- |
| cfg | Object |
| cfg.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> |
| cfg.ctx | CanvasRenderingContext2D |
| cfg.id | string |
| cfg.type | string |

#### [**#**](#1t3h5sf) Inherited from

Element<unknown, O>.constructor

#### [**#**](#4d34og8) Defined in

[index.esm.d.ts:1337 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1337)

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

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

• Readonly **active**: boolean

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

Element.active

#### [**#**](#26in1rg) Defined in

[element.d.ts:7 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/element.d.ts#L7)

### [**#**](#lnxbz9) axis

• **axis**: string

#### [**#**](#35nkun2) Defined in

[index.esm.d.ts:1239 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1239)

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

• **bottom**: number

Bottom edge of the item. Set by layout system and cannot be used in update

#### [**#**](#44sinio) Inherited from

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

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

[layout.d.ts:41 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/layout.d.ts#L41)

### [**#**](#z337ya) chart

• Readonly **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>

#### [**#**](#3j2qqm3) Defined in

[index.esm.d.ts:1229 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1229)

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

• Readonly **ctx**: CanvasRenderingContext2D

#### [**#**](#4i7ojhp) Defined in

[index.esm.d.ts:1228 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1228)

### [**#**](#2xcytpi) fullSize

• **fullSize**: boolean

if true, and the item is horizontal, then push vertical boxes down

#### [**#**](#1ci93xb) Inherited from

[LayoutItem](http://docs.google.com/docs/3.9.1/api/interfaces/LayoutItem.html).[fullSize](http://docs.google.com/docs/3.9.1/api/interfaces/LayoutItem.html#fullsize)

#### [**#**](#3whwml4) Defined in

[layout.d.ts:17 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/layout.d.ts#L17)

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

• **height**: number

Height of item. Must be valid after update()

#### [**#**](#qsh70q) Inherited from

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

#### [**#**](#3as4poj) Defined in

[layout.d.ts:25 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/layout.d.ts#L25)

### [**#**](#1pxezwc) id

• Readonly **id**: string

#### [**#**](#49x2ik5) Defined in

[index.esm.d.ts:1226 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1226)

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

• **labelRotation**: number

#### [**#**](#147n2zr) Defined in

[index.esm.d.ts:1240 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1240)

### [**#**](#3o7alnk) left

• **left**: number

Left edge of the item. Set by layout system and cannot be used in update

#### [**#**](#23ckvvd) Inherited from

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

#### [**#**](#ihv636) Defined in

[layout.d.ts:29 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/layout.d.ts#L29)

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

• **max**: number

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

[index.esm.d.ts:1242 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1242)

### [**#**](#41mghml) maxHeight

• **maxHeight**: number

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

[index.esm.d.ts:1232 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1232)

### [**#**](#vx1227) maxWidth

• **maxWidth**: number

#### [**#**](#3fwokq0) Defined in

[index.esm.d.ts:1231 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1231)

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

• **min**: number

#### [**#**](#4f1mdlm) Defined in

[index.esm.d.ts:1241 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1241)

### [**#**](#2u6wntf) options

• Readonly **options**: O

#### [**#**](#19c6y18) Inherited from

Element.options

#### [**#**](#3tbugp1) Defined in

[element.d.ts:8 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/element.d.ts#L8)

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

• **paddingBottom**: number

#### [**#**](#nmf14n) Defined in

[index.esm.d.ts:1235 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1235)

### [**#**](#37m2jsg) paddingLeft

• **paddingLeft**: number

#### [**#**](#1mrcu09) Defined in

[index.esm.d.ts:1236 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1236)

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

• **paddingRight**: number

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

[index.esm.d.ts:1237 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1237)

### [**#**](#111kx3o) paddingTop

• **paddingTop**: number

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

[index.esm.d.ts:1234 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1234)

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

• **position**: [LayoutPosition](http://docs.google.com/docs/3.9.1/api/#layoutposition)

The position of the item in the chart layout. Possible values are

#### [**#**](#4k668n3) Inherited from

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

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

[layout.d.ts:9 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/layout.d.ts#L9)

### [**#**](#1egqt2p) right

• **right**: number

Right edge of the item. Set by layout system and cannot be used in update

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

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

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

[layout.d.ts:37 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/layout.d.ts#L37)

### [**#**](#sqyw64) ticks

• **ticks**: [Tick](http://docs.google.com/docs/3.9.1/api/interfaces/Tick.html)[]

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

[index.esm.d.ts:1243 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1243)

### [**#**](#1rvwp1q) top

• **top**: number

Top edge of the item. Set by layout system and cannot be used in update

#### [**#**](#4bvk7pj) Inherited from

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

#### [**#**](#2r0uhxc) Defined in

[layout.d.ts:33 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/layout.d.ts#L33)

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

• Readonly **type**: string

#### [**#**](#3q5sasy) Defined in

[index.esm.d.ts:1227 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1227)

### [**#**](#25b2l0r) weight

• **weight**: number

The weight used to sort the item. Higher weights are further away from the chart area

#### [**#**](#kgcv8k) Inherited from

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

#### [**#**](#34g0dwd) Defined in

[layout.d.ts:13 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/layout.d.ts#L13)

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

• **width**: number

Width of item. Must be valid after update()

#### [**#**](#43ky6rz) Inherited from

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

#### [**#**](#2iq8gzs) Defined in

[layout.d.ts:21 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/layout.d.ts#L21)

### [**#**](#xvir7l) x

• Readonly **x**: number

#### [**#**](#3hv69ve) Inherited from

Element.x

#### [**#**](#1x0gk37) Defined in

[element.d.ts:5 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/element.d.ts#L5)

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

• Readonly **y**: number

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

Element.y

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

[element.d.ts:6 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/element.d.ts#L6)

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

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

▸ **afterBuildTicks**(): void

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

void

#### [**#**](#39kk8xu) Defined in

[index.esm.d.ts:1323 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1323)

### [**#**](#1opuj5n) afterCalculateLabelRotation

▸ **afterCalculateLabelRotation**(): void

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

void

#### [**#**](#2nusc19) Defined in

[index.esm.d.ts:1329 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1329)

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

▸ **afterDataLimits**(): void

#### [**#**](#3mzq4wv) Returns

void

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

[index.esm.d.ts:1320 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1320)

### [**#**](#haapch) afterFit

▸ **afterFit**(): void

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

void

#### [**#**](#1gf8i83) Defined in

[index.esm.d.ts:1332 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1332)

### [**#**](#40ew0vw) afterSetDimensions

▸ **afterSetDimensions**(): void

#### [**#**](#2fk6b3p) Returns

void

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

[index.esm.d.ts:1317 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1317)

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

▸ **afterTickToLabelConversion**(): void

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

void

#### [**#**](#4du1wux) Defined in

[index.esm.d.ts:1326 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1326)

### [**#**](#2szc72q) afterUpdate

▸ **afterUpdate**(): void

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

void

#### [**#**](#3s49zyc) Defined in

[index.esm.d.ts:1314 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1314)

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

▸ **beforeBuildTicks**(): void

#### [**#**](#meukdy) Returns

void

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

[index.esm.d.ts:1321 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1321)

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

▸ **beforeCalculateLabelRotation**(): void

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

void

#### [**#**](#2koq656) Defined in

[index.esm.d.ts:1327 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1327)

### [**#**](#zu0gcz) beforeDataLimits

▸ **beforeDataLimits**(): void

#### [**#**](#3jtnz0s) Returns

void

#### [**#**](#1yyy98l) Defined in

[index.esm.d.ts:1318 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1318)

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

▸ **beforeFit**(): void

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

void

#### [**#**](#1d96cc0) Defined in

[index.esm.d.ts:1330 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1330)

### [**#**](#3x8tuzt) beforeLayout

▸ Optional **beforeLayout**(): void

Called before the layout process starts

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

void

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

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

#### [**#**](#3bj1y38) Defined in

[layout.d.ts:46 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/layout.d.ts#L46)

### [**#**](#1qoc8b1) beforeSetDimensions

▸ **beforeSetDimensions**(): void

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

void

#### [**#**](#2pta16n) Defined in

[index.esm.d.ts:1315 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1315)

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

▸ **beforeTickToLabelConversion**(): void

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

void

#### [**#**](#243i4a2) Defined in

[index.esm.d.ts:1324 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1324)

### [**#**](#j8sehv) beforeUpdate

▸ **beforeUpdate**(): void

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

void

#### [**#**](#1idq7dh) Defined in

[index.esm.d.ts:1312 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1312)

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

▸ **buildTicks**(): [Tick](http://docs.google.com/docs/3.9.1/api/interfaces/Tick.html)[]

#### [**#**](#2hio093) Returns

[Tick](http://docs.google.com/docs/3.9.1/api/interfaces/Tick.html)[]

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

[index.esm.d.ts:1322 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1322)

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

▸ **calculateLabelRotation**(): void

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

void

#### [**#**](#4fsjm0b) Defined in

[index.esm.d.ts:1328 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1328)

### [**#**](#2uxtw84) configure

▸ **configure**(): void

#### [**#**](#1a346fx) Returns

void

#### [**#**](#3u2rp3q) Defined in

[index.esm.d.ts:1313 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1313)

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

▸ **determineDataLimits**(): void

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

void

#### [**#**](#38czs75) Defined in

[index.esm.d.ts:1319 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1319)

### [**#**](#1nia2ey) draw

▸ **draw**(chartArea): void

Draws the element

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

| Name | Type |
| --- | --- |
| chartArea | [ChartArea](http://docs.google.com/docs/3.9.1/api/interfaces/ChartArea.html) |

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

void

#### [**#**](#11si5id) Inherited from

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

#### [**#**](#3ls5o66) Defined in

[layout.d.ts:50 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/layout.d.ts#L50)

### [**#**](#20xfydz) drawGrid

▸ **drawGrid**(chartArea): void

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

| Name | Type |
| --- | --- |
| chartArea | [ChartArea](http://docs.google.com/docs/3.9.1/api/interfaces/ChartArea.html) |

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

void

#### [**#**](#1f7o1he) Defined in

[index.esm.d.ts:1248 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1248)

### [**#**](#3z7bk57) drawLabels

▸ **drawLabels**(chartArea): void

#### [**#**](#2eclud0) Parameters

| Name | Type |
| --- | --- |
| chartArea | [ChartArea](http://docs.google.com/docs/3.9.1/api/interfaces/ChartArea.html) |

#### [**#**](#thw4kt) Returns

void

#### [**#**](#3dhjn8m) Defined in

[index.esm.d.ts:1247 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1247)

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

▸ **drawTitle**(chartArea): void

#### [**#**](#4cmhg48) Parameters

| Name | Type |
| --- | --- |
| chartArea | [ChartArea](http://docs.google.com/docs/3.9.1/api/interfaces/ChartArea.html) |

#### [**#**](#2rrrqc1) Returns

void

#### [**#**](#16x20ju) Defined in

[index.esm.d.ts:1246 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1246)

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

▸ **fit**(): void

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

void

#### [**#**](#l7a3n9) Defined in

[index.esm.d.ts:1331 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1331)

### [**#**](#356xmb2) generateTickLabels

▸ **generateTickLabels**(ticks): void

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

| Name | Type |
| --- | --- |
| ticks | [Tick](http://docs.google.com/docs/3.9.1/api/interfaces/Tick.html)[] |

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

void

#### [**#**](#2jh5peh) Defined in

[index.esm.d.ts:1325 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1325)

### [**#**](#ymfzma) getBasePixel

▸ **getBasePixel**(): number

Returns the pixel for the minimum chart value The coordinate (0, 0) is at the upper-left corner of the canvas

#### [**#**](#3im3ia3) Returns

number

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

[index.esm.d.ts:1304 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1304)

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

▸ **getBaseValue**(): number

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

number

#### [**#**](#1c1lvlb) Defined in

[index.esm.d.ts:1298 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1298)

### [**#**](#3w19e94) getDecimalForPixel

▸ **getDecimalForPixel**(pixel): number

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

| Name | Type |
| --- | --- |
| pixel | number |

#### [**#**](#qbtyoq) Returns

number

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

[index.esm.d.ts:1254 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1254)

### [**#**](#1pgrrkc) getLabelForValue

▸ **getLabelForValue**(value): string

Used to get the label to display in the tooltip for the given value

#### [**#**](#49gfa85) Parameters

| Name | Type |
| --- | --- |
| value | number |

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

string

#### [**#**](#13qzunr) Defined in

[index.esm.d.ts:1274 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1274)

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

▸ **getLabels**(): string[]

#### [**#**](#22vxnjd) Returns

string[]

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

[index.esm.d.ts:1311 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1311)

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

▸ **getLineWidthForValue**(value): number

Returns the grid line width at given value

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

| Name | Type |
| --- | --- |
| value | number |

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

number

#### [**#**](#2gb3jie) Defined in

[index.esm.d.ts:1279 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1279)

### [**#**](#vgdtq7) getMatchingVisibleMetas

▸ **getMatchingVisibleMetas**(type?): [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)>[]

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

| Name | Type |
| --- | --- |
| type? | string |

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

[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)>[]

#### [**#**](#4ekz59m) Defined in

[index.esm.d.ts:1244 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1244)

### [**#**](#2tq9fhf) getMinMax

▸ **getMinMax**(canStack): Object

#### [**#**](#18vjpp8) Parameters

| Name | Type |
| --- | --- |
| canStack | boolean |

#### [**#**](#3sv78d1) Returns

Object

| Name | Type |
| --- | --- |
| max | number |
| min | number |

#### [**#**](#280hiku) Defined in

[index.esm.d.ts:1309 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1309)

### [**#**](#n5rssn) getPadding

▸ Optional **getPadding**(): [ChartArea](http://docs.google.com/docs/3.9.1/api/interfaces/ChartArea.html)

Returns an object with padding on the edges

#### [**#**](#375fbgg) Returns

[ChartArea](http://docs.google.com/docs/3.9.1/api/interfaces/ChartArea.html)

#### [**#**](#1maplo9) Inherited from

[LayoutItem](http://docs.google.com/docs/3.9.1/api/interfaces/LayoutItem.html).[getPadding](http://docs.google.com/docs/3.9.1/api/interfaces/LayoutItem.html#getpadding)

#### [**#**](#46ad4c2) Defined in

[layout.d.ts:54 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/layout.d.ts#L54)

### [**#**](#2lfnejv) getPixelForDecimal

▸ **getPixelForDecimal**(decimal): number

Utility for getting the pixel location of a percentage of scale The coordinate (0, 0) is at the upper-left corner of the canvas

#### [**#**](#10kxoro) Parameters

| Name | Type |
| --- | --- |
| decimal | number |

#### [**#**](#3kkl7fh) Returns

number

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

[index.esm.d.ts:1261 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1261)

### [**#**](#4jpj0b3) getPixelForTick

▸ **getPixelForTick**(index): number

Returns the location of the tick at the given index The coordinate (0, 0) is at the upper-left corner of the canvas

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

| Name | Type |
| --- | --- |
| index | number |

#### [**#**](#1e03kqp) Returns

number

#### [**#**](#3xzr3ei) Defined in

[index.esm.d.ts:1268 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1268)

### [**#**](#2d51dmb) getPixelForValue

▸ **getPixelForValue**(value, index?): number

Returns the location of the given data point. Value can either be an index or a numerical value The coordinate (0, 0) is at the upper-left corner of the canvas

#### [**#**](#sabnu4) Parameters

| Name | Type |
| --- | --- |
| value | number |
| index? | number |

#### [**#**](#3c9z6hx) Returns

number

#### [**#**](#1rf9gpq) Defined in

[index.esm.d.ts:1288 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1288)

### [**#**](#4bewzdj) getProps

▸ **getProps**<P>(props, final?): Pick<unknown, P[number]>

#### [**#**](#2qk79lc) Type parameters

| Name | Type |
| --- | --- |
| P | extends never[] |

#### [**#**](#15phjt5) Parameters

| Name | Type |
| --- | --- |
| props | P |
| final? | boolean |

#### [**#**](#3pp52gy) Returns

Pick<unknown, P[number]>

#### [**#**](#24ufcor) Inherited from

Element.getProps

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

[element.d.ts:12 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/element.d.ts#L12)

### [**#**](#33zd5kd) getTicks

▸ **getTicks**(): [Tick](http://docs.google.com/docs/3.9.1/api/interfaces/Tick.html)[]

#### [**#**](#1j4nfs6) Returns

[Tick](http://docs.google.com/docs/3.9.1/api/interfaces/Tick.html)[]

#### [**#**](#434ayfz) Defined in

[index.esm.d.ts:1310 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1310)

### [**#**](#2i9l8ns) getUserBounds

▸ **getUserBounds**(): Object

#### [**#**](#xevivl) Returns

Object

| Name | Type |
| --- | --- |
| max | number |
| maxDefined | boolean |
| min | number |
| minDefined | boolean |

#### [**#**](#3hej1je) Defined in

[index.esm.d.ts:1308 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1308)

### [**#**](#1wjtbr7) getValueForPixel

▸ **getValueForPixel**(pixel): number

Used to get the data value from a given pixel. This is the inverse of getPixelForValue The coordinate (0, 0) is at the upper-left corner of the canvas

#### [**#**](#4gjguf0) Parameters

| Name | Type |
| --- | --- |
| pixel | number |

#### [**#**](#2vor4mt) Returns

number

#### [**#**](#1au1eum) Defined in

[index.esm.d.ts:1296 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1296)

### [**#**](#3utoxif) hasValue

▸ **hasValue**(): boolean

#### [**#**](#29yz7q8) Returns

boolean

#### [**#**](#p49hy1) Inherited from

Element.hasValue

#### [**#**](#393x0lu) Defined in

[element.d.ts:11 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/element.d.ts#L11)

### [**#**](#1o97atn) init

▸ **init**(options): void

#### [**#**](#488uthg) Parameters

| Name | Type |
| --- | --- |
| options | O |

#### [**#**](#2ne53p9) Returns

void

#### [**#**](#12jfdx2) Defined in

[index.esm.d.ts:1306 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1306)

### [**#**](#3mj2wkv) isFullSize

▸ **isFullSize**(): boolean

#### [**#**](#21od6so) Returns

boolean

#### [**#**](#gtnh0h) Defined in

[index.esm.d.ts:1334 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1334)

### [**#**](#30tazoa) isHorizontal

▸ **isHorizontal**(): boolean

returns true if the layout item is horizontal (ie. top or bottom)

#### [**#**](#1fyl9w3) Returns

boolean

#### [**#**](#3zy8sjw) Inherited from

[LayoutItem](http://docs.google.com/docs/3.9.1/api/interfaces/LayoutItem.html).[isHorizontal](http://docs.google.com/docs/3.9.1/api/interfaces/LayoutItem.html#ishorizontal)

#### [**#**](#2f3j2rp) Defined in

[layout.d.ts:58 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/layout.d.ts#L58)

### [**#**](#u8tczi) parse

▸ **parse**(raw, index): unknown

#### [**#**](#3e8gvnb) Parameters

| Name | Type |
| --- | --- |
| raw | unknown |
| index | number |

#### [**#**](#1tdr5v4) Returns

unknown

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

[index.esm.d.ts:1307 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1307)

### [**#**](#2sioyqq) setDimensions

▸ **setDimensions**(): void

#### [**#**](#17nz8yj) Returns

void

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

[index.esm.d.ts:1316 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/index.esm.d.ts#L1316)

### [**#**](#26sx1u5) tooltipPosition

▸ **tooltipPosition**(useFinalPosition?): [Point](http://docs.google.com/docs/3.9.1/api/interfaces/Point.html)

#### [**#**](#ly7c1y) Parameters

| Name | Type |
| --- | --- |
| useFinalPosition? | boolean |

#### [**#**](#35xuupr) Returns

[Point](http://docs.google.com/docs/3.9.1/api/interfaces/Point.html)

#### [**#**](#1l354xk) Inherited from

Element.tooltipPosition

#### [**#**](#452snld) Defined in

[element.d.ts:10 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/element.d.ts#L10)

### [**#**](#2k82xt6) update

▸ **update**(width, height, margins?): void

Takes two parameters: width and height.

#### [**#**](#zdd80z) Parameters

| Name | Type |
| --- | --- |
| width | number |
| height | number |
| margins? | [ChartArea](http://docs.google.com/docs/3.9.1/api/interfaces/ChartArea.html) |

#### [**#**](#3jd0qos) Returns

void

#### [**#**](#1yib0wl) Inherited from

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

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

[layout.d.ts:64 (opens new window)](https://github.com/chartjs/Chart.js/blob/5ea4b3a/types/layout.d.ts#L64)

←  [DomPlatform](http://docs.google.com/docs/3.9.1/api/classes/DomPlatform.html)   [ActiveDataPoint](http://docs.google.com/docs/3.9.1/api/interfaces/ActiveDataPoint.html)  →