

D3 ライブラリの全ては名前空間 `d3` 以下に存在します・

D3 は[セマンティックバージョニング](#)を使用しています。使用中の D3 のバージョンは `d3.version` として参照する事ができます。

See one of:

- [Behaviors](#) - 再利用可能なインタラクション挙動
- [Core](#) - selection、transition、データ、ローカライズ、色、等
- [Geography](#) - 極座標データの表示、緯度と経度の計算
- [Geometry](#) - ボロノイ図や四分木といった二次元幾何学ユーティリティ
- [Layouts](#) - 要素の位置決めのための二次データの導出
- [Scales](#) - データから視覚情報への変換
- [SVG](#) - Scalable Vector Graphics 作成の為のユーティリティ
- [Time](#) - 時刻のパースとフォーマット、カレンダーと周期の計算、等

d3 (core)

Selections

- [d3.event](#) - インタラクションのためのユーザイベントへアクセス
- [d3.mouse](#) - 指定されたコンテナに対する相対マウス位置を取得
- [d3.select](#) - 現在のドキュメントから一つの要素を選択
- [d3.selectAll](#) - 現在のドキュメントから複数の要素を選択
- [d3.selection](#) - selection プロトタイプの拡張、もしくはインスタンス型のテスト
- [d3.touch](#) - 指定されたコンテナに対する相対タッチ位置を取得
- [d3.touches](#) - 指定されたコンテナに対する複数の相対タッチ位置を取得
- [selection.append](#) - 新しい要素の作成と追加
- [selection.attr](#) - 属性値の取得と設定
- [selection.call](#) - 現在の selection を渡しての関数呼び出し
- [selection.classed](#) - CSS クラスの追加と削除
- [selection.data](#) - データと要素の対応づけを伴う、要素のグループに対するデータの設定と取得
- [selection.datum](#) - データと要素の対応づけを伴わない、個々の要素に対するデータの設定と取得
- [selection.each](#) - 選択された要素それぞれに対する関数呼び出し
- [selection.empty](#) - selection が空の場合 true を返す
- [selection.enter](#) - 存在しない要素のためのプレースホルダを返す
- [selection.exit](#) - 不必要になった要素を返す
- [selection.filter](#) - データに基づいた selection の絞り込み
- [selection.html](#) - 要素の innerHTML プロパティの設定と取得
- [selection.insert](#) - 要素が存在するようになる前の新しい要素の作成と挿入
- [selection.interrupt](#) - 現在の transition に対する即時割り込み
- [selection.node](#) - selection 中の最初の要素を返す
- [selection.on](#) - インタラクションのためにイベントリスナの追加と削除
- [selection.order](#) - ドキュメント中の要素を selection に合うように並べ替える
- [selection.property](#) - 未加工プロパティの取得
- [selection.remove](#) - ドキュメントからの要素の削除
- [selection.select](#) - 選択された要素それぞれから一つの子要素を選択
- [selection.selectAll](#) - 選択された要素それぞれから複数の子要素を選択
- [selection.size](#) - selection 中の要素の数を返す
- [selection.sort](#) - データに基づいたドキュメント中の要素のソート

- [selection.style](#) - スタイルプロパティの設定と取得
- [selection.text](#) - 要素の textContent プロパティの設定と取得
- [selection.transition](#) - 選択された要素の遷移を開始

Transitions

- [d3.ease](#) - 遷移タイミングをカスタマイズ
- [d3.timer](#) - カスタムアニメーションタイマの開始
- [d3.interpolate](#) - 二値の補間
- [d3.interpolateArray](#) - 二つの配列の値の補間
- [d3.interpolateHcl](#) - 二つの HCL 形式色データの補間
- [d3.interpolateHsl](#) - 二つの HSL 形式色データの補間
- [d3.interpolateLab](#) - 二つの L*a*b* 形式色データの補間
- [d3.interpolateNumber](#) - 二つの数値の補間
- [d3.interpolateNumber](#) - 二つの任意のオブジェクトの補間
- [d3.interpolateRgb](#) - 二つの RGB 形式色データの補間
- [d3.interpolateRound](#) - 二つの整数の補間
- [d3.interpolateRound](#) - 二つの文字列の補間
- [d3.interpolateString](#) - interpolate two strings.
- [d3.interpolateTransform](#) - 二つの二次元配列の補間
- [d3.interpolateZoom](#) - 二つの点の滑らかなズームとパン
- [d3.interpolators](#) - カスタム補間関数の登録
- [d3.timer.flush](#) - ゼロ遅延タイマの即時実行
- [d3.transition](#) - 遷移アニメーションの開始
- [ease](#) - パラメータ制御平滑化関数
- [interpolate](#) - パラメータ制御補間関数
- [transition.attr](#) - 新しい属性値へ滑らかに遷移
- [transition.attrTween](#) - 二つの属性値の間で滑らかに遷移
- [transition.call](#) - 現在の transition に対する関数の呼び出し
- [transition.delay](#) - 要素毎のミリセカンド単位の遅延の指定
- [transition.duration](#) - 要素毎のミリセカンド単位の持続時間の指定
- [transition.each](#) - 遷移終了イベントのリスナを追加
- [transition.ease](#) - 遷移平滑化関数の指定
- [transition.empty](#) - transition が空のとき true を返す
- [transition.filter](#) - データに基づいた transition の絞り込み
- [transition.node](#) - transition の最初のノードを返す
- [transition.remove](#) - transition の終了時に指定された要素を削除
- [transition.select](#) - 選択された要素それぞれのうち一つの子要素について遷移を開始
- [transition.selectAll](#) - 選択された要素の全ての子要素について遷移を開始
- [transition.size](#) - selection 中の要素の数を返す
- [transition.style](#) - 新しいスタイルプロパティ値へ滑らかに遷移
- [transition.styleTween](#) - 二つのスタイルプロパティ値の間で滑らかに遷移
- [transition.text](#) - 遷移開始時に内容テキストを設定
- [transition.transition](#) - この遷移が終了したら、同じ要素で別の新しい遷移を開始
- [transition.tween](#) - transition の一部として実行される、カスタム tween 演算子を指定

Working with Arrays

- [d3.ascending](#) - compare two values for sorting.
- [d3.bisectLeft](#) - search for a value in a sorted array.
- [d3.bisector](#) - bisect using an accessor or comparator.
- [d3.bisectRight](#) - search for a value in a sorted array.

- [d3.bisect](#) - search for a value in a sorted array.
- [d3.descending](#) - compare two values for sorting.
- [d3.deviation](#) - compute the standard deviation of an array of numbers.
- [d3.entries](#) - list the key-value entries of an associative array.
- [d3.extent](#) - find the minimum and maximum value in an array.
- [d3.keys](#) - list the keys of an associative array.
- [d3.map](#) - a shim for ES6 maps, since objects are not hashes!
- [map.empty](#) - returns false if the map has at least one entry.
- [map.entries](#) - returns the map's array of entries (key-values objects).
- [map.forEach](#) - calls the specified function for each entry in the map.
- [map.get](#) - returns the value for the specified key.
- [map.has](#) - returns true if the map contains the specified key.
- [map.keys](#) - returns the map's array of keys.
- [map.remove](#) - removes the entry for specified key.
- [map.set](#) - sets the value for the specified key.
- [map.size](#) - returns the number of entries in the map.
- [map.values](#) - returns the map's array of values.
- [d3.max](#) - find the maximum value in an array.
- [d3.mean](#) - compute the arithmetic mean of an array of numbers.
- [d3.median](#) - compute the median of an array of numbers (the 0.5-quantile).
- [d3.merge](#) - merge multiple arrays into one array.
- [d3.min](#) - find the minimum value in an array.
- [d3.nest](#) - group array elements hierarchically.
- [nest.entries](#) - evaluate the nest operator, returning an array of key-values tuples.
- [nest.key](#) - add a level to the nest hierarchy.
- [nest.map](#) - evaluate the nest operator, returning an associative array.
- [nest.rollup](#) - specify a rollup function for leaf values.
- [nest.sortKeys](#) - sort the current nest level by key.
- [nest.sortValues](#) - sort the leaf nest level by value.
- [d3.pairs](#) - returns an array of adjacent pairs of elements.
- [d3.permute](#) - reorder an array of elements according to an array of indexes.
- [d3.quantile](#) - compute a quantile for a sorted array of numbers.
- [d3.range](#) - generate a range of numeric values.
- [d3.set](#) - a shim for ES6 sets, since objects are not hashes!
- [set.add](#) - adds the specified value.
- [set.empty](#) - returns true if the set has at least one value.
- [set.forEach](#) - calls the specified function for each value in the set.
- [set.has](#) - returns true if the set contains the specified value.
- [set.remove](#) - removes the specified value.
- [set.size](#) - returns the number of values in the set.
- [set.values](#) - returns the set's array of values.
- [d3.shuffle](#) - randomize the order of an array.
- [d3.sum](#) - compute the sum of an array of numbers.
- [d3.transpose](#) - transpose an array of arrays.
- [d3.values](#) - list the values of an associated array.
- [d3.variance](#) - compute the variance of an array of numbers.
- [d3.zip](#) - transpose a variable number of arrays.

Math

- [d3.random.bates](#) - generate a random number with a Bates distribution.

- [d3.random.irwinHall](#) - generate a random number with an Irwin–Hall distribution.
- [d3.random.logNormal](#) - generate a random number with a log-normal distribution.
- [d3.random.normal](#) - generate a random number with a normal distribution.
- [d3.transform](#) - compute the standard form of a 2D matrix transform.

Loading External Resources

- [d3.csv](#) - request a comma-separated values (CSV) file.
- [d3.html](#) - request an HTML document fragment.
- [d3.json](#) - request a JSON blob.
- [d3.text](#) - request a text file.
- [d3.tsv](#) - request a tab-separated values (TSV) file.
- [d3.xhr](#) - request a resource using XMLHttpRequest.
- [d3.xml](#) - request an XML document fragment.
- [xhr.abort](#) - abort an outstanding request.
- [xhr.get](#) - issue a GET request.
- [xhr.header](#) - set a request header.
- [xhr.mimeType](#) - set the Accept request header and override the response MIME type.
- [xhr.on](#) - add an event listener for "progress", "load" or "error" events.
- [xhr.post](#) - issue a POST request.
- [xhr.response](#) - set a response mapping function.
- [xhr.send](#) - issue a request with the specified method and data.

String Formatting

- [d3.format](#) - format a number as a string.
- [d3.formatPrefix](#) - returns the [SI prefix](#) for the specified value and precision.
- [d3.regquote](#) - quote a string for use in a regular expression.
- [d3.round](#) - rounds a value to some digits after the decimal point.

CSV Formatting (d3.csv)

- [d3.csv.formatRows](#) - format an array of tuples into a CSV string.
- [d3.csv.format](#) - format an array of objects into a CSV string.
- [d3.csv.parseRows](#) - parse a CSV string into tuples, ignoring the header row.
- [d3.csv.parse](#) - parse a CSV string into objects using the header row.
- [d3.csv](#) - request a comma-separated values (CSV) file.
- [d3.dsv](#) - create a parser/formatter for the specified delimiter and mime type.
- [d3.tsv.formatRows](#) - format an array of tuples into a TSV string.
- [d3.tsv.format](#) - format an array of objects into a TSV string.
- [d3.tsv.parseRows](#) - parse a TSV string into tuples, ignoring the header row.
- [d3.tsv.parse](#) - parse a TSV string into objects using the header row.
- [d3.tsv](#) - request a tab-separated values (TSV) file.

Localization

- [d3.locale](#) - create a new locale using the specified strings.
- [locale.numberFormat](#) - create a new number formatter.
- [locale.timeFormat](#) - create a new time formatter / parser.

Colors

- [d3.hcl](#) - specify a color in HCL space.
- [d3.hsl](#) - specify a color in HSL space.
- [d3.lab](#) - specify a color in L*a*b* space.

- [d3.rgb](#) - specify a color in RGB space.
- [hcl.brighter](#) - increase lightness by some exponential factor (gamma).
- [hcl.darker](#) - decrease lightness by some exponential factor (gamma).
- [hcl.rgb](#) - convert from HCL to RGB.
- [hcl.toString](#) - convert an HCL color to a string.
- [hsl.brighter](#) - increase lightness by some exponential factor (gamma).
- [hsl.darker](#) - decrease lightness by some exponential factor (gamma).
- [hsl.rgb](#) - convert from HSL to RGB.
- [hsl.toString](#) - convert an HSL color to a string.
- [lab.brighter](#) - increase lightness by some exponential factor (gamma).
- [lab.darker](#) - decrease lightness by some exponential factor (gamma).
- [lab.rgb](#) - convert from L*a*b* to RGB.
- [lab.toString](#) - convert a L*a*b* color to a string.
- [rgb.brighter](#) - increase RGB channels by some exponential factor (gamma).
- [rgb.darker](#) - decrease RGB channels by some exponential factor (gamma).
- [rgb.hsl](#) - convert from RGB to HSL.
- [rgb.toString](#) - convert an RGB color to a string.

Namespaces

- [d3.ns.prefix](#) - access or extend known XML namespaces.
- [d3.ns.qualify](#) - qualify a prefixed name, such as "xlink:href".

Internals

- [d3.dispatch](#) - create a custom event dispatcher.
- [d3.functor](#) - create a function that returns a constant.
- [d3.rebind](#) - rebind an inherited getter/setter method to a subclass.
- [dispatch.on](#) - register or unregister an event listener.
- [dispatch.type](#) - dispatch an event to registered listeners.

d3.scale (Scales)

Quantitative

- [d3.scale.identity](#) - construct a linear identity scale.
- [d3.scale.linear](#) - construct a linear quantitative scale.
- [d3.scale.log](#) - construct a quantitative scale with an logarithmic transform.
- [d3.scale.pow](#) - construct a quantitative scale with an exponential transform.
- [d3.scale.quantile](#) - construct a quantitative scale mapping to quantiles.
- [d3.scale.quantize](#) - construct a linear quantitative scale with a discrete output range.
- [d3.scale.sqrt](#) - construct a quantitative scale with a square root transform.
- [d3.scale.threshold](#) - construct a threshold scale with a discrete output range.
- [identity.copy](#) - create a new scale from an existing scale.
- [identity.domain](#) - get or set the scale's domain and range.
- [identity.invert](#) - equivalent to identity; the identity function.
- [identity.range](#) - equivalent to identity.domain.
- [identity.tickFormat](#) - get a formatter for displaying tick values.
- [identity.ticks](#) - get representative values from the domain.
- [identity](#) - the identity function.
- [linear.clamp](#) - enable or disable clamping of the output range.
- [linear.copy](#) - create a new scale from an existing scale.
- [linear.domain](#) - get or set the scale's input domain.

- [linear.interpolate](#) - get or set the scale's output interpolator.
- [linear.invert](#) - get the domain value corresponding to a given range value.
- [linear.nice](#) - extend the scale domain to nice round numbers.
- [linear.rangeRound](#) - set the scale's output range, and enable rounding.
- [linear.range](#) - get or set the scale's output range.
- [linear.tickFormat](#) - get a formatter for displaying tick values.
- [linear.ticks](#) - get representative values from the input domain.
- [linear](#) - get the range value corresponding to a given domain value.
- [log.clamp](#) - enable or disable clamping of the output range.
- [log.copy](#) - create a new scale from an existing scale.
- [log.domain](#) - get or set the scale's input domain.
- [log.interpolate](#) - get or set the scale's output interpolator.
- [log.invert](#) - get the domain value corresponding to a given range value.
- [log.nice](#) - extend the scale domain to nice powers of ten.
- [log.rangeRound](#) - set the scale's output range, and enable rounding.
- [log.range](#) - get or set the scale's output range.
- [log.tickFormat](#) - get a formatter for displaying tick values.
- [log.ticks](#) - get representative values from the input domain.
- [log](#) - get the range value corresponding to a given domain value.
- [pow.clamp](#) - enable or disable clamping of the output range.
- [pow.copy](#) - create a new scale from an existing scale.
- [pow.domain](#) - get or set the scale's input domain.
- [pow.exponent](#) - get or set the exponent power.
- [pow.interpolate](#) - get or set the scale's output interpolator.
- [pow.invert](#) - get the domain value corresponding to a given range value.
- [pow.nice](#) - extend the scale domain to nice round numbers.
- [pow.rangeRound](#) - set the scale's output range, and enable rounding.
- [pow.range](#) - get or set the scale's output range.
- [pow.tickFormat](#) - get a formatter for displaying tick values.
- [pow.ticks](#) - get representative values from the input domain.
- [pow](#) - get the range value corresponding to a given domain value.
- [quantile.copy](#) - create a new scale from an existing scale.
- [quantile.domain](#) - get or set the scale's input domain (as discrete values).
- [quantile.invertExtent](#) - get the domain values for the specified range value.
- [quantile.quantiles](#) - get the scale's quantile bin thresholds.
- [quantile.range](#) - get or set the scale's output range (as discrete values).
- [quantile](#) - get the range value corresponding to a given domain value.
- [quantize.copy](#) - create a new scale from an existing scale.
- [quantize.domain](#) - get or set the scale's input domain.
- [quantize.invertExtent](#) - get the domain values for the specified range value.
- [quantize.range](#) - get or set the scale's output range (as discrete values).
- [quantize](#) - get the range value corresponding to a given domain value.
- [threshold.copy](#) - create a new scale from an existing scale.
- [threshold.domain](#) - get or set the scale's input domain.
- [threshold.invertExtent](#) - get the domain values for the specified range value.
- [threshold.range](#) - get or set the scale's output range (as discrete values).
- [threshold](#) - get the range value corresponding to a given domain value.

Ordinal

- [d3.scale.category10](#) - construct an ordinal scale with ten categorical colors.

- [d3.scale.category20b](#) - construct an ordinal scale with twenty categorical colors.
- [d3.scale.category20c](#) - construct an ordinal scale with twenty categorical colors.
- [d3.scale.category20](#) - construct an ordinal scale with twenty categorical colors.
- [d3.scale.ordinal](#) - construct an ordinal scale.
- [ordinal.copy](#) - create a new scale from an existing scale.
- [ordinal.domain](#) - get or set the scale's input domain.
- [ordinal.rangeBands](#) - divide a continuous output range for discrete bands.
- [ordinal.rangeBand](#) - get the discrete range band width.
- [ordinal.rangeExtent](#) - get the minimum and maximum values of the output range.
- [ordinal.rangePoints](#) - divide a continuous output range for discrete points.
- [ordinal.rangeRoundBands](#) - divide a continuous output range for discrete bands.
- [ordinal.rangeRoundPoints](#) - divide a continuous output range for discrete points.
- [ordinal.range](#) - get or set the scale's output range.
- [ordinal](#) - get the range value corresponding to a given domain value.

d3.svg.(SVG).

Shapes

- [arc.centroid](#) - compute the arc centroid.
- [arc.cornerRadius](#) - get or set the corner radius accessor.
- [arc.endAngle](#) - get or set the end angle accessor.
- [arc.innerRadius](#) - get or set the inner radius accessor.
- [arc.outerRadius](#) - get or set the outer radius accessor.
- [arc.padAngle](#) - get or set the pad angle accessor.
- [arc.padRadius](#) - get or set the pad radius accessor.
- [arc.startAngle](#) - get or set the start angle accessor.
- [arc](#) - generate a solid arc, as in a pie or donut chart.
- [area.angle](#) - get or set the *angle* accessors.
- [area.defined](#) - control whether the area is defined at a given point.
- [area.defined](#) - control whether the area is defined at a given point.
- [area.endAngle](#) - get or set the *angle* (topline) accessor.
- [area.innerRadius](#) - get or set the inner *radius* (baseline) accessor.
- [area.interpolate](#) - get or set the interpolation mode.
- [area.outerRadius](#) - get or set the outer *radius* (topline) accessor.
- [area.radius](#) - get or set the *radius* accessors.
- [area.startAngle](#) - get or set the *angle* (baseline) accessor.
- [area.tension](#) - get or set the cardinal spline tension.
- [area.x0](#) - get or set the *x0*-coordinate (baseline) accessor.
- [area.x1](#) - get or set the *x1*-coordinate (topline) accessor.
- [area.x](#) - get or set the *x*-coordinate accessors.
- [area.y0](#) - get or set the *y0*-coordinate (baseline) accessor.
- [area.y1](#) - get or set the *y1*-coordinate (topline) accessor.
- [area.y](#) - get or set the *y*-coordinate accessors.
- [area](#) - generate a piecewise linear area, as in an area chart.
- [area](#) - generate a piecewise linear area, as in a polar area chart.
- [chord.endAngle](#) - get or set the arc end angle accessor.
- [chord.radius](#) - get or set the arc radius accessor.
- [chord.source](#) - get or set the source arc accessor.
- [chord.startAngle](#) - get or set the arc start angle accessor.
- [chord.target](#) - get or set the target arc accessor.

- [chord](#) - generate a quadratic Bézier connecting two arcs, as in a chord diagram.
- [d3.svg.arc](#) - create a new arc generator.
- [d3.svg.area.radial](#) - create a new area generator.
- [d3.svg.area](#) - create a new area generator.
- [d3.svg.chord](#) - create a new chord generator.
- [d3.svg.diagonal.radial](#) - create a new diagonal generator.
- [d3.svg.diagonal](#) - create a new diagonal generator.
- [d3.svg.line.radial](#) - create a new radial line generator.
- [d3.svg.line](#) - create a new line generator.
- [d3.svg.symbolTypes](#) - the array of supported symbol types.
- [d3.svg.symbol](#) - create a new symbol generator.
- [diagonal.projection](#) - get or set an optional point transform.
- [diagonal.source](#) - get or set the source point accessor.
- [diagonal.target](#) - get or set the target point accessor.
- [diagonal](#) - generate a two-dimensional Bézier connector, as in a node-link diagram.
- [diagonal](#) - generate a two-dimensional Bézier connector, as in a node-link diagram.
- [line.angle](#) - get or set the *angle* accessor.
- [line.defined](#) - control whether the line is defined at a given point.
- [line.defined](#) - control whether the line is defined at a given point.
- [line.interpolate](#) - get or set the interpolation mode.
- [line.interpolate](#) - get or set the interpolation mode.
- [line.radius](#) - get or set the *radius* accessor.
- [line.tension](#) - get or set the cardinal spline tension.
- [line.tension](#) - get or set the cardinal spline tension.
- [line.x](#) - get or set the *x*-coordinate accessor.
- [line.y](#) - get or set the *y*-coordinate accessor.
- [line](#) - generate a piecewise linear curve, as in a line chart.
- [line](#) - generate a piecewise linear curve, as in a polar line chart.
- [symbol.size](#) - get or set the symbol size (in square pixels) accessor.
- [symbol.type](#) - get or set the symbol type accessor.
- [symbol](#) - generate categorical symbols, as in a scatterplot.

Axes

- [axis.innerTickSize](#) - specify the size of inner ticks.
- [axis.orient](#) - get or set the axis orientation.
- [axis.outerTickSize](#) - specify the size of outer ticks.
- [axis.scale](#) - get or set the axis scale.
- [axis.tickFormat](#) - override the tick formatting for labels.
- [axis.tickPadding](#) - specify padding between ticks and tick labels.
- [axis.tickSize](#) - specify the size of major, minor and end ticks.
- [axis.ticks](#) - control how ticks are generated for the axis.
- [axis.tickValues](#) - specify tick values explicitly.
- [axis](#) - creates or updates an axis for the given selection or transition.
- [d3.svg.axis](#) - create a new axis generator.

Controls

- [brush.clear](#) - reset the brush extent.
- [brush.empty](#) - whether or not the brush extent is empty.
- [brush.event](#) - dispatch brush events after setting the extent.
- [brush.extent](#) - the brush's extent in zero, one or two dimensions.

- [brush.on](#) - listeners for when the brush is moved.
- [brush.x](#) - the brush's x-scale, for horizontal brushing.
- [brush.y](#) - the brush's y-scale, for vertical brushing.
- [brush](#) - apply a brush to the given selection or transition.
- [d3.svg.brush](#) - click and drag to select one- or two-dimensional regions.

d3.time (Time)

Time Formatting

- [d3.time.format.iso](#) - the ISO 8601 UTC time formatter.
- [d3.time.format.multi](#) - create a new local multi-resolution time formatter.
- [d3.time.format.utc](#) - create a new UTC time formatter for a given specifier.
- [d3.time.format](#) - create a new local time formatter for a given specifier.
- [format.parse](#) - parse a string into a date.
- [format](#) - format a date into a string.

Time Scales

- [d3.time.scale](#) - construct a linear time scale.
- [scale.clamp](#) - enable or disable clamping of the output range.
- [scale.copy](#) - create a new scale from an existing scale.
- [scale.domain](#) - get or set the scale's input domain.
- [scale.interpolate](#) - get or set the scale's output interpolator.
- [scale.invert](#) - get the domain value corresponding to a given range value.
- [scale.nice](#) - extend the scale domain to nice round numbers.
- [scale.rangeRound](#) - set the scale's output range, and enable rounding.
- [scale.range](#) - get or set the scale's output range.
- [scale.tickFormat](#) - get a formatter for displaying tick values.
- [scale.ticks](#) - get representative values from the input domain.
- [scale](#) - get the range value corresponding to a given domain value.

Time Intervals

- [d3.time.dayOfYear](#) - computes the day number.
- [d3.time.days](#) - alias for day.range.
- [d3.time.day](#) - every day (12:00 AM).
- [d3.time.fridayOfYear](#) - computes the friday-based week number.
- [d3.time.fridays](#) - alias for friday.range.
- [d3.time.friday](#) - every Friday (e.g., February 5, 12:00 AM).
- [d3.time.hours](#) - alias for hour.range.
- [d3.time.hour](#) - every hour (e.g., 1:00 AM).
- [d3.time.interval](#) - a time interval in local time.
- [d3.time.minutes](#) - alias for minute.range.
- [d3.time.minute](#) - every minute (e.g., 1:02 AM).
- [d3.time.mondayOfYear](#) - computes the monday-based week number.
- [d3.time.mondays](#) - alias for monday.range.
- [d3.time.monday](#) - every Monday (e.g., February 5, 12:00 AM).
- [d3.time.months](#) - alias for month.range.
- [d3.time.month](#) - every month (e.g., February 1, 12:00 AM).
- [d3.time.saturdayOfYear](#) - computes the saturday-based week number.
- [d3.time.saturdays](#) - alias for saturday.range.
- [d3.time.saturday](#) - every Saturday (e.g., February 5, 12:00 AM).

- [d3.time.seconds](#) - alias for second.range.
- [d3.time.second](#) - every second (e.g., 1:02:03 AM).
- [d3.time.sundayOfYear](#) - computes the sunday-based week number.
- [d3.time.sundays](#) - alias for sunday.range.
- [d3.time.sunday](#) - every Sunday (e.g., February 5, 12:00 AM).
- [d3.time.thursdayOfYear](#) - computes the thursday-based week number.
- [d3.time.thursdays](#) - alias for thursday.range.
- [d3.time.thursday](#) - every Thursday (e.g., February 5, 12:00 AM).
- [d3.time.tuesdayOfYear](#) - computes the tuesday-based week number.
- [d3.time.tuesdays](#) - alias for tuesday.range.
- [d3.time.tuesday](#) - every Tuesday (e.g., February 5, 12:00 AM).
- [d3.time.wednesdayOfYear](#) - computes the wednesday-based week number.
- [d3.time.wednesdays](#) - alias for wednesday.range.
- [d3.time.wednesday](#) - every Wednesday (e.g., February 5, 12:00 AM).
- [d3.time.weekOfYear](#) - alias for sundayOfYear.
- [d3.time.weeks](#) - alias for sunday.range.
- [d3.time.week](#) - alias for sunday.
- [d3.time.years](#) - alias for year.range.
- [d3.time.year](#) - every year (e.g., January 1, 12:00 AM).
- [interval.ceil](#) - rounds up to the nearest interval.
- [interval.floor](#) - rounds down to the nearest interval.
- [interval.offset](#) - returns a date offset by some interval.
- [interval.range](#) - returns dates within the specified range.
- [interval.round](#) - rounds up or down to the nearest interval.
- [interval.utc](#) - returns the UTC-equivalent time interval.
- [interval](#) - alias for interval.floor.

d3.layout (Layouts)

Bundle

- [bundle](#) - apply Holten's *hierarchical bundling* algorithm to edges.
- [d3.layout.bundle](#) - construct a new default bundle layout.

Chord

- [chord.chords](#) - retrieve the computed chord angles.
- [chord.groups](#) - retrieve the computed group angles.
- [chord.matrix](#) - get or set the matrix data backing the layout.
- [chord.padding](#) - get or set the angular padding between chord segments.
- [chord.sortChords](#) - get or set the comparator function for chords (z-order).
- [chord.sortGroups](#) - get or set the comparator function for groups.
- [chord.sortSubgroups](#) - get or set the comparator function for subgroups.
- [d3.layout.chord](#) - produce a chord diagram from a matrix of relationships.

Cluster

- [cluster.children](#) - get or set the accessor function for child nodes.
- [cluster.links](#) - compute the parent-child links between tree nodes.
- [cluster.nodeSize](#) - specify a fixed size for each node.
- [cluster.nodes](#) - compute the cluster layout and return the array of nodes.
- [cluster.separation](#) - get or set the spacing function between neighboring nodes.
- [cluster.size](#) - get or set the layout size in x and y.

- [cluster.sort](#) - get or set the comparator function for sibling nodes.
- [cluster](#) - alias for cluster.nodes.
- [d3.layout.cluster](#) - cluster entities into a dendrogram.

Force

- [d3.layout.force](#) - position linked nodes using physical simulation.
- [force.alpha](#) - get or set the layout's cooling parameter.
- [force.chargeDistance](#) - get or set the maximum charge distance.
- [force.charge](#) - get or set the charge strength.
- [force.drag](#) - bind a behavior to nodes to allow interactive dragging.
- [force.friction](#) - get or set the friction coefficient.
- [force.gravity](#) - get or set the gravity strength.
- [force.linkDistance](#) - get or set the link distance.
- [force.linkStrength](#) - get or set the link strength.
- [force.links](#) - get or set the array of links between nodes.
- [force.nodes](#) - get or set the array of nodes to layout.
- [force.on](#) - listen to updates in the computed layout positions.
- [force.resume](#) - reheat the cooling parameter and restart simulation.
- [force.size](#) - get or set the layout size in x and y.
- [force.start](#) - start or restart the simulation when the nodes change.
- [force.stop](#) - immediately terminate the simulation.
- [force.theta](#) - get or set the accuracy of the charge interaction.
- [force.tick](#) - run the layout simulation one step.

Hierarchy

- [d3.layout.hierarchy](#) - derive a custom hierarchical layout implementation.
- [hierarchy.children](#) - get or set the accessor function for child nodes.
- [hierarchy.links](#) - compute the parent-child links between tree nodes.
- [hierarchy.nodes](#) - compute the layout and return the array of nodes.
- [hierarchy.revalue](#) - recompute the hierarchy values.
- [hierarchy.sort](#) - get or set the comparator function for sibling nodes.
- [hierarchy.value](#) - get or set the value accessor function.
- [hierarchy](#) - alias for hierarchy.nodes.

Histogram

- [d3.layout.histogram](#) - construct a new default histogram layout.
- [histogram.bins](#) - specify how values are organized into bins.
- [histogram.frequency](#) - compute the distribution as counts or probabilities.
- [histogram.range](#) - get or set the considered value range.
- [histogram.value](#) - get or set the value accessor function.
- [histogram](#) - compute the distribution of data using quantized bins.

Pack

- [d3.layout.pack](#) - produce a hierarchical layout using recursive circle-packing.
- [pack.children](#) - get or set the children accessor function.
- [pack.links](#) - compute the parent-child links between tree nodes.
- [pack.nodes](#) - compute the pack layout and return the array of nodes.
- [pack.padding](#) - specify the layout padding in (approximate) pixels.
- [pack.radius](#) - specify the node radius, rather than deriving it from value.
- [pack.size](#) - specify the layout size in x and y.

- [pack.sort](#) - control the order in which sibling nodes are traversed.
- [pack.value](#) - get or set the value accessor used to size circles.
- [pack](#) - alias for pack.nodes.

Partition

- [d3.layout.partition](#) - recursively partition a node tree into a sunburst or icicle.
- [partition.children](#) - get or set the children accessor function.
- [partition.links](#) - compute the parent-child links between tree nodes.
- [partition.nodes](#) - compute the partition layout and return the array of nodes.
- [partition.size](#) - specify the layout size in x and y.
- [partition.sort](#) - control the order in which sibling nodes are traversed.
- [partition.value](#) - get or set the value accessor used to size circles.
- [partition](#) - alias for partition.nodes.

Pie

- [d3.layout.pie](#) - construct a new default pie layout.
- [pie.endAngle](#) - get or set the overall end angle of the pie.
- [pie.padAngle](#) - get or set the pad angle of the pie.
- [pie.sort](#) - control the clockwise order of pie slices.
- [pie.startAngle](#) - get or set the overall start angle of the pie.
- [pie.value](#) - get or set the value accessor function.
- [pie](#) - compute the start and end angles for arcs in a pie or donut chart.

Stack

- [d3.layout.stack](#) - construct a new default stack layout.
- [stack.offset](#) - specify the overall baseline algorithm.
- [stack.order](#) - control the order in which series are stacked.
- [stack.out](#) - get or set the output function for storing the baseline.
- [stack.values](#) - get or set the values accessor function per series.
- [stack.x](#) - get or set the x-dimension accessor function.
- [stack.y](#) - get or set the y-dimension accessor function.
- [stack](#) - compute the baseline for each series in a stacked bar or area chart.

Tree

- [d3.layout.tree](#) - position a tree of nodes tidily.
- [tree.children](#) - get or set the children accessor function.
- [tree.links](#) - compute the parent-child links between tree nodes.
- [tree.nodeSize](#) - specify a fixed size for each node.
- [tree.nodes](#) - compute the tree layout and return the array of nodes.
- [tree.separation](#) - get or set the spacing function between neighboring nodes.
- [tree.size](#) - specify the layout size in x and y.
- [tree.sort](#) - control the order in which sibling nodes are traversed.
- [tree](#) - alias for tree.nodes.

Treemap

- [d3.layout.treemap](#) - use recursive spatial subdivision to display a tree of nodes.
- [treemap.children](#) - get or set the children accessor function.
- [treemap.links](#) - compute the parent-child links between tree nodes.
- [treemap.mode](#) - change the treemap layout algorithm.
- [treemap.nodes](#) - compute the treemap layout and return the array of nodes.

- [treemap.padding](#) - specify the padding between a parent and its children.
- [treemap.round](#) - enable or disable rounding to exact pixels.
- [treemap.size](#) - specify the layout size in x and y.
- [treemap.sort](#) - control the order in which sibling nodes are traversed.
- [treemap.sticky](#) - make the layout sticky for stable updates.
- [treemap.value](#) - get or set the value accessor used to size treemap cells.
- [treemap](#) - alias for treemap.nodes.

[d3.geo \(Geography\)](#)

[Paths](#)

- [circle.angle](#) - specify the angular radius in degrees.
- [circle.origin](#) - specify the origin in latitude and longitude.
- [circle.precision](#) - specify the precision of the piecewise circle.
- [circle](#) - generate a piecewise circle as a Polygon.
- [d3.geo.area](#) - compute the spherical area of a given feature.
- [d3.geo.bounds](#) - compute the latitude-longitude bounding box for a given feature.
- [d3.geo.centroid](#) - compute the spherical centroid of a given feature.
- [d3.geo.circle](#) - create a circle generator.
- [d3.geo.distance](#) - compute the great-arc distance between two points.
- [d3.geo.graticule](#) - create a graticule generator.
- [d3.geo.interpolate](#) - interpolate between two points along a great arc.
- [d3.geo.length](#) - compute the length of a line string or the perimeter of a polygon.
- [d3.geo.path](#) - create a new geographic path generator.
- [d3.geo.rotation](#) - create a rotation function for the specified angles $[\lambda, \phi, \gamma]$.
- [graticule.extent](#) - get or set the major & minor extents.
- [graticule.lines](#) - generate an array of LineStrings of meridians and parallels.
- [graticule.majorExtent](#) - get or set the major extent.
- [graticule.majorStep](#) - get or set the major step intervals.
- [graticule.minorExtent](#) - get or set the minor extent.
- [graticule.minorStep](#) - get or set the minor step intervals.
- [graticule.outline](#) - generate a Polygon of the graticule's extent.
- [graticule.precision](#) - get or set the latitudinal precision.
- [graticule.step](#) - get or set the major & minor step intervals.
- [graticule](#) - generate a MultiLineString of meridians and parallels.
- [path.area](#) - compute the projected area of a given feature.
- [path.bounds](#) - compute the projected bounds of a given feature.
- [path.centroid](#) - compute the projected centroid of a given feature.
- [path.context](#) - get or set the render context.
- [path.pointRadius](#) - get or set the radius to display point features.
- [path.projection](#) - get or set the geographic projection.
- [path](#) - project the specified feature and render it to the context.
- [rotation.invert](#) - inverse-rotate the given location around the sphere.
- [rotation](#) - rotate the given location around the sphere.

[Projections](#)

- [albers.parallels](#) - get or set the projection's two standard parallels.
- [d3.geo.albersUsa](#) - a composite Albers projection for the United States.
- [d3.geo.albers](#) - the Albers equal-area conic projection.
- [d3.geo.azimuthalEqualArea.raw](#) - the raw azimuthal equal-area projection.

- [d3.geo.azimuthalEqualArea](#) - the azimuthal equal-area projection.
- [d3.geo.azimuthalEquidistant.raw](#) - the azimuthal equidistant projection.
- [d3.geo.azimuthalEquidistant](#) - the azimuthal equidistant projection.
- [d3.geo.conicConformal.raw](#) - the raw conic conformal projection.
- [d3.geo.conicConformal](#) - the conic conformal projection.
- [d3.geo.conicEqualArea.raw](#) the raw conic equal-area (a.k.a. Albers) projection.
- [d3.geo.conicEqualArea](#) the conic equal-area (a.k.a. Albers) projection.
- [d3.geo.conicEquidistant.raw](#) - the raw conic equidistant projection.
- [d3.geo.conicEquidistant](#) - the conic equidistant projection.
- [d3.geo.equirectangular.raw](#) - the raw equirectangular (plate carrée) projection.
- [d3.geo.equirectangular](#) - the equirectangular (plate carrée) projection.
- [d3.geo.gnomonic.raw](#) - the raw gnomonic projection.
- [d3.geo.gnomonic](#) - the gnomonic projection.
- [d3.geo.mercator.raw](#) - the raw Mercator projection.
- [d3.geo.mercator](#) - the spherical Mercator projection.
- [d3.geo.orthographic.raw](#) - the raw azimuthal orthographic projection.
- [d3.geo.orthographic](#) - the azimuthal orthographic projection.
- [d3.geo.projectionMutator](#) - create a standard projection from a mutable raw projection.
- [d3.geo.projection](#) - create a standard projection from a raw projection.
- [d3.geo.stereographic.raw](#) - the raw azimuthal stereographic projection.
- [d3.geo.stereographic](#) - the azimuthal stereographic projection.
- [d3.geo.transverseMercator.raw](#) - the raw transverse Mercator projection.
- [projection.center](#) - get or set the projection's center location.
- [projection.clipAngle](#) - get or set the radius of the projection's clip circle.
- [projection.clipExtent](#) - get or set the projection's viewport clip extent, in pixels.
- [projection.invert](#) - invert the projection for the specified point.
- [projection.precision](#) - get or set the precision threshold for adaptive resampling.
- [projection.rotate](#) - get or set the projection's three-axis rotation.
- [projection.scale](#) - get or set the projection's scale factor.
- [projection.stream](#) - wrap the specified stream listener, projecting input geometry.
- [projection.translate](#) - get or set the projection's translation position.
- [projection](#) - project the specified location.

Streams

- [clipExtent.extent](#) - sets the clip extent.
- [d3.geo.clipExtent](#) - a stream transform that clips geometries to a given axis-aligned rectangle.
- [d3.geo.stream](#) - convert a GeoJSON object to a geometry stream.
- [d3.geo.transform](#) - transform streaming geometries.
- [stream.lineEnd](#) - indicate the end of a line or ring.
- [stream.lineStart](#) - indicate the start of a line or ring.
- [stream.point](#) - indicate an *x*, *y* (and optionally *z*) coordinate.
- [stream.polygonEnd](#) - indicate the end of a polygon.
- [stream.polygonStart](#) - indicate the start of a polygon.
- [stream.sphere](#) - indicate a sphere.
- [transform.stream](#) - wraps a given stream.

d3.geom (Geometry)

Voronoi

- [d3.geom.voronoi](#) - create a Voronoi layout with default accessors.

- [voronoi.clipExtent](#) - get or set the clip extent for the tessellation.
- [voronoi.links](#) - compute the Delaunay mesh as a network of links.
- [voronoi.triangles](#) - compute the Delaunay mesh as a triangular tessellation.
- [voronoi.x](#) - get or set the x-coordinate accessor for each point.
- [voronoi.y](#) - get or set the y-coordinate accessor for each point.
- [voronoi](#) - compute the Voronoi tessellation for the specified points.

Quadtree

- [d3.geom.quadtree](#) - constructs a quadtree for an array of points.
- [quadtree.add](#) - add a point to the quadtree.
- [quadtree.find](#) - find the closest point in the quadtree.
- [quadtree.visit](#) - recursively visit nodes in the quadtree.

Polygon

- [d3.geom.polygon](#) - create a polygon from the specified array of points.
- [polygon.area](#) - compute the counterclockwise area of this polygon.
- [polygon.centroid](#) - compute the area centroid of this polygon.
- [polygon.clip](#) - clip the specified polygon to this polygon.

Hull

- [d3.geom.hull](#) - create a convex hull layout with default accessors.
- [hull](#) - compute the convex hull for the given array of points.
- [hull.x](#) - get or set the x-coordinate accessor.
- [hull.y](#) - get or set the y-coordinate accessor.

d3.behavior (Behaviors)

Drag

- [d3.behavior.drag](#)
- [drag.on](#)
- [drag.origin](#)

Zoom

- [d3.behavior.zoom](#) - create a zoom behavior.
- [zoom.center](#) - an optional focal point for mousewheel zooming.
- [zoom.duration](#) - get or set the dblclick transition duration.
- [zoom.event](#) - dispatch zoom events after setting the scale or translate.
- [zoom.on](#) - listeners for when the scale or translate changes.
- [zoom.scaleExtent](#) - optional limits on the scale factor.
- [zoom.scale](#) - the current scale factor.
- [zoom.size](#) - the dimensions of the viewport.
- [zoom.translate](#) - the current translate offset.
- [zoom.x](#) - an optional scale whose domain is bound to the x extent of the viewport.
- [zoom.y](#) - an optional scale whose domain is bound to the y extent of the viewport.
- [zoom](#) - apply the zoom behavior to the selected elements.