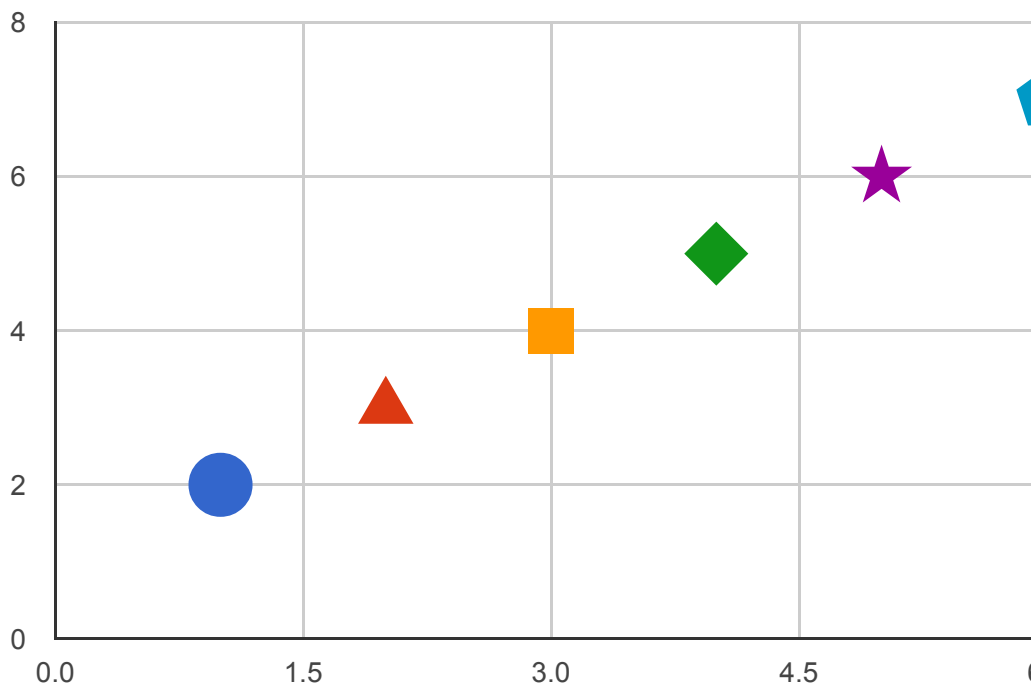
Customizing Points

Overview

In many Google Charts, data values are displayed at precise points. A line chart is just a set of these points connected by lines, and a scatter chart is nothing but points.

In all charts but the scatter chart, these points are zero-sized by default. You can control their size with the `pointSize` option, and their shape with the `pointShape` option.



Above, you can see a chart with six series, each with `pointSize` 30 but a different `pointShape`.

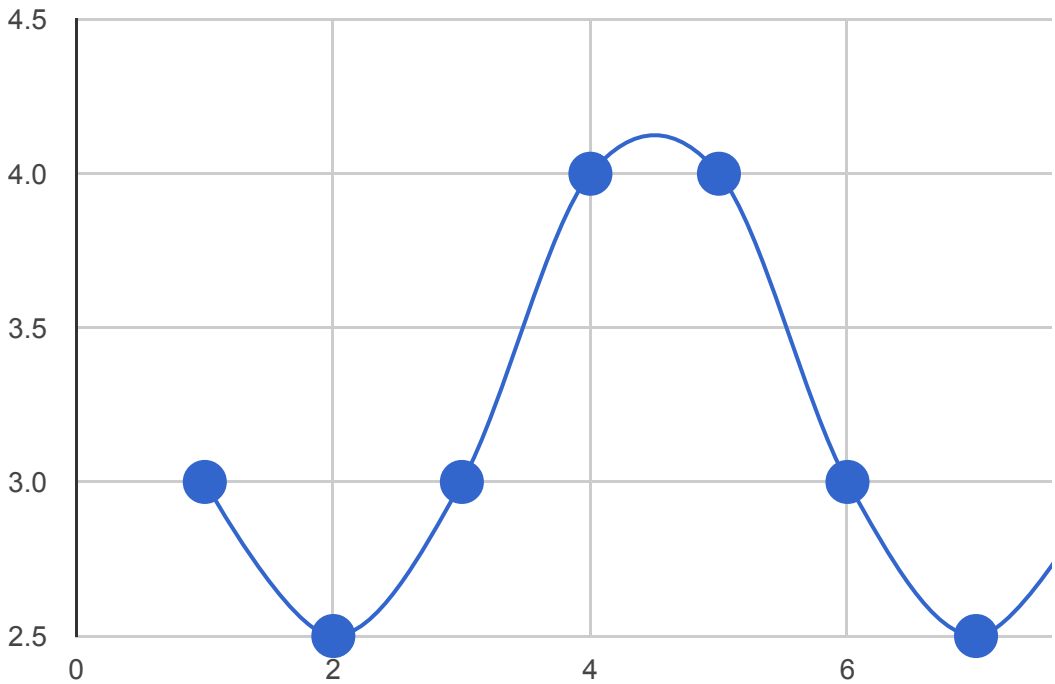
OPTIONS FULL HTML

```
var options = {
  legend: 'none',
  hAxis: { minValue: 0, maxValue: 7 },
```

```
        pointSize: 30,
        series: {
              0: { pointShape: 'circle' },
              1: { pointShape: 'triangle' },
              2: { pointShape: 'square' },
              3: { pointShape: 'diamond' },
              4: { pointShape: 'star' },
              5: { pointShape: 'polygon' }
          }
      };
```

Some simple examples

Unlike the chart in the previous section, most charts have just one series. Here's an example of a line chart with 20pt circular points:

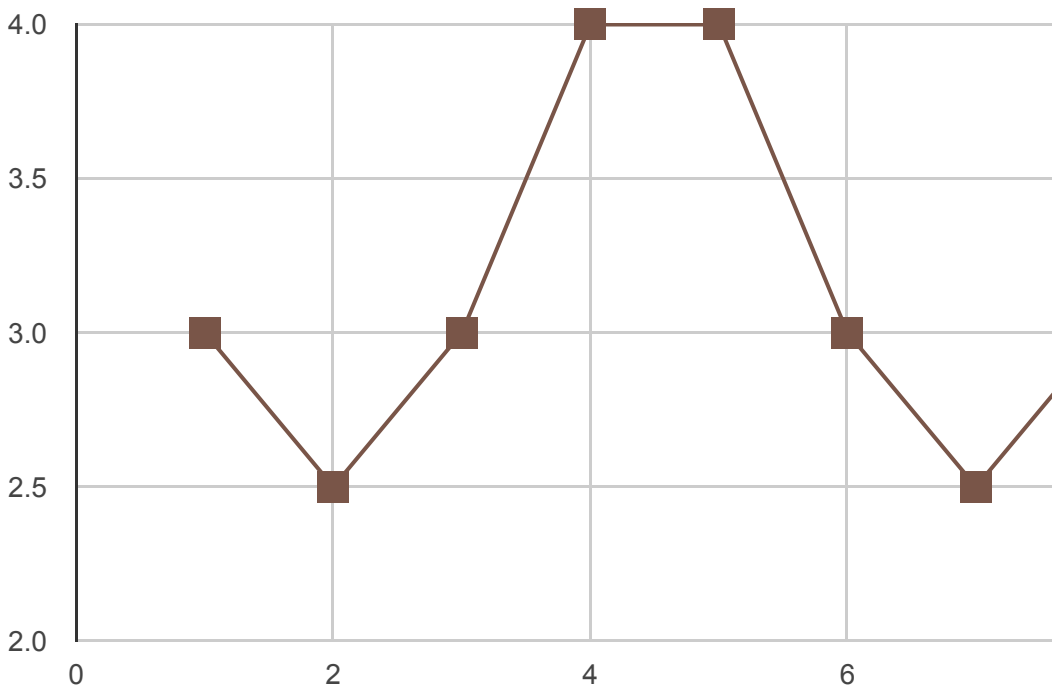


Since the default `pointShape` is the circle, we can leave it out of the options:

OPTIONS FULL HTML

```
      var options = {
        legend: 'none',
        hAxis: { minValue: 0, maxValue: 9 },
        curveType: 'function',
        pointSize: 20,
      };
```

You can change it from "circle" to another shape by setting `pointShape` to "triangle", "square", "diamond", "star", or "polygon":

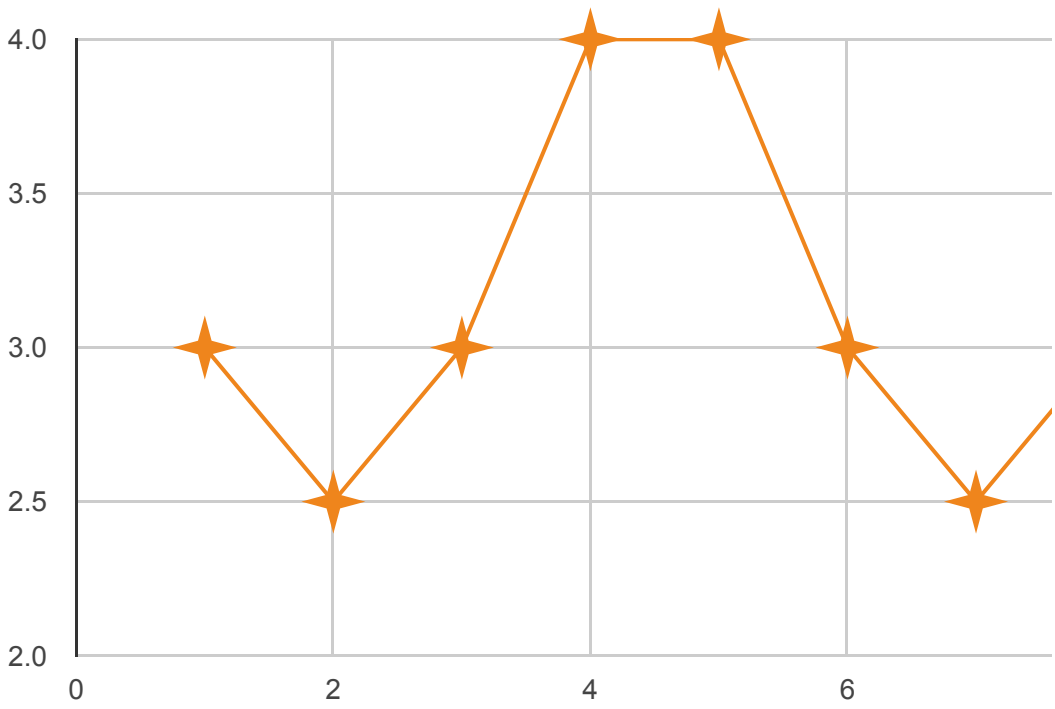


OPTIONS FULL HTML

```
      var options = {
        legend: 'none',
        hAxis: { minValue: 0, maxValue: 9 },
        colors: ['#795548'],
        pointSize: 20,
```

```
    pointShape: 'square'
};
```

The 'star' and 'polygon' shapes let you customize the number of sides, both defaulting to five. Some four-sided stars:



OPTIONS FULL HTML

```
var options = {
  legend: 'none',
  hAxis: { minValue: 0, maxValue: 9 },
  colors: ['#EF851C'],
  pointSize: 30,
  pointShape: { type: 'star', sides: 4 }
};
```

Stars can be further customized with the `dent` option, which controls how concave the star is. When the dent is close to zero, the star will be starfish-like; as the dent approaches one, it'll bloat past an equilateral polygon.

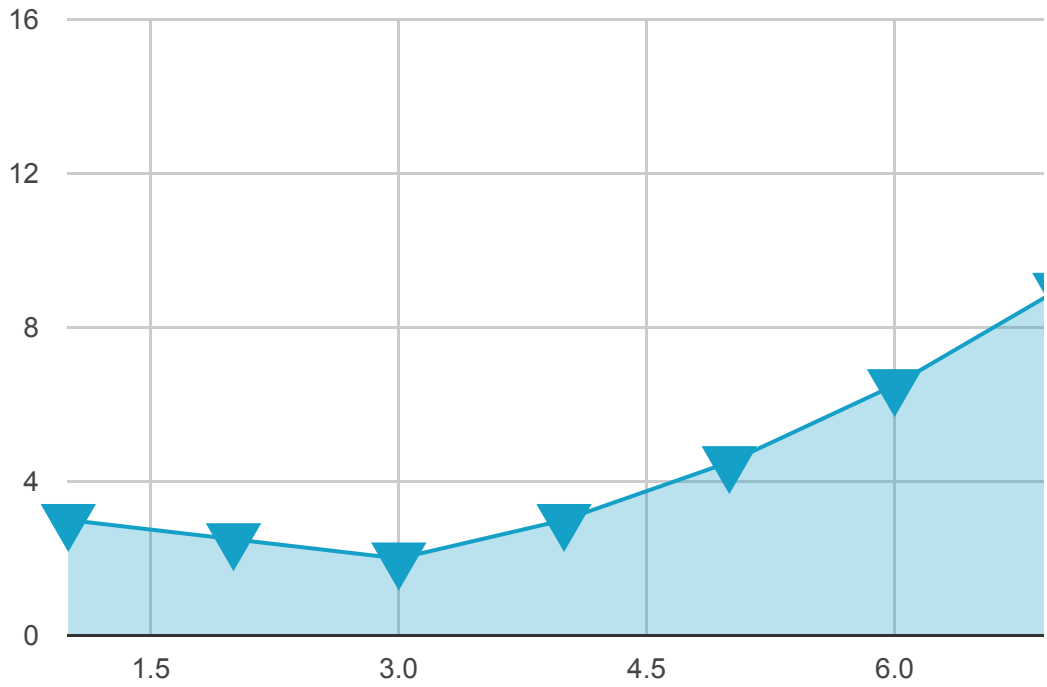
Here are dents ranging from 0.05 to 0.8 for five sided stars:

OPTIONS FULL HTML

```
var options = {
    legend: 'none',
    hAxis: { textPosition: 'none' },
    vAxis: { textPosition: 'none', gridlines: { count: 0 },
             baselineColor: 'white' },
    colors: ['#E94D20', '#ECA403', '#63A74A',
             '#15A0C8', '#4151A3', '#703593', '#981B48'],
    pointSize: 20,
    annotations: { stemColor: 'white', textStyle: { fontSize: 16 } },
    series: {
        0: { pointShape: { type: 'star', sides: 5, dent: 0.05 } },
        1: { pointShape: { type: 'star', sides: 5, dent: 0.1 } },
        2: { pointShape: { type: 'star', sides: 5, dent: 0.2 } },
        3: { pointShape: { type: 'star', sides: 5 } },
        4: { pointShape: { type: 'star', sides: 5, dent: 0.5 } },
        5: { pointShape: { type: 'star', sides: 5, dent: 0.7 } },
        6: { pointShape: { type: 'star', sides: 5, dent: 0.8 } },
    }
};
```

Rotations

All point shapes can be rotated with the `rotation` option, specified in degrees. For instance, we can make our triangles point downward in the following area chart by rotating them 180 degrees:



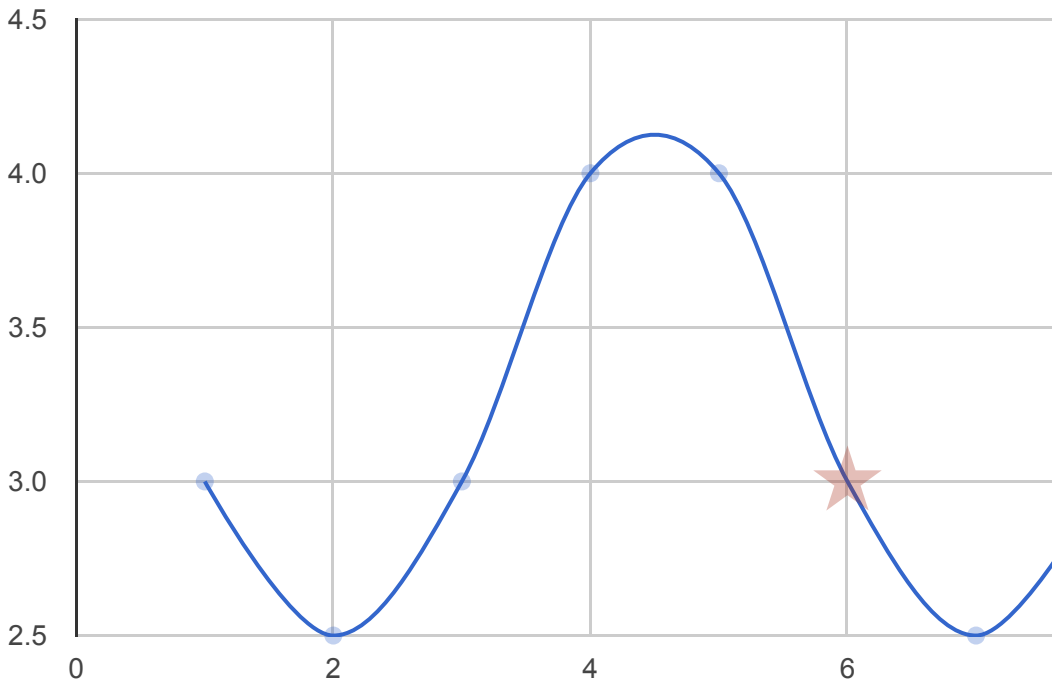
OPTIONS FULL HTML

```
var options = {
  legend: 'none',
  colors: ['#15A0C8'],
  pointSize: 30,
  pointShape: { type: 'triangle', rotation: 180 }
};
```

Customizing individual points

By default, the styles applied to a point apply to all points in the series. If you want to change the appearance of a particular data point, you can do so by styling it.

In the following chart, we increase the size of one of the points, lower the opacity to 0.3, and change the shape and color:



CODE IT YOURSELF ON JSFIDDLE

```
<html>
  <head>
    <script type="text/javascript" src="https://www.gstatic.com/charts/loader
    <script type="text/javascript">
      google.charts.load('current', {'packages':['corechart']});
      google.charts.setOnLoadCallback(drawChart);

      function drawChart() {
        var data = google.visualization.arrayToDataTable
            ([['X', 'Y', {'type': 'string', 'role': 'style'}],
              [1, 3, null],
              [2, 2.5, null],
              [3, 3, null],
              [4, 4, null],
              [5, 4, null],
              [6, 3, 'point { size: 18; shape-type: star; fill-color: #a52714
              [7, 2.5, null],
              [8, 3, null]
        ]);
```

```
        var options = {
          legend: 'none',
          hAxis: { minValue: 0, maxValue: 9 },
          curveType: 'function',
          pointSize: 7,
          dataOpacity: 0.3
        };

        var chart = new google.visualization.LineChart(document.getElementById
        chart.draw(data, options);
    }
    </script>
  </head>
  <body>
    <div id="chart_div" style="width: 900px; height: 500px;"></div>
  </body>
</html>
```

The following style customizations are available:

- `fill-color` (Specified as a hex string.)
- `shape-dent`
- `shape-rotation`
- `shape-sides`
- `shape-type`
- `stroke-color` (Specified as a hex string.)
- `stroke-width` (Specified as a hex string.)
- `size`
- `visible` (Whether the point is visible or not.)

The opacity is controlled not through a style, but with the `dataOpacity` option.

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