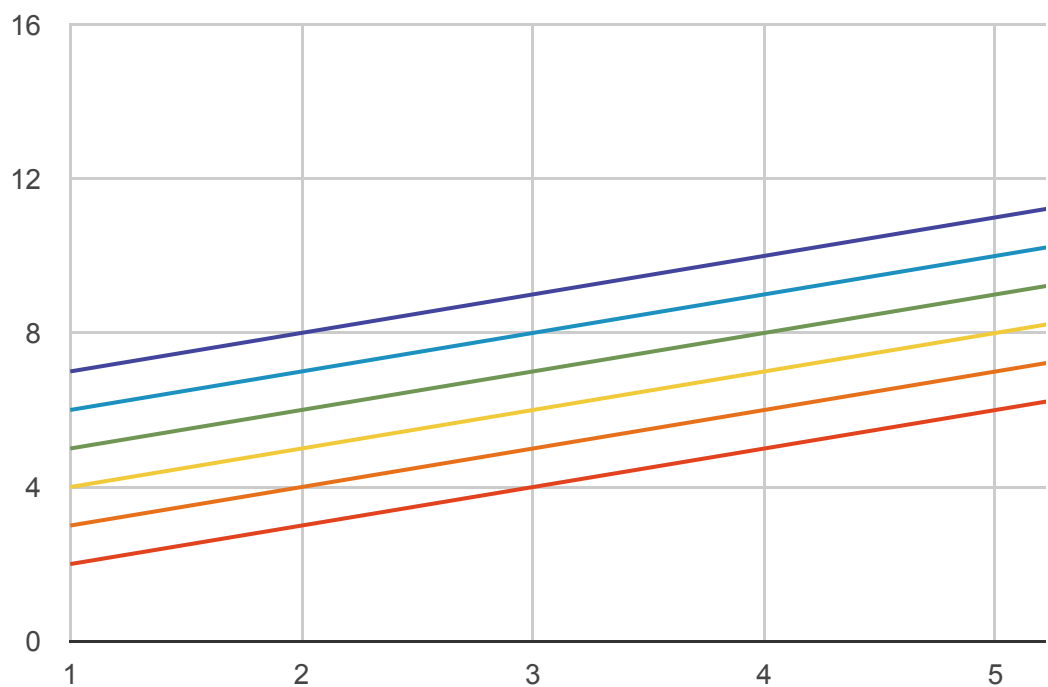# Customizing Lines

Overview

Some Google Charts, such as the Area, Line, and Combo Charts, have lines connecting data points. You can customize the color, thickness, and dashing of the lines using the techniques on this page.

Changing the Color

You can change the color of the lines that connect data points in Google Charts in two subtly different ways: with the `colors` option to change the chart palette, or with the `series` option to specify the color for particular series.

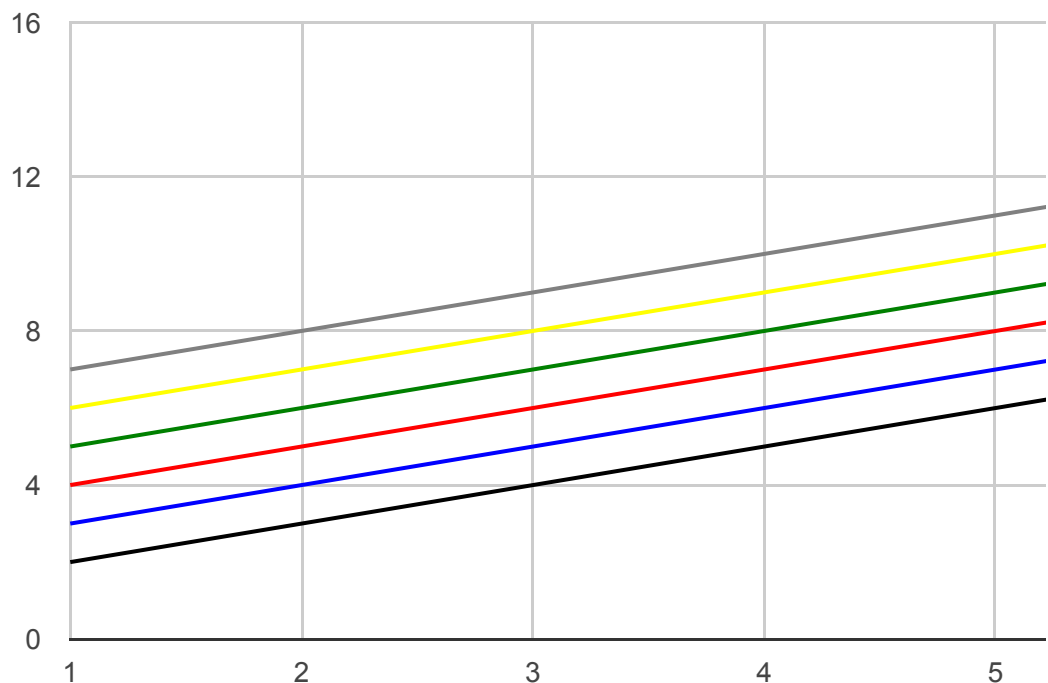In the following chart, we set the color of each series explicitly.

```
var options = {
  legend: 'none',
  series: {
    0: { color: '#e2431e' },
    1: { color: '#e7711b' },
    2: { color: '#f1ca3a' },
    3: { color: '#6f9654' },
    4: { color: '#1c91c0' },
    5: { color: '#43459d' },
  }
};
```

Above, the colors are specified by hex value (e.g., `'#e2431e'`, or `'#f00'` for a saturated red) but can also be specified by English name. The following example illustrates this, and also shows how to control colors by fixing the chart palette with the `colors` option, as opposed to setting the colors of individual series. One difference is that if you fix the palette and there are more series than colors in your palette, the colors will be reused: if your palette consists of red and blue, half the series will be red and the other half blue.
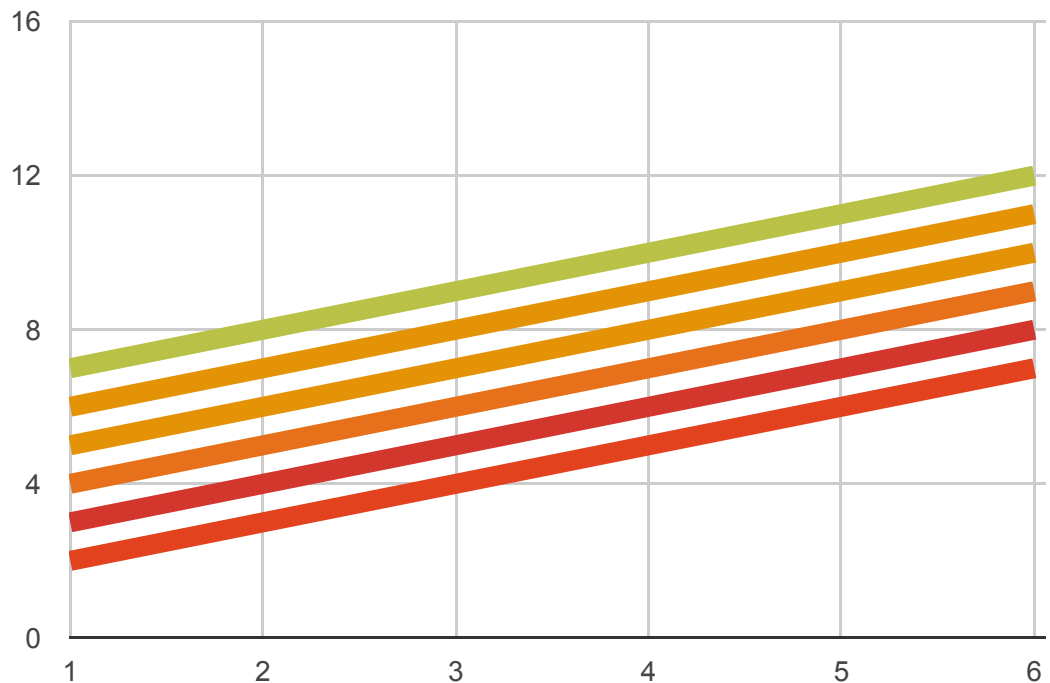
```
var options = {
  legend: 'none',
  colors: ['black', 'blue', 'red', 'green', 'yellow', 'gray']
};
```

Changing the Thickness

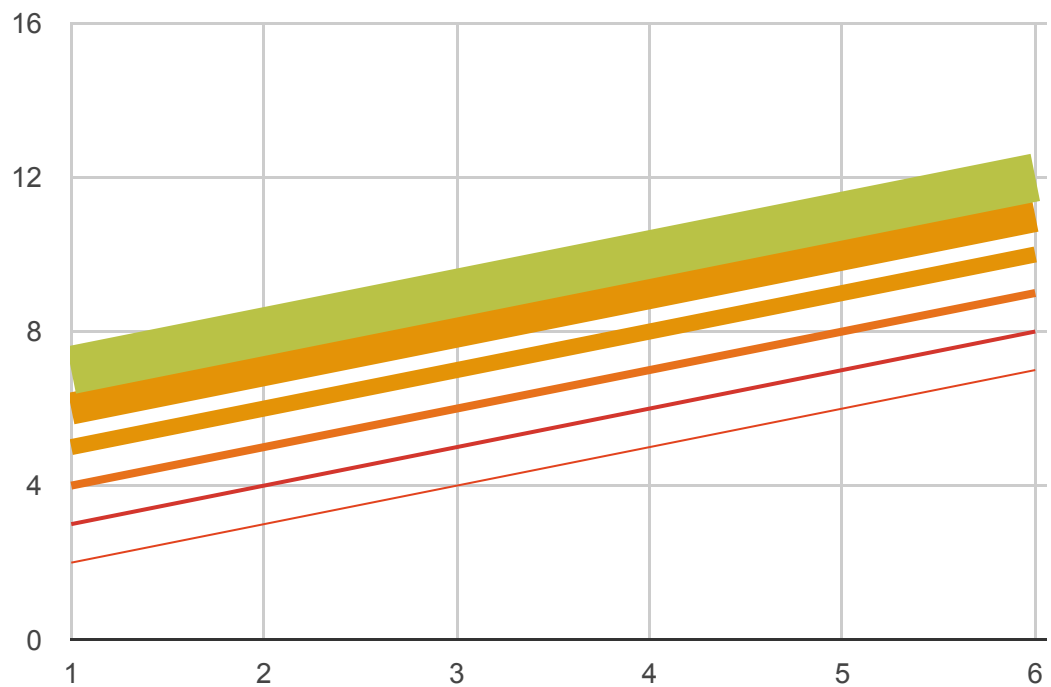You can control the thickness of lines with the `lineWidth` option:

```
var options = {
  legend: 'none',
  hAxis: { maxValue: 7 },
  vAxis: { maxValue: 13 },
  lineWidth: 10,
```

```
        colors: ['#e2431e', '#d3362d', '#e7711b',
                 '#e49307', '#e49307', '#b9c246']
      };
```

To control the line width of a series, use the `series` option:

```
      var options = {
        legend: 'none',
        hAxis: { maxValue: 7 },
        vAxis: { maxValue: 13 },
        series: {
          0: { lineWidth: 1 },
          1: { lineWidth: 2 },
          2: { lineWidth: 4 },
          3: { lineWidth: 8 },
          4: { lineWidth: 16 },
          5: { lineWidth: 24 }
        },
        colors: ['#e2431e', '#d3362d', '#e7711b',
```
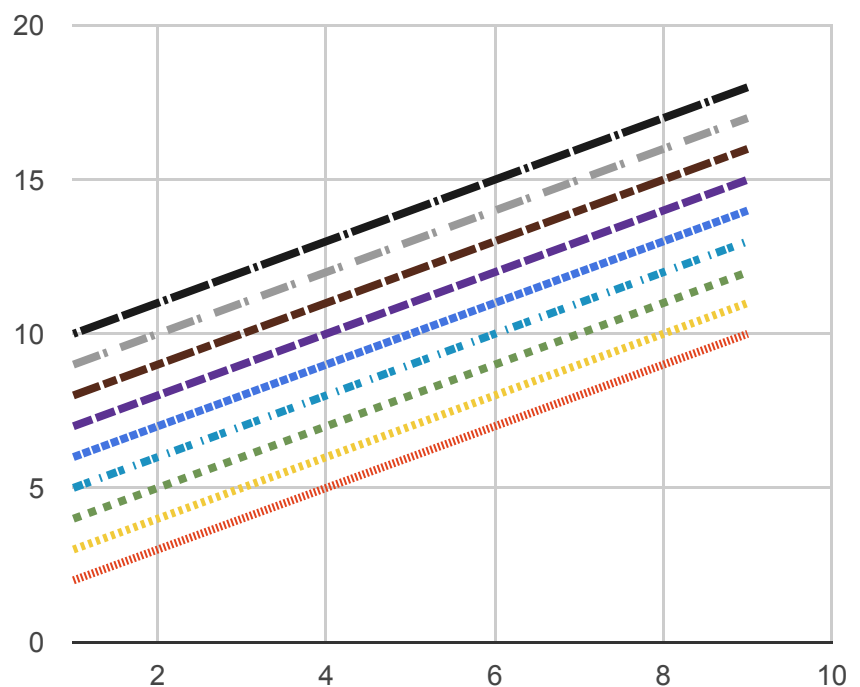
```
                    '#e49307', '#e49307', '#b9c246']
        };
```

Dashed Lines

Many styles of dashed lines are possible via the `lineDashStyle` option, which takes an array of numbers. The first number indicates the length of a dash, and the second indicates the gap after it. If there is a third number, that's the length of the next dash, and a fourth number, if present, is the length of the next gap.

When the chart is drawn, these lengths are repeated, so `[4, 4]` means a succession of 4-length dashes and 4-length gaps. `[5, 1, 3]` means a 5-length dash, a 1-length gap, a 3-length dash, a 5-length gap, and so on. Some examples:

```
        var options = {
          hAxis: { maxValue: 10 },
```

```
    vAxis: { maxValue: 18 },
    chartArea: { width: 380 },
    lineWidth: 4,
    series: {
      0: { lineDashStyle: [1, 1] },
      1: { lineDashStyle: [2, 2] },
      2: { lineDashStyle: [4, 4] },
      3: { lineDashStyle: [5, 1, 3] },
      4: { lineDashStyle: [4, 1] },
      5: { lineDashStyle: [10, 2] },
      6: { lineDashStyle: [14, 2, 7, 2] },
      7: { lineDashStyle: [14, 2, 2, 7] },
      8: { lineDashStyle: [2, 2, 20, 2, 20, 2] }
    },
    colors: ['#e2431e', '#f1ca3a', '#6f9654', '#1c91c0',
             '#4374e0', '#5c3292', '#572a1a', '#999999', '#1a1a1a'],
  };
```

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