

# Draw line between starting point and Ending point in semi doughnut chart in chart js

Asked 7 years, 11 months ago   Modified 7 years, 11 months ago

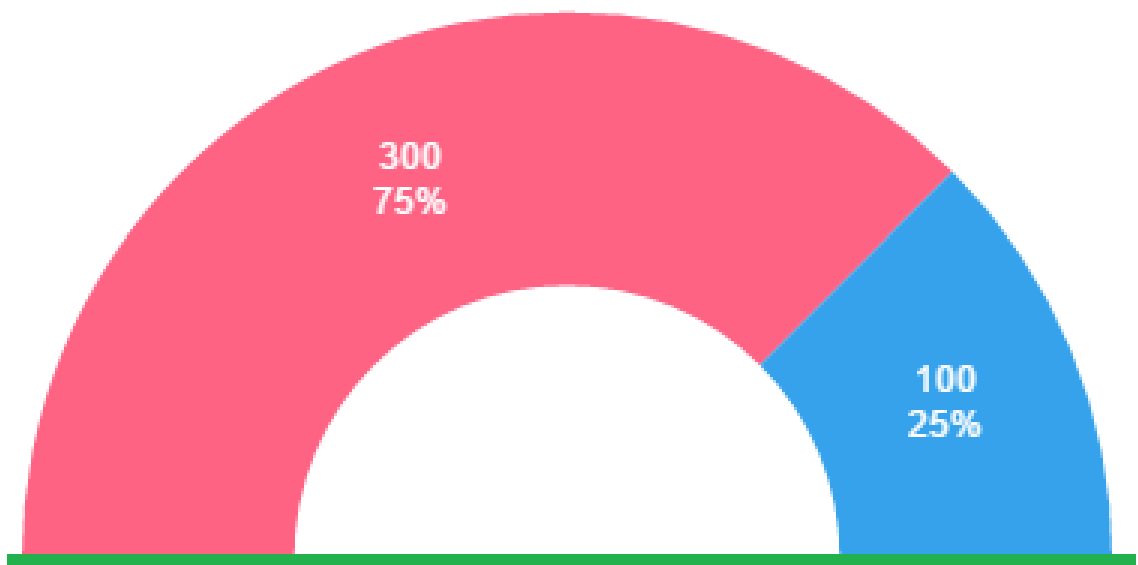
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0



I drawn a semi doughnut chart using chart js. But i want to draw a straight line bottom of the chart (Green colored) like



How can i draw this line??

javascript

jquery

angularjs

charts

chart.js

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asked Jan 4, 2017 at 10:31

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Arunkumar Vasudevan

5,310 ● 4 ● 29 ● 41

I think 15cm scale will do this. what about your thought? :p .  
really I don't know. if you show your code then we will decide  
– [Ramesh Rajendran](#) Jan 4, 2017 at 10:54 ✎

1 @Ramesh Tendentious... ;p – [Mistalis](#) Jan 4, 2017 at 10:55

## 1 Answer

Sorted by:

Highest score (default)



4

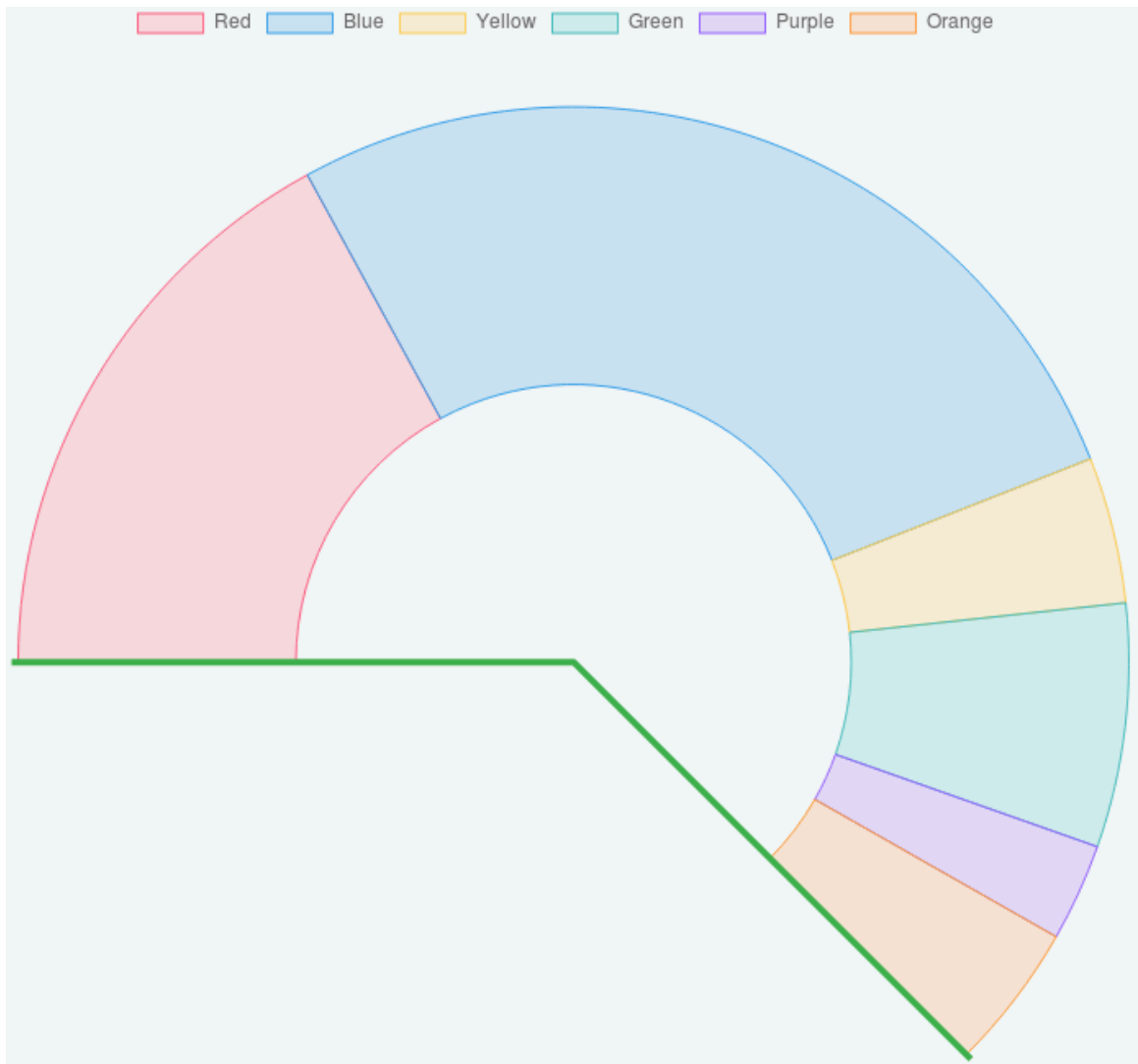
This is not war movie material. This is not justice-gone-wrong documentary material. But it should give you a thrill or two.



+50



This is a plugin that works as follows. It draws The Thin Green Line along the start side of the first slice of the doughnut up to the center, and then continues along the end side of the last slice of the doughnut. It does so, in order to be able to use whatever doughnut circumference one would wish, e.g. 5/8 of the circle:



Some (8 pixels) padding has been used, so that The Thin Green Line will have some room to extend a bit (4 pixels) beyond the slice. [A working fiddle is here](#). The code (commented enough) is also available below.

```
var theThinGreenLinePlugin = {
  afterDatasetsDraw: function(chartInstance, easing)
    // The context, needed for drawing.
    var ctx = chartInstance.chart.ctx;
    // The first (and, assuming, only) dataset.
    var dataset = chartInstance.data.datasets[0];
    // The dataset's data length.
    var datasetDataLength = dataset.data.length;
    // The model of the first slice.
    var firstDatumModel = dataset._meta[Object.keys(
    [0]).data[0]._model;
    // The model of the last slice.
```

```

    var lastDatumModel = dataset._meta[Object.keys(d
[0]].data[datasetDataLength - 1]._model;
    // The Thin Green Line's radius (measured from t
    // Add a few pixels to make the line extend a bi
radius.
    var lineRadius = firstDatumModel.outerRadius + 4
    // The first point of The Thin Green Line (for t
    var firstSliceStartX = firstDatumModel.x + lineR
Math.cos(firstDatumModel.startAngle);
    var firstSliceStartY = firstDatumModel.y + lineR
Math.sin(firstDatumModel.startAngle);
    // The last point of The Thin Green Line (for th
    var lastSliceEndX = lastDatumModel.x + lineRadiu
Math.cos(lastDatumModel.endAngle);
    var lastSliceEndY = lastDatumModel.y + lineRadiu
Math.sin(lastDatumModel.endAngle);

    // Save the context, in order to mess with it. W
ctx.save();

    // Green
ctx.strokeStyle = '#3db24b';
    // Thin
ctx.lineWidth = 4.0;
ctx.beginPath();
ctx.moveTo(firstSliceStartX, firstSliceStartY);
    // Go through the center, so that other doughnut
make sense.
ctx.lineTo(firstDatumModel.x, firstDatumModel.y)
ctx.lineTo(lastSliceEndX, lastSliceEndY);
ctx.stroke();

    // Restore the context.
ctx.restore();
}
};

Chart.pluginService.register(theThinGreenLinePlugin)

var ctx = document.getElementById("myChart");

var myChart = new Chart(ctx, {
    type: 'doughnut',
    data: {

```

```

labels: ["Red", "Blue", "Yellow", "Green", "Purp
datasets: [{
  data: [12, 19, 3, 5, 2, 3],
  backgroundColor: [
    'rgba(255, 99, 132, 0.2)',
    'rgba(54, 162, 235, 0.2)',
    'rgba(255, 206, 86, 0.2)',
    'rgba(75, 192, 192, 0.2)',
    'rgba(153, 102, 255, 0.2)',
    'rgba(255, 159, 64, 0.2)'
  ],
  borderColor: [
    'rgba(255,99,132,1)',
    'rgba(54, 162, 235, 1)',
    'rgba(255, 206, 86, 1)',
    'rgba(75, 192, 192, 1)',
    'rgba(153, 102, 255, 1)',
    'rgba(255, 159, 64, 1)'
  ],
  borderWidth: 1
}]
},
options: {
  circumference: 1.0 * Math.PI,
  rotation: 1.0 * Math.PI,
  layout: {
    padding: 8
  }
}
});

```

```

<script
src="https://cdnjs.cloudflare.com/ajax/libs/Chart.js
</script>
<canvas id="myChart" width="400" height="400"></canv

```



Run code snippet

[Expand snippet](#)

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answered Jan 6, 2017 at 17:46

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xnakos

10.2k ● 6 ● 28 ● 33

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if possible please answer this question too

[stackoverflow.com/questions/41541561/...](https://stackoverflow.com/questions/41541561/...)

– Arunkumar Vasudevan Jan 9, 2017 at 5:32

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