d3 javascript display multiple charts on the same page

I am trying to display two charts, one bar and one line, one the same simple html page. Both charts display properly when displayed in different html files, but when I put them together they break.

Per the advice from this answer on creating multiple divs I created two div objects to hold my graphs and named them differently.

```
<!--Create svg elements to hold d3 object -->
    <div id="Chart1"></div>

    <div id="Chart2"></div>
```

Attaching to the first div

```
// append the svg obgect to the body of the page
// appends a 'group' element to 'svg'
// moves the 'group' element to the top left margin
var svg = d3.select("#Chart2").append("svg")
        .attr("width", width + margin.left + margin.right)
        .attr("height", height + margin.top + margin.bottom)
        .append("g")
        .attr("transform",
        "translate(" + margin.left + "," + margin.top + ")");
```

Attaching to the second div

```
var BarChart = d3.select("#Chart1").append("svg")
            .attr("width", width + margin.left + margin.right)
            .attr("height", height + margin.top + margin.bottom)
            .append("g")
            .attr("transform", "translate(" + margin.left + "," + margin.top     + ")");
```

However it only shows the bar chart and the axis for the line chart. The line for the chart is not showing and I do not see any output on the console to indicate errors. Program Output

The full code is here

```
    <html>
        <body>

        <!--Create svg elements to hold d3 object -->
        <div id="Chart1"></div>

        <div id="Chart2"></div>

<script>

            // set the dimensions and margins of the graph
            var margin = {top: 50, right: 20, bottom: 80, left: 120},
                width = 960 - margin.left - margin.right,
                height = 900 - margin.top - margin.bottom;

            // parse the date / time
            var parseTime = d3.timeParse("%Y");

            // set the ranges
            var x = d3.scaleTime().range([0, width]);
            var y = d3.scaleLinear().range([height, 0]);

            // define the line
            var valueline = d3.line()
                .x(function(d) { return x(d.year); })
                .y(function(d) { return y(d.sum); });

            // append the svg obgect to the body of the page
            // appends a 'group' element to 'svg'
            // moves the 'group' element to the top left margin
            var svg = d3.select("#Chart2").append("svg")
                .attr("width", width + margin.left + margin.right)
                .attr("height", height + margin.top + margin.bottom)
                .append("g")
                .attr("transform",
                      "translate(" + margin.left + "," + margin.top + ")");

            // Get the data
            d3.csv("data/YearContributionSum.csv", function(error, data2) {
                if (error) throw error;

                // format the data
                data2.forEach(function(d) {
                    d.year = parseTime(d.year);
                    d.sum = +d.sum;
                    });

                // Scale the range of the data
                x.domain(d3.extent(data2, function(d) { return d.year; }));
                y.domain([0, d3.max(data2, function(d) { return d.sum; })]);

                // Add the valueline path.
                svg.append("path")
```

```
            // Add the X Axis
            svg.append("g")
              .attr("transform", "translate(0," + height + ")")
              .call(d3.axisBottom(x));


            // text label for the x axis
            svg.append("text")
              .attr("transform",
                    "translate(" + (width/2) + " ," +
                                   (height + margin.top + 20) + ")")
              .style("text-anchor", "middle")
              .text("Year");

            // Add the Y Axis
            svg.append("g")
              .call(d3.axisLeft(y));

              // text label for the y axis
            svg.append("text")
              .attr("transform", "rotate(-90)")
              .attr("y", 0 - margin.left)
              .attr("x",0 - (height / 2))
              .attr("dy", "1em")
              .style("text-anchor", "middle")
              .text("Sum of Contributions");

        });

    </script>
    <script>

        var margin = {top: 20, right: 30, bottom: 100, left: 80},
            width = 1500 - margin.left - margin.right,
            height = 800 - margin.top - margin.bottom;

        var x = d3.scaleBand()
            .rangeRound([0, width], .1);
        var y = d3.scaleLinear()
            .range([height, 0]);

        var xAxis = d3.axisBottom(x);
        var yAxis = d3.axisLeft(y);

        var BarChart = d3.select("#Chart1").append("svg")
            .attr("width", width + margin.left + margin.right)
            .attr("height", height + margin.top + margin.bottom)
            .append("g")
            .attr("transform", "translate(" + margin.left + "," + margin.top + ")");

        d3.csv("data/PurposeContributionSum.csv", type, function(error, data) {
          if (error) throw error;
            data.sort(function(a, b){ return b.sum - a.sum;});
            x.domain(data.map(function(d) { return d.purpose; }));
            y.domain([0, d3.max(data, function(d) { return d.sum; })]);

            BarChart.append("g")
                .attr("class", "x axis")
                .attr("transform", "translate(0," + height + ")")
                .call(xAxis)
                .selectAll("text")
                .attr("y", 0)
                .attr("x", 9)
                .attr("dy", ".35em")
                .attr("transform", "rotate(90)")
                .style("text-anchor", "start");

            BarChart.append("g")
                .attr("class", "y axis")
                .call(yAxis);

            BarChart.selectAll(".bar")
                .data(data)
                .enter().append("rect")
                .attr("class", "bar")
                .attr("x", function(d) { return x(d.purpose); })
                .attr("y", function(d) { return y(d.sum); })
                .attr("height", function(d) { return height - y(d.sum); })
                .attr("width", x.bandwidth());
        });

        function type(d) {
            d.sum = +d.sum; // coerce to number
            return d;
        }

    </script>
  </body>
<\html>
```

javascript html d3.js

asked Dec 11 at 20:04

Miranda Smith
1 1

Renamed x and y for one. The line shows up but the x axis is cutting through the middle of the graph – Miranda Smith Dec 11 at 22:15

we need more info about the data you are using, I think the issue must be at the time you try to create the line path. Is it possible to have a look to the data you are using? – torresomar Dec 11 at 22:44

Could you append the path to the g element rather than the svg? You'll need to create a variable to for that, like `plot` , then append the line to the plot (adjusted for margins) rather than the svg (not adjusted for margins). – Ryan Morton Dec 11 at 22:51

1 Answer

The line chart may be having some issues at render time, your code seems to work given a correct input for the line chart, here is a working JSbin.

```
const contributionSum = [ // Had to mock this
    { year: '1990', sum: 1000 },
    { year: '1991', sum: 1090 },
    { year: '1992', sum: 900 },
    { year: '1993', sum: 1300 },
    { year: '1994', sum: 1250 },
    { year: '1995', sum: 1150 }];
// Format data
const formatContributions = contributionSum.map(v => {
    return {
        year: parseTime(v.year),
        sum: +v.sum
    }
});
// Scale the range of the data
x.domain(d3.extent(formatContributions, d => d.year));
y.domain([0, d3.max(formatContributions, d => d.sum)]);
```

I think the issue comes from the input you are providing to the line chart, I also had to create some additional variables to keep things in order at the Bar Chart render:

```
var xBar = d3.scaleBand()
    .rangeRound([0, width], .1);
var yBar = d3.scaleLinear()
    .range([height, 0]);

var xBarAxis = d3.axisBottom(xBar);
var yBarAxis = d3.axisLeft(yBar);
```

answered Dec 11 at 23:28

torresomar
1,484 2 11 27

Answer Your Question