

# Recharts won't automatically calculate YAxis ticks

Asked 1 year, 10 months ago · Active 22 days ago · Viewed 2k times



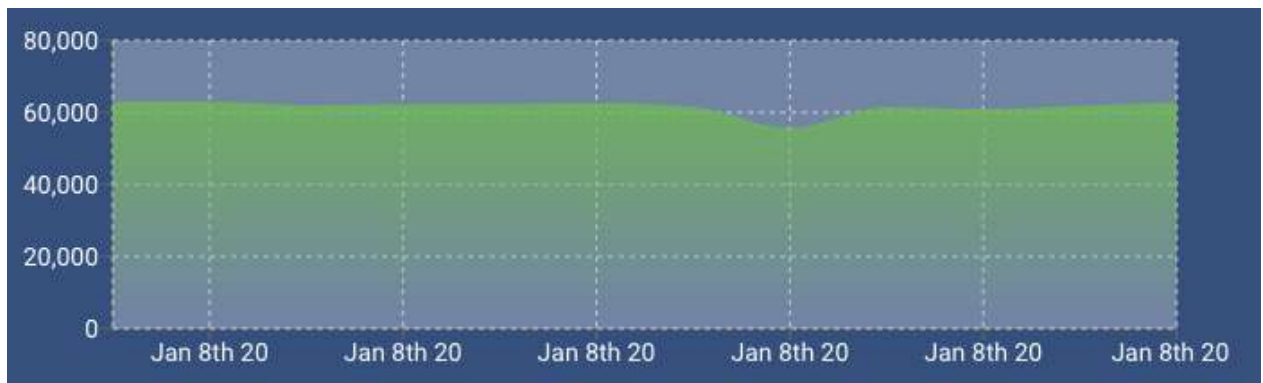
2



I'm trying to add a chart using `recharts` with the latest exchange rates of some currencies. Data is shown correctly, but the chart always starts at 0 and goes to a bit above the max value.

The chart is correct, however it doesn't need to start at 0, because doing this, it is almost a line.

Here is the picture of the chart:



I'd like that `recharts` could calculate automatically the ticks, so it would begin a little bit below the minimum value from the data and finish a little bit above the maximum value.

Here is my code:

```
import React, { useEffect, useState } from "react";
import { StyledCurrencyChart } from "../styles";
import {
  AreaChart,
  XAxis,
  YAxis,
  CartesianGrid,
  Tooltip,
  Area,
  ResponsiveContainer
} from "recharts";
import useExchangeRateProvider from "../../hooks/useExchangeRateProvider";
import api from "../../services/api";
import theme from "../../styles/customMuiTheme";
import moment from "moment";

function Chart({ data }) {
  return (
    <ResponsiveContainer width="100%" height={200}>
      <AreaChart
        width="100%"
        height={250}
        data={data}
        margin={{ top: 10, right: 30, left: 0, bottom: 0 }}
      >
        <defs>
          <linearGradient id="colorUv" x1="0" y1="0" x2="0" y2="1">
            <stop
              offset="5%"
              stopColor={theme.palette.secondary.main}
            />
          </linearGradient>
        </defs>
      </AreaChart>
    </ResponsiveContainer>
  );
}
```

```

        stopOpacity={0.8}
      />
      <stop
        offset="95%"
        stopColor={theme.palette.secondary.main}
        stopOpacity={0}
      />
    </linearGradient>
  </defs>
  <XAxis
    dataKey="date"
    tickFormatter={formatDate}
    style={{ fill: "ffffff" }}
  />
  <YAxis tickFormatter={formatRate} style={{ fill: "ffffff" }} />
  <CartesianGrid
    strokeDasharray="3 3"
    fill="rgba(255, 255, 255, 0.3)"
  />
  <Tooltip />
  <Area
    type="monotone"
    dataKey="rate"
    stroke={theme.palette.secondary.main}
    fillOpacity={1}
    fill="url(#colorUv)"
  />
</AreaChart>
</ResponsiveContainer>
);
}

// function to format date
function formatDate(tickItem) {
  return moment(tickItem).format("MMM Do YY");
}

// function to format rate
function formatRate(tickItem) {
  return parseFloat(tickItem).toLocaleString("en-US");
}

export default function CurrencyChart() {
  // selected country
  const exchangeRateProvider = useExchangeRateProvider();
  const country = exchangeRateProvider.state.exchangeRateProvider.country;

  // state
  const [values, setValues] = useState({
    loading: true,
    error: false,
    data: {}
  });

  // update chart on country change
  useEffect(() => {
    async function updateChart() {
      try {
        const { data } = await api.get(
          `/public/rates/history/${country}`
        );
        setValues({ loading: false, error: false, data });
      } catch (e) {
        setValues({ loading: false, error: true, data: {} });
      }
    }
    updateChart();
  }, [country]);
}

```

```
return (  
  <StyledCurrencyChart>  
    <Chart data={values.data} />  
  </StyledCurrencyChart>  
);  
}
```

How can I achieve it? I tried messing around with `interval` and `ticks` props under the `<YAxis>`, but I couldn't make it work.

Thanks in advance

[javascript](#) [reactjs](#) [recharts](#)

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asked Jan 8 '20 at 14:04



[Otavio Bonder](#)

**1,265** 2 7 23

## 2 Answers

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Use the `yAxis domain` prop:

4

```
<YAxis type="number" domain={[0, 1000]}/> // set to whatever you want [yMin, yMax]
```



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answered Jan 8 '20 at 14:09



[Travis James](#)

**1,688** 5 18



Domain was the prop that I needed to configure. Thanks! – [Otavio Bonder](#) Jan 8 '20 at 14:24

No problem! Nice looking chart btw! – [Travis James](#) Jan 8 '20 at 14:30



For calculating automatically you can use something like these

0

```
<YAxis type="number" domain={['dataMin', 'dataMax']} />  
<YAxis type="number" domain={[0, 'dataMax']} />  
<YAxis type="number" domain={['auto', 'auto']} />
```



Please make sure to use integer numbers for the values, If you use a string as a value for YAxis it can not recognize the max value correctly.

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answered Oct 18 at 8:53



[iranijm](#)

**63** 9

