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Design Choices

First choice

The bar chart takes precipitation data from a whole year. The first challenge was sizing the amount of data down to just 12 months. This choice was made, due to the fact that a chart with 365 or 366 bars, will be hard to read. Neighbouring Bars will become hard to distinguish from each other, if the height is roughly the same.

Second choice

The second challenge was adding the axes with labels, without them it will be hard to draw any conclusions from the data. Luckily, the axis method in automatically adds labels. As I passed a JSON with the following structure:

```
[
    {“month”:  “Jan”,  “value”: x},
    {“month”:  “Feb”,  “value”: y},
    …,
    {“month”:  “Dec”,  “value”: z}
]
```

the method automatically added months and values to the axes.

Third choice

Thirdly, a description about the axis was missing. Appending a text attribute to the axes with a 90 degree rotation for the y-axis solved this.

Fourth choice

The last functional addition was user feedback, changing the colors on mouseover and showing additional information in a nice layout assured the user could easily read the chart.