`barchart`: Easy Bar Chart in LaTeX

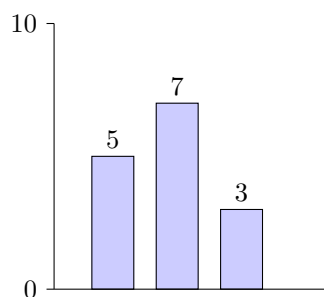## Version 0.1.0

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1   Introduction

`barchart` is a LaTeX package for creating simple and easy to use bar-chart. The package is heavily inspired by `bchart` by Tobias Kuhn. `barchart` provides an easy way to create vertical barcharts using Tikz.

2   Charts

`barchart` comes with a variety of customization options for both the overall chart and for each individual bar. A simple chart can be done like this:

```
\begin{barchart}
    \barc{5}
    \barc{7}
    \barc{3}
\end{barchart}
```
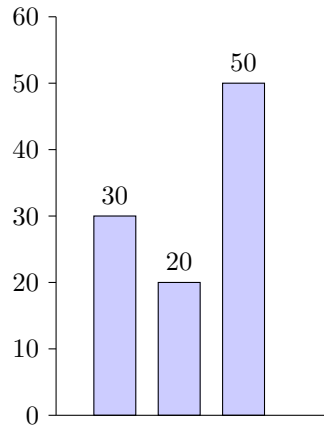

The only arguments that are mandatory is the bar value. The charts can be changed using a few simple options such as `min`, `max` and `step`.

```
\begin{barchart}[min = 0, max = 60, step = 10, height=0.25em]
    \barc{30}
    \barc{20}
    \barc{50}
\end{barchart}
```


`height` is used to set the height of the whole chart. Omitting a height on charts with large `max` values will make the chart enormous.

3   Bars

Each bar can be customized to your liking. This can be done using `color`, `width` and `plain`. `color` changes the color of each bar like:

```
\begin{barchart}[step = 2]
    \barc[color=yellow!60]{5}
    \barc[color=orange!60]{7}
    \barc[color=cyan!60]{3}
\end{barchart}
```
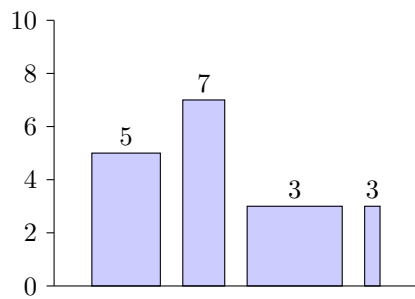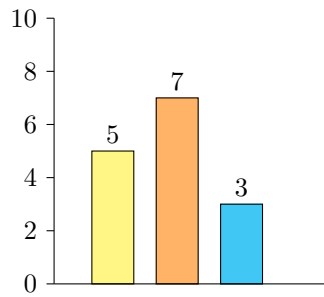
`width` changes the width of each bar:

```
\begin{barchart}[step = 2]
    \barc[width=40pt]{5}
    \barc[width=30pt]{7}
    \barc[width=50pt]{3}
    \barc[width=20pt]{3}
\end{barchart}
```
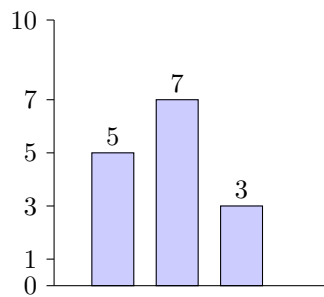
Using less than `20pt` is not recommended. Instead of using pre-defined step as the examples have shown so far, `steps` can be used.
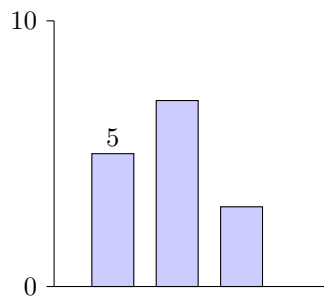
```
\begin{barchart}[steps = {1,3,5,7,10}]
    \barc{5}
    \barc{7}
    \barc{3}
\end{barchart}
```

`plain` is a boolean which can either be `true` or `false` and removes the label on the bar.

```
\begin{barchart}
    \barc{5}
    \barc[plain=true]{7}
    \barc[plain=true]{3}
\end{barchart}
```

4 Skips

5 Labels

6 Scaling

7 Known Issues