



progressbar

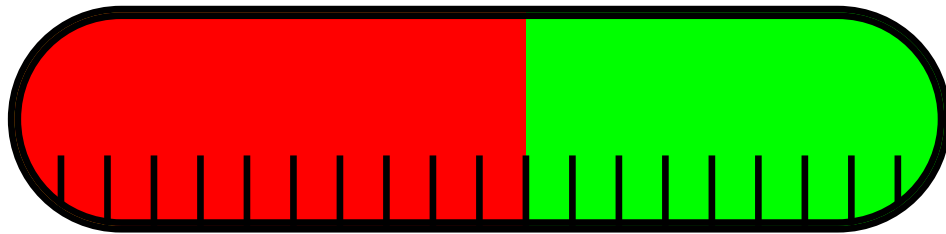
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Abstract

This package allows you to easily visualize shares of total amounts in the form of a bar. So basically you can convert a number like 0.735 to  using the command `\progressbar{0.735}`.

Of course also a lot of customizations are possible (like this: .



```
\progressbar[width=textwidth, heighta=3cm, filledcolor=
  red, emptycolor=green, borderwidth=5pt, tickwidth
  =2.5pt, roundnessr=0.5, subdivisions=20]{0.55}
```

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2.2 `\progressbarchange`

`\progressbarchange{}` In principle, the command `\progressbar{<number>}` uses the options specified with `\usepackage[<options>]{progressbar}` or the default options (if an option was not specified). As described in the previous section (2.1), you can override these options with `\progressbar[<options>]{<number>}`. However, if you want to change the settings for *all* following progressbar, you can use the command

```
\progressbarchange{<options>}
```

So basically

```
\progressbar{0.3}\\
\progressbar[roundnessr=0.5,ticksheight=1,tickwidth=1.5pt
]{0.4}\\
\progressbar[roundnessr=0.5,ticksheight=1,tickwidth=1.5pt
]{0.5}\\
\progressbar[roundnessr=0.5,ticksheight=1,tickwidth=1.5pt
]{0.6}
```

gives you the same as

```
\progressbar{0.3}\\
\progressbarchange{roundnessr=0.5,ticksheight=1,tickwidth=1.5
pt}
\progressbar{0.4}\\
\progressbar{0.5}\\
\progressbar{0.6}
```

However, keep in mind that in the second case the options are changed globally. Therefore, all following progressbars will keep the changed design (as long as you don't call `\progressbarchange{<options>}` with other options again). (You can find an explanation of all options in the section 3.)

3 Options

3.1 Global and local options

You can set global options when you load the `progressbar` with `\usepackage[options]{progressbar}` and with the command `\progressbarchange{<options>}`. These options affect all following calls of the commands `\progressbar{<number>}` and `\progressbar[<options>]{<number>}`.

However, you can override global options with local options specified with `\progressbar[<options>]{<number>}`.

3.2 Options, their defaults and how to change them

All listed options can be used globally and locally.

You will notice that some of the options are available with the prefix `r` (standing for relative) as well as with the prefix `a` (standing for absolute). I would recommend

you to always use those options with the prefix `r`, as using absolute values might not interact too well with the rest of your documents settings. But as long as you know what you are doing, it's up to you.

`heighttr` `default=1`

The progressbars height as a fraction of the `textheight`¹.

```
\progressbar[heighttr=1]{0.1}A progressbar that has the same
  height as the text\\
\progressbar[heighttr=0.5]{0.9}A progressbar that has half the
  height
```



A progressbar that has the same height as the text

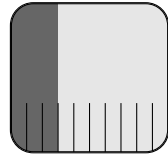


A progressbar that has half the height

`heighta` `default=unused`

With this option you can define the progressbars height absolutely.

```
\progressbar[heighta=2cm]{0.3} A progressbar that has the
  height 2~cm\\
\progressbar[heighta=10pt]{0.7} A progressbar that has the
  height 10~pt\\
\progressbar[heighta=\heightof{a} + 0.8pt]{0.42} A progressbar
  whose upper border starts at the same height as the letter
  "a"
```



A progressbar that has the height 2 cm



A progressbar that has the height 10 pt



A progressbar whose upper border starts at the same height as the letter "a"²

`roundnessr` `default=0.15`

`progressbar` allows rounded corners. With this option you can set them as a fraction of the progressbars height. You would not want to use numbers higher than 0.5.

```
\progressbar[roundnessr=0.25]{0.8} More rounder corners than
  the default\\
\progressbar[roundnessr=0.5]{0.5} In fact no more corners --
  complete roundness
```



More rounder corners than the default



In fact no more corners – complete roundness

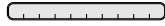

`roundnessa` `default=unused`

You can also define the corners radius as absolute values.

```
\progressbar[roundnessa=2pt]{0} Rounded corners radius 2~pt\\
\progressbar[roundnessa=0cm]{1} No rounded corners
```

¹I used the capital letter "T" as a reference for the `textheight`

²The `\heightof` command and the possibility of adding is provided by the package `calc`



 Rounded corners radius 2 pt
 No rounded corners

width default=6em
 The width of the progressbar.

```

\progressbar[width=5cm]{0.123} Width: 5~cm\\
\progressbar[width=20em]{0.785} Width: 20~em

```



 Width: 5 cm
 Width: 20 em

borderwidth default=0.8pt
 The linewidth of the progressbars border.

```

\progressbar[borderwidth=2pt]{0.6} Borderwidth: 2~pt\\
\progressbar[borderwidth=0.025em]{0.3} Borderwidth: 0.025~em

```



 Borderwidth: 2 pt
 Borderwidth: 0.025 em

subdivisions default=10
 As you may have noticed, (by default) the progressbar also has ticks. Those ticks splits the progressbar in multiple subdivisions. You can define the number of subdivisions with `subdivisions=<number>`. Therefore the number of ticks is `<number> - 1`.

```

\progressbar[subdivisions=3]{0.666667} 3 subdivisions and 2
    ticks\\
\progressbar[subdivisions=15]{0.466667} 15 subdivisions and 14
    ticks

```



 3 subdivisions and 2 ticks
 15 subdivisions and 14 ticks

tickwidth default=0.4pt
 The linewidth of the ticks.

```

\progressbar[tickwidth=1mm]{0.55} Tickwidth: 1~mm\\
\progressbar[tickwidth=0.1pt]{0.4} Tickwidth: 0.1~pt

```



 Tickwidth: 1 mm
 Tickwidth: 0.1 pt

ticksheight default=0.33
 The height of the ticks as a fraction of the total progressbars height.

```

\progressbar[ticksheight=0.1]{0.22} Ticksheight: 10 ~% of the
    total height\\
\progressbar[ticksheight=1]{0.88} Ticks are end-to-end

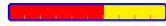
```

 Ticksheight: 10 % of the total height
 Ticks are end-to-end

linecolor default=black
tickscolor default=black
emptycolor default=black!10
filledcolor default=black!60

These options should be self-explaining. Just use `xcolor-color-definitions` (use color names or the syntax `<color-name>!<number between 0 and 100>`) for brighter colors).

```
\progressbar[linecolor=blue,tickcolor=orange,emptycolor=
yellow,filledcolor=red]{0.6}
```



4 Acknowledgment

A big shoutout to the pros from <http://www.mrunix.de/> (it's german). They helped me a lot and made `progressbar` possible.

5 Contact

If you have any question concerning `progressbar` or if you miss a feature, please write me a mail: mails4me@gmx.at.