tikz-cookingsymbols – v2.0

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1 Prolog

1.1 Licence and Requirements

tikz-cookingsymbols loads the package tikz[→CTAN] with the libraries calc[→CTAN], topaths[→CTAN] and bending[→CTAN]. Furthermore the package calc[→CTAN] is loaded.

1.2 Motivation

This package was written for my own recipe book. I did not want to use cookingsymbols[→CTAN] any more, but use symbols based on the more modern tikz[→CTAN]-package.

Furthermore the symbols are using the font size as their height.

1.3 Some words about TEX-engines

This package was tested with LuaLaTeX, but there should not be any issues if pdfLaTeX or XeLaTeX is used.

2 Changes from version 1

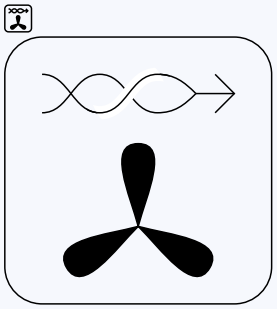
2.1 Problems of v1.0

2.1.1 Houston, we have a problem – An issue with knots-library

For drawing the \AirFryer-Symbol the knots[→CTAN]-library is used. The issue could be seen if and only if the symbol is not enough scaled. The following example shows the issue. In the

default size, there is no gap between crossing lines. In the scaled version (here 10 times), the needed gap is present. The output is here magnified for better viewing. Moreover you can see the color issue with the `knots`-library.

```
\AirFryer\par
\AirFryer[scale=10]
```



I tried to make it work in the unscaled version, but could not do it. This problem was solved by user quark67. We will look closer at this in section 2.2.

2.1.2 Adapting to actual font size

The original version did not adapt to the actual font size. This means, that the symbols had the same size where it did not matter if there where any command like `\large` or `\small` or so. This problem was also solved by quark67.

2.2 Needed adjustments

To corrrect the described issues in section 2.1 some code had to be rewritten. This was done by quark67 and solved both of the issues described in section 2.1.1 and section 2.1.2.

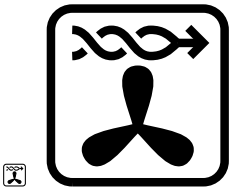
For solving the font size issue the code was rewritten, that the font size is grabbed with

```
\AtBeginDocument{
        \begingroup
        \normalsize
        \pgfmathparse{\f@size / 1pt} % Conversion to numerical value (ex: 10)
        \xdef\tikzCS@basefontsize{\pgfmathresult}
        \endgroup
}
```

The usage of `\AtBeginDocument` should be known to possibly prevent any interference.

For solving the issue with `knots`→CTAN-library first some more effort was necessary. But due to other issues the `knots`-library was completely discarded and the `bending`-library is used. Since the code was rewritten, there are only two options left, scale and color (see section 3.3).

Yet, the `\AirFryer` command gives this output in default and scaled version:



In version 1, the commands defined in this package could take any `tikz`→CTAN option that is sent to the drawing command. If you need more than scale and color, please let me know.

3 Defined commands

3.1 General aspects

This package defines two sets of commands for drawing the symbols. One set in English an one set in German. Three commands are used in both languages, because there names are the same.

Additionally their are *-versions of the commands. We will see the difference in section 3.2.

All of the commands are of the form

`\commandname*[`⟨*options*⟩`]`

where `commandname` has to be exchanged with a concrete symbol (see section 3.4) and the ⟨*options*⟩ are described in section 3.3.

3.2 Difference of *-version

The height of the symbols is set to the height of letters and depends on the font size. Compare the following examples:

```
see\TopHeat\ and try\TopHeat*
```

see and try

As we can see the *-version uses the font size above the baseline and the *-version adds the depth that is below the baseline.

3.3 Optional argument

The optional arguments are passed to the underlying `\tikz`-command. In this way you could e. g. change the color of the symbol.

With the changes described in section 2.2 only two keys are left for the optional argument:

`/tikzCScmd/scale=`⟨*factor*⟩ (default 1)

Scale the symbol with an ⟨*factor*⟩.

`/tikzCScmd/color=`⟨*color*⟩ (default black)

Change the color of the symbol to ⟨*color*⟩.

For both keys some examples are given:

```
\TopBottomHeat[color=red]
```

```
\TopBottomHeat\par
\TopBottomHeat[scale=2]
```

And some examples for the adaption to font size:

```
Text\TopBottomHeat\TopBottomHeat*\par
{\tiny Text\TopBottomHeat\TopBottomHeat*}\par
{\Large Text\TopBottomHeat\TopBottomHeat*}\par
```

Text
Text
Text

3.4 Overview of all commands

In the following table all commands are listed.

English command	German command	output (default size)	output (starred and `Large` size)
`\TopBottomHeat`	`\OberUnterHitze`		
`\TopHeat`	`\OberHitze`		
`\BottomHeat`	`\UnterHitze`		
`\ConvectionOven`	`\Umluft`		
`\ConvectionOvenAlt`	`\UmluftAlt`		
`\Grill`			
`\ConvectionOvenGrill`	`\UmluftGrill`		
`\AirFryer`			
`\Pizza`			
`\Microwave`	`\Microwelle`		

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