

# The tikzsymbols package\*

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## Abstract

Some symbols created using tikz.  
For differences between the releases see section 2.  
English is (still) not my native language so there (still) might be some errors<sup>1</sup>. ☺.

## Contents

<b>1</b>	<b>Introduction</b>	<b>2</b>
<b>2</b>	<b>Important changes</b>	<b>2</b>
<b>3</b>	<b>Options</b>	<b>2</b>
3.1	Load-time Options . . . . .	3
3.1.1	marvosym (true/false) . . . . .	3
3.1.2	usebox (true/false) . . . . .	3
3.1.3	prefix (<string>) . . . . .	3
3.2	Preamble Options . . . . .	4
3.2.1	final (true/false) . . . . .	4
3.2.2	draft (true/false) . . . . .	4
3.2.3	tree (true/false/on/off) . . . . .	5
3.2.4	after-symbol (<string or command>) . . . . .	5
<b>4</b>	<b>Symbols</b>	<b>5</b>
4.1	cooking-symbols 🍰 . . . . .	6
4.2	Emoticons ☺ . . . . .	7
4.2.1	“normal” Emoticons 😊 . . . . .	7
4.2.2	“3D” Emoticons 🍻 . . . . .	8
4.3	other Symbols 🍷 . . . . .	9
4.4	Trees 🌳 . . . . .	10

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\*This document corresponds to tikzsymbols v4.01, dated 2016/12/26.

<sup>1</sup>They are – of course – on purpose.

<b>5</b>	<b>Known errors &amp; Problems</b>	<b>11</b>
<b>6</b>	<b>Nobody is perfect</b>	<b>12</b>
<b>7</b>	<b>Danksagung</b>	<b>12</b>

## 1 Introduction

As far as I can remember this package is the result of me writing a cooking book<sup>2</sup>. Back then I wasn't able to find the cooking symbols I wanted and using `time`, `tikz`, lot's of magic (also known as "programming", but only if the respective person knows what's going on) and a documentation in bad grammar<sup>3</sup> I somehow ended up with this package.

During time  $\text{\LaTeX}$ 3 became known to me and I started experimenting and programming in this (I would say due to its simplicity compared to  $\text{\LaTeX}$ 2 $\epsilon$  far superior) language. Well, long story short: I was impressed. And so the idea of writing my package in  $\text{\LaTeX}$ 3 was born.

I finally took my time and started rewriting my code using  $\text{\LaTeX}$ 3. This process can be summarized as: "What *does* this command?", "Why did I define *this* command?" and more generally "*What* have I done?!" Well, let's hope my code (and grammar) is better this time<sup>4</sup>.

Well ... thats it, have fun!

## 2 Important changes

The packages should behave the same way as the "old" ( $\text{\LaTeX}$ 2 $\epsilon$ ) release.

The option `draft=absolute` is now obsolete and replaced by the much simpler option `draft=true`.

Furthermore the horribly named command `\tikzsymbolsaftersymbolinput` is not defined anymore by this package. Please use the new option `after-symbol`, in combination with the new command `\tikzsymbolset`, see section 3 for more information.

And a new Emoticon: `\Changey` (and `\dChangey`).

## 3 Options

Options can either be set as package options or using `\tikzsymbolset`. Some options can only be set as package options, those are described in section 3.1.

It is recommended to use the option `draft=true` while working on the document.

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<sup>2</sup>Well, it's one result, the other one is a cooking book.

<sup>3</sup>Not that it's now any better.

<sup>4</sup>Looking at own risk. You have been warned.

---

`\tikzsymbolsset`    `\tikzsymbolsset {<keys & values>}`

---

Most keys, except for the load-time options (section 3.1), can be set using this command.

### 3.1 Load-time Options

The following options *cannot* be set using `\tikzsymbolsset`.

#### 3.1.1 marvosym (true/false)

Please load `tikzsymbols` *after* `marvosym`.

`marvosym` also defines `\Smiley` and `\Coffeecup`. If you prefer those symbols (☺, ☕) over the `tikzsymbols` ones (☺, ☕) you can use this option. If set to `true` `tikzsymbols` cancels the definition of its `\Smiley` and `\Coffeecup`:

Without option “marvosym”: ☺ ☕	With option “marvosym”: ☺ ☕
<code>\usepackage{marvosym}</code>	<code>\usepackage{marvosym}</code>
<code>\usepackage{tikzsymbols}</code>	<code>\usepackage[marvosym]{tikzsymbols}</code>

This option raises an error if set `true` without loading package `marvosym`.

Can only be set as load-time option.

You may also use the option `prefix` (section 3.1.3).

#### 3.1.2 usebox (true/false)

In `tikzsymbols` all symbols are stored inside boxes (`\sbox`) and while I still have no idea what exactly happens, it shortens the compilation time of the document. By default this option is `true`.

The drawback is that L<sup>A</sup>T<sub>E</sub>X has only a limited number of box registers. If you come across an error message regarding boxes try setting `usebox=false`.

Can only be set as load-time option.

#### 3.1.3 prefix (<string>)

This option takes a string as value: `prefix=<string>` and adds this prefix to every command defined by this package. So setting `prefix=<prefix>` adds `<prefix>` to all commands of this package: `\<prefix>command`.

`<prefix>` should neither contain any special characters (e.g., ä, ü, ß, etc.) nor spaces.

By default it is empty, so no prefix is given, if this option is given without an argument `<prefix>` is set to `tikzsymbols`.

Can only be set as a load-time option.

For example:

`\usepackage[prefix=tikzsym]{tikzsymbols}`

defines `\Smiley` as `\tikzsymSmiley`, `\Kochtopf` as `\tikzsymKochtopf`, `\pot` as `\tikzsympot`, etc.

If you use this option or think about using this option the following command may be handy:

---

`\tikzsymbolsuse`    `\tikzsymbolsuse{\Symbolname}`

---

This command takes the name of the symbol *without* backslash and prints the symbol (or raises an error if the symbol is not defined). Using this command you don't have to worry about a `<prefix>`, just write the command name and this command adds automatically the given prefix to the command name.

For example: `\tikzsymbolsuse{Smiley}[2]` ☺  
`\tikzsymbolsuse{BasicTree}[1.2]{black}{red!50!black}{red}{leaf}` 🌳  
`\tikzsymbolsuse{Ofen}` 🚪  
`\tikzsymbolsuse{Fire}[-1.3]` 🔥  
etc.

## 3.2 Preamble Options

Most of these commands can be set either as package option or with `\tikzsymbolsset`.

### 3.2.1 final (true/false)

---

`final`    `final= <true/false>`

---

This key has the opposite behavior of the option `draft`.

It is a boolean key and therefore accepts only `true` or `false` and is set to `true` by default. Setting it to `true` prints all symbols normally. Setting it to `false` prints plain vanilla draft-boxes instead which speeds up the compile-process.

### 3.2.2 draft (true/false)

---

`draft`    `draft = <true/false>`

---

While working on the document it is recommended to set this option to `true` because creating many symbols may takes some time to compile and by setting this option to `true` the symbols are replaced by plain vanilla rectangles which are faster to create.

The old option `draft=absolute` is obsolete and should therefore not be used.

### 3.2.3 tree (true/false/on/off)

---

<b>tree</b>	<code>tree= &lt;true/on/false/off&gt;</code>
-------------	--

---

This key accepts `true`, `false` and furthermore `on` and `off`. The latter do exactly the same as the first ones.

This option has only an effect on the command `\BasicTree` and his derivatives (`\Springtree`, `\Summertree`, `\Autumntree` and `\Wintertree`) and substitutes them with tikz drawn boxes.

So while `draft=true` replaces the output of *all* commands with simple black boxes, `tree=true/on` only replaces the output of “tree”-commands with boxes.

It is recommended to use `draft=true`, but if you want you can use this option.

### 3.2.4 after-symbol (<string or command>)






---

<b>after-symbol</b>	<code>after-symbol = {\&lt;string or command&gt;}</code>
---------------------	--

---

Is more stable if set using `\tikzsymbolset`. The value of this key is inserted after every command of this package. By default it is set to `\xspace`.

## 4 Symbols

In this section the symbols are introduced. They  all  change   
automatically  with  text-size  $\%$ .

















## 4.1 cooking-symbols 🍲

\Kochtopf  
 \pot  
 \Bratpfanne  
 \fryingpan  
 \Schneebeesen  
 \eggbeater  
 \Sieb  
 \sieve  
 \Purierstab  
 \blender  
 \Dreizack  
 \trident  
 \Backblech  
 \bakingplate  
 \Ofen  
 \oven  
 \Pfanne  
 \pan  
 \Herd  
 \cooker  
 \Saftpresse  
 \squeezer  
 \Schussel  
 \bowl  
 \Schaler  
 \peeler  
 \Reibe  
 \grater  
 \Flasche  
 \bottle  
 \Nudelholz  
 \rollingpin

The following table shows all available cooking-symbols and their respective commands. The first column shows the command-names (german & english), the second the optional parameter(s). The optional parameter(s) are for both the german and the english commands the same.

$\langle scale \rangle$  can be a number between (not exactly)  $-1400$  and (also not exactly)  $1400$ , default is  $1$ .

Da Umlaute nicht in Befehlsnamen vorkommen dürfen, werden die Umlaute ö, ä, ü durch o, a, u ersetzt.

German & English Commands	Optional parameter(s)	Output
\Kochtopf    \pot	$[\langle scale \rangle]$	
\Bratpfanne    \fryingpan	$[\langle scale \rangle]$	
\Schneebeesen    \eggbeater	$[\langle scale \rangle]$	
\Sieb    \sieve	$[\langle scale \rangle]$	
\Purierstab    \blender	$[\langle scale \rangle]$	
\Dreizack    \trident	$[\langle scale \rangle]$	
\Backblech    \bakingplate	$[\langle scale \rangle]$	
\Ofen    \oven	$[\langle scale \rangle]$	
\Pfanne    \pan	$[\langle scale \rangle]$	
\Herd    \cooker	$[\langle scale \rangle]$	
\Saftpresse    \squeezer	$[\langle scale \rangle]$	
\Schussel    \bowl	$[\langle scale \rangle]$	
\Schaler    \peeler	$[\langle scale \rangle]$	
\Reibe    \grater	$[\langle scale \rangle]$	
\Flasche    \bottle	$[\langle scale \rangle]$	
\Nudelholz    \rollingpin	$[\langle scale \rangle]$	

## 4.2 Emoticons ☺

### 4.2.1 “normal” Emoticons 🐱

\Smiley	First column shows the commands, the second the (optional) parameter(s),
\Sadey	the third the default-output (the only command with a mandatory argument is
\Neutrey	\Changey).
\Changey	$\langle scale \rangle$ can be a number between (not exactly) $-2000$ and (not exactly) $2000$ ,
\Annoey	default is 1.
\Laughey	$\langle color \rangle$ can be every defined color. Note: The color names shouldn't contain
\Winkey	special characters like ß, ä, ö, ...
\oldWinkey	\Changey's $\langle mood \rangle$ has to be between $-2$ and $2$ (1 equals \Smiley, $-1$ \Sadey
\Sey	and 0 \Neutrey).
\Xey	
\Innocey	

	Commands	(Optional) parameter(s)	Output
\Cooley	\Smiley	$[\langle scale \rangle] [\langle color \rangle]$	☺
\Tongey	\Sadey	$[\langle scale \rangle] [\langle color \rangle]$	☹
\Nursey	\Neutrey	$[\langle scale \rangle] [\langle color \rangle]$	☺
\Vomey	\Changey	$[\langle scale \rangle] [\langle color \rangle] \{ \langle mood \rangle \}$	☺
\Walley	\Annoey	$[\langle scale \rangle] [\langle color \rangle]$	☹
\rWalley	\Laughey	$[\langle scale \rangle] [\langle color \rangle] [\langle mouth color \rangle]$	☺
\Cat	\Winkey	$[\langle scale \rangle] [\langle color \rangle]$	☺
\Ninja	\oldWinkey	$[\langle scale \rangle] [\langle color \rangle]$	☺
\NiceReapey	\Sey	$[\langle scale \rangle] [\langle color \rangle]$	☹
	\Xey	$[\langle scale \rangle] [\langle color \rangle]$	☹
	\Innocey	$[\langle scale \rangle] [\langle color \rangle] [\langle halo color \rangle]$	☺
	\wInnocey	$[\langle scale \rangle]$	☺
	\Cooley	$[\langle scale \rangle] [\langle color \rangle]$	☺
	\Tongey	$[\langle scale \rangle] [\langle color \rangle] [\langle tongue color \rangle]$	☺
	\Nursey	$[\langle scale \rangle] [\langle color \rangle] [\langle cap color \rangle] [\langle cross color \rangle]$	☺
	\Vomey	$[\langle scale \rangle] [\langle color \rangle] [\langle vomit color \rangle]$	🤮
	\Walley	$[\langle scale \rangle] [\langle color \rangle] [\langle wall color \rangle]$	🕸
	\rWalley	$[\langle scale \rangle] [\langle color \rangle] [\langle wall color \rangle]$	🕸
	\Cat	$[\langle scale \rangle]$	🐱
	\Ninja	$[\langle scale \rangle] [\langle color \rangle] [\langle headband color \rangle] [\langle eye color \rangle]$	🥷
	\NiceReapey	$[\langle scale \rangle]$	👤

“r” for “random generated cracks”.

Examples: \Sadey[] [red] 🚫

\Cooley[-3] [cyan] 🐼

\Vomey[1.5] [green!80!black] [olive] 🤮

\Nursey[] [yellow] [blue] [red] ☺

```

\Ninja[1.3] [] [violet] [red] 🍡.
\colorbox{yellow}{\Winkey \Annoey[-1]\Neutrey} 😊😞😞
\textcolor{blue}{\Sey} 😊
\Changey{-2} 😊 \Changey{-1.367} 😊 \Changey{-1} 😊 \Changey{0} 😊
\Changey{1} 😊 \Changey{1.41} 😊 \Changey{2} 😊

```

#### 4.2.2 “3D” Emoticons 😊😞

First column shows the commands (note: the “3D” Emoticons begin with `\d...`), the second shows the (optional) parameter(s), the third shows the default output (the only command with a mandatory argument is `\dChangey`).  
`\langle scale \rangle` can be a number between a small number (under  $-500$  for sure) and a large number (over  $500$  for sure), default is  $1$ .  
`\langle color \rangle` can be every defined color (see examples below). Note: The color names shouldn’t contain special characters like  $\beta$ ,  $\ddot{a}$ ,  $\ddot{o}$ , ...  
`\Changey`’s `\langle mood \rangle` has to be between  $-2$  and  $2$  ( $1$  equals `\dSmiley`,  $-1$  equals `\dSadey` and  $0$  equals `\dNeutrey`).

	Commands	Optional parameter(s)	Output
<code>\dSmiley</code>	<code>[\langle scale \rangle] [\langle color \rangle]</code>		😊
<code>\dSadey</code>	<code>[\langle scale \rangle] [\langle color \rangle]</code>		😞
<code>\dNeutrey</code>	<code>[\langle scale \rangle] [\langle color \rangle]</code>		😊
<code>\dChangey</code>	<code>[\langle scale \rangle] [\langle color \rangle] {\langle mood \rangle}</code>		😊
<code>\dLaughey</code>	<code>[\langle scale \rangle] [\langle color \rangle] [\langle mouth color \rangle]</code>		😂
<code>\dAnnoey</code>	<code>[\langle scale \rangle] [\langle color \rangle]</code>		😞
<code>\dWinkey</code>	<code>[\langle scale \rangle] [\langle color \rangle]</code>		😊
<code>\olddWinkey</code>	<code>[\langle scale \rangle] [\langle color \rangle]</code>		😊
<code>\dSey</code>	<code>[\langle scale \rangle] [\langle color \rangle]</code>		😞
<code>\dXey</code>	<code>[\langle scale \rangle] [\langle color \rangle]</code>		😞
<code>\dInnocey</code>	<code>[\langle scale \rangle] [\langle color \rangle] [\langle halo color \rangle]</code>		😎
<code>\dCooley</code>	<code>[\langle scale \rangle] [\langle color \rangle]</code>		😎
<code>\dTongey</code>	<code>[\langle scale \rangle] [\langle color \rangle] [\langle tongue color \rangle]</code>		😊
<code>\dNursey</code>	<code>[\langle scale \rangle] [\langle color \rangle] [\langle cap color \rangle] [\langle cross color \rangle]</code>		👨‍🚒
<code>\dVomey</code>	<code>[\langle scale \rangle] [\langle color \rangle] [\langle vomit color \rangle]</code>		🤮
<code>\dWalley</code>	<code>[\langle scale \rangle] [\langle color \rangle] [\langle wall color \rangle]</code>		👨‍🚒
<code>\drWalley</code>	<code>[\langle scale \rangle] [\langle color \rangle] [\langle wall color \rangle]</code>		👨‍🚒
<code>\dNinja</code>	<code>[\langle scale \rangle] [\langle color \rangle] [\langle headband color \rangle] [\langle eye color \rangle]</code>		🍡

Examples: `\dSadey [] [red]` 🍡

`\dCooley [-3] [cyan]` 🍡

`\dVomey [1.5] [green!70!black] [olive]` 🍡

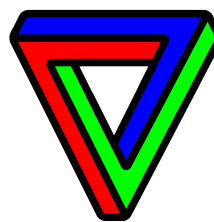


`\dNurseyl [yellow] [blue] [red] 🧑.`  
`\dNinja[1.3] [] [violet] [red] 🥷.`  
`\dChangey{-2} 😞 \dChangey{-1.367} 😞 \dChangey{-1} 😞 \dChangey{0}`  
`😄 \dChangey{1} 😄 \dChangey{1.41} 😄 \dChangey{2} 😄`

### 4.3 other Symbols 📖

<code>\Strichmaxerl</code>	<code>\Strichmaxerl</code> 's optional parameters 2–5 ( <i>⟨left arm⟩</i> to <i>⟨right leg⟩</i> ) can be
<code>\Person</code>	a number between $-360$ and $360$ (of course the number can be even greater or
<code>\Candle</code>	even smaller.). The parameters are the angles between the body and the separate
<code>\Fire</code>	parts of <code>\Strichmaxerl</code> (see examples).
<code>\Coffeecup</code>	<i>⟨scale⟩</i> can be a very great and a very small negative number (but I don't
<code>\Chair</code>	think, that you need so large symbols).
<code>\Bed</code>	<i>⟨color⟩</i> can be every defined color. Note: The color names shouldn't contain
<code>\Tribar</code>	special characters like ß, ä, ö, ....
<code>\Moai</code>	
<code>\Snowman</code>	

Commands	Optional parameter(s)	Output
<code>\Strichmaxerl</code>	[ <i>⟨scale⟩</i> ] [ <i>⟨left arm⟩</i> ] [ <i>⟨right arm⟩</i> ] [ <i>⟨left leg⟩</i> ] [ <i>⟨right leg⟩</i> ]	🧑
<code>\Candle</code>	[ <i>⟨scale⟩</i> ]	🕯
<code>\Fire</code>	[ <i>⟨scale⟩</i> ]	🔥
<code>\Coffeecup</code>	[ <i>⟨scale⟩</i> ]	☕
<code>\Chair</code>	[ <i>⟨scale⟩</i> ]	🪑
<code>\Bed</code>	[ <i>⟨scale⟩</i> ]	🛏
<code>\Moai</code>	[ <i>⟨scale⟩</i> ]	🪦
<code>\Tribar</code>	[ <i>⟨scale⟩</i> ] [ <i>⟨color 1⟩</i> ] [ <i>⟨color 2⟩</i> ] [ <i>⟨color 3⟩</i> ]	🔺
<code>\Snowman</code>	[ <i>⟨scale⟩</i> ]	🧊



`\Tribar[-10] [blue] [red] [green]`  
`\Tribar[2.1] [blue] [blue!50] [blue!20] 🔺`  
`\Strichmaxerl[1] [10] [30] [40] [4] 🧑,`  
`\Strichmaxerl[1.4] [210] [310] [10] [90] 🧑,`  
`\Strichmaxerl[2] [510] [110] [190] [990] 🧑,`  
`\Strichmaxerl[0.9] [54] [28] [95] [16] 🧑`  
`\Strichmaxerl[] [54] [28] 🧑`

---

```

\BasicTree
\Springtree
\Summertree
\Wintertree
\WorstTree

```

---

## 4.4 Trees 🌳






$\langle scale \rangle$  can be a number between (not exactly)  $-900$  and (again not exactly)  $900$ , default is 1.

$\langle color \rangle$  can be every defined color (see examples below). Note: The color names shouldn't contain special characters like ß, ä, ö, ...

$\{\langle leaf \rangle\}$  uses the colors of  $\{\langle leaf\ color\ a \rangle\}$  and  $\{\langle leaf\ color\ b \rangle\}$ , you can leave this one empty if you don't want leaves (`\Wintertree` is without *leaf*, see examples below).


If you are using those trees, L<sup>A</sup>T<sub>E</sub>X needs longer to produce the output. So you may use the package option `tree=off`, or (better) `draft=true` (see section 3.2.2 and section 3.2.3) to make L<sup>A</sup>T<sub>E</sub>X faster.

Furthermore this trees are pretty much stolen from the tikz manual. I regret nothing.

Commands	Optional/Needed parameter(s)	Output
<code>\BasicTree</code>	$[\langle scale \rangle] \{\langle trunk\ color \rangle\} \{\langle leaf\ color\ a \rangle\} \{\langle leaf\ color\ b \rangle\} \{\langle leaf \rangle\}$	see below
<code>\Springtree</code>	$[\langle scale \rangle]$	
<code>\Summertree</code>	$[\langle scale \rangle]$	
<code>\Autumntree</code>	$[\langle scale \rangle]$	
<code>\Wintertree</code>	$[\langle scale \rangle]$	
<code>\WorstTree</code>	$[\langle scale \rangle]$	

`\BasicTree` **examples** Some “normal” trees:

```
\colorbox{green}{\BasicTree{red}{orange}{yellow}{leaf}}
```



```
\BasicTree[5]{orange!95!black}{orange!80!black}{orange!70!black}{leaf}
```



```
\BasicTree[2]{blue!65!white}{cyan!50!white}{cyan!50!white}{}
```



```
\BasicTree[-1.54]{green!20!black}{green!50!black}{green!70!black}{leaf}
```




```
\colorbox{black}{\BasicTree[3.75]{gray!80}{gray!50}{gray!40}{leaf}}
```







`draftbox \BasicTree` **examples** Some “draftbox” trees (using `tree=false`):

...and using the same trees with `tree=off/false` or `draft(=true)`:

```
\colorbox{green}{\BasicTree{red}{orange}{yellow}{leaf}}
```



```

\BasicTree[5]{orange!95!black}{orange!80!black}{orange!70!black}{leaf}

\BasicTree[2]{blue!65!white}{cyan!50!white}{cyan!50!white}{ } 
\BasicTree[-1.54]{green!20!black}{green!50!black}{green!70!black}{leaf}

\colorbox{black}{\BasicTree[3.75]{gray!80}{gray!50}{gray!40}{leaf}}


```

I think it's better if you define your own trees using `\newcommand` and `\BasicTree`:

```

\newcommand{\Myicetree}[1][1]{%
  \BasicTree[#1]{blue!65!white}{cyan!50!white}{cyan!50!white}{}}

```

## 5 Known errors & Problems

### marvosym

Make sure you load `marvosym` *before* `tikzsymbols` because both packages define `\Smiley`, `marvosym` via `\newcommand` `tikzsymbols` via `\DeclareDocumentCommand`.

If you load `marvosym` *after* `tikzsymbols`, L<sup>A</sup>T<sub>E</sub>X generates an error-message because `\Smiley` has already been defined.

If you load `marvosym` *before* `tikzsymbols`, `tikzsymbols` will overwrite `marvosym`'s `Smiley` (and `Coffeecup`) and no error-message is generated (if you like the `\Smiley` from `marvosym` more, use the `tikzsymbols` option `marvosym` or `prefix`).

### babel

If you encounter an error message like

```
Argument of \pgffor@next has an extra }
```

while using `babel` with e.g. language "français" and for example `\Cooley` you may add

```
\usetikzlibrary{babel}
```

to your preamble. This should (hopefully) fix the problem.

## 6 Nobody is perfect

If you find a bug please send me a mail involving a *minimal example* showing the bug and a short description. Please mention “tikzsymbols” in the header, “gmx” has a habit of putting mails into the spam-folder and it helps me to recognize those mails faster. This can also be the reason why I may need some time to answer the mail.

Suggestions are also welcome.

## 7 Danksagung

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