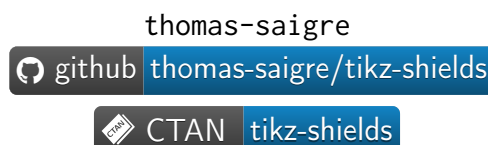


# The TikZ-shields package



Version v1.0 – 17/10/2025

## 1 Introduction

This package allows inserting badges looking like the one that can be generated from [shields.io](https://shields.io).

To render the badges, **TikZ** and more precisely **tcolorbox** is used, inspired by [this discussion](#) on T<sub>E</sub>X.StackExchange.

The package is available from CTAN<sup>1</sup>. Its development version is available on GitHub<sup>2</sup>. If you encounter any issue, or if you have feedback or ideas, please use the [bug tracker](#).

Copyright ©thomas-saigre. This package is published under the GPL-3.0 license, permitting use, modification, and distribution under the terms of the [GNU General Public License version 3.0](#).

## Contents

<b>1</b>	<b>Introduction</b>	<b>1</b>
<b>2</b>	<b>Basic usage</b>	<b>1</b>
<b>3</b>	<b>Optional arguments</b>	<b>2</b>
<b>4</b>	<b>Examples</b>	<b>2</b>
4.1	Customize badges . . . . .	2
4.2	Clickable badges . . . . .	4
<b>5</b>	<b>Special badges</b>	<b>4</b>
5.1	Git repository . . . . .	4
5.2	License . . . . .	5
5.3	Publication badges . . . . .	5
<b>6</b>	<b>Use logos with fontawesome</b>	<b>6</b>

## 2 Basic usage


**Syntax:**

```
\drawBadge[<options>]{<left text>}{<right text>}
```

**Arguments:**

- [**<options>**] (optional): Key-value options to customize the badge appearance, see next section.
- {<left text>} (required): Text displayed in the left part of the badge.
- {<right text>} (required): Text displayed in the right part of the badge.

<sup>1</sup><https://ctan.org/pkg/tikz-shields>






<sup>2</sup> <https://github.com/thomas-saigre/tikz-shields>

```
\drawBadge{Any text}{you like}
```



### 3 Optional arguments

Some optional arguments can be passed to the macro `\drawBadge` (as well as the other ones described in this document):

Name	Description	Default value	Pkg
baseline	Baseline of the badge	0mm	
color	Background color of the right part of the badge	default-blue 	✓
colorLeft	Text color of the left part of the badge	white 	✓
colorRight	Text color of the right part of the badge	white 	✓
font	Font used in badges	\sf	✓
labelColor	Background color of the left part of the badge	default-left 	✓
logo	Logo displayed before the text		
logoColor	Color of the logo	white 	✓
link	Clickable link		
showlink	Draw the hyperref border around the badge	false	
style	Style of the badge. Possible values are: flat, flat-square, plastic, for-the-badge, social	flat	✓



If the last column is ticked, then the option can be specified as default option for the whole library, that can be passed when loading it, for instance `\usepackage[labelColor=red]{tikz-shields}`.

Note that anything can be used as a logo, even a text or a personalized command that you would have created (in an example described in Section 5 `\def\checkmark{\tikz\fill[scale=0.4] (0,.35) -- (.25,0) -- (1,.7) -- (.25,.15) -- cycle;}`).

The Section 4 presents some examples of badges that can be generated, while Section 5 shows some preset badges.

## 4 Examples

### 4.1 Customize badges

The colors of backgrounds and texts can be customized, the default color being `default-left`  and `default-blue` , for the left and right part respectively. Following the names from [img.shields.io](https://img.shields.io), the options are:

	Left bloc	Right bloc
Background	labelColor	color
Text	colorLeft	colorRight

## Change color

```
\drawBadge[color=red]{Any text}{you like}  
\drawBadge[labelColor=white, colorLeft=red]{Any text}{you like}  
\drawBadge[labelColor=pink, color=black, colorRight=yellow]{Any text}{you like}
```



Custom logos can be employed, as in the previous example where an image is loaded to use the logo<sup>3</sup>.

## Customize logo

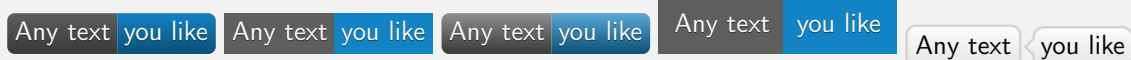
```
\drawBadge[logo=\faFilm]{Movie}{5~\faStar}  
\drawBadge[logoColor=black, logo=\faHistory, labelColor=yellow]{Any text}{you like}  
\def\ctan{\includegraphics[height=1em]{doc/img/ctan-white.pdf}}  
\drawBadge[logo=\ctan]{\CTAN}{tikz-shields}
```



The style of the badge can also be chosen:

## Style of badges

```
\drawBadge[style=flat]{Any text}{you like}  
\drawBadge[style=flat-square]{Any text}{you like}  
\drawBadge[style=plastic]{Any text}{you like}  
\drawBadge[style=for-the-badge]{Any text}{you like}  
\drawBadge[style=social]{Any text}{you like}
```



As you can see in previous example, the badges are not aligned vertically. At this point, only `social` badges are automatically aligned with surrounding text (option `tcbbox raise base` which does not work with `\tcbsidebyside`).

The option `baseline` allows to manually set a vertical shift of the badges, but depend on the text present in the badge, by default it is null.

## Baseline<sup>4</sup>

```
\showbaseline{Hello, I'm  
\drawBadge[baseline=1.8mm]{Arthur}{Pendragon},  
and not  
\drawBadge[baseline=1mm]{Louis}{XIV}.  
}
```



The font used inside the badges can also be changed, either by using the `font` option where both text will be written with the same font; either by hard setting the text font.

<sup>3</sup>Logo of CTAN is a courtesy of [CTAN](#).

<sup>4</sup>The implementation of the macro `\showbaseline` is taken from [tex.stackexchange.com 432196/243474](https://tex.stackexchange.com/432196/243474).

## Font

```
\drawBadge[font=\bf, baseline=1mm]{Boldface}{font}  
\drawBadge[font=\tt, style=social]{Monospaced}{font}  
\drawBadge[style=social]{\texttt{Personalized}}{\textsc{Fonts}}
```

**Boldface** font Monospaced font Personalized FONTS

## 4.2 Clickable badges

Clickable links can also be set, using the option `link`. Another option, `showlink`, can be used to set whether the colored frame around the button appear. Note, for document where the links are hidden by default with `hyperref` (as the present document), this option won't have any effect.

### Clickable badges

```
\drawBadge[logo=\faWikipediaW, link=https://www.wikipedia.org]{{Wikipedia}}  
\drawBadge[logo=\faWikipediaW, showlink=true, link=https://www.wikipedia.org]{{Wikipedia}}
```

 Wikipedia  Wikipedia

## 5 Special badges

Some presets are available. For each one of them, the default options can be used to overwrite default values (as logo for instance).

### 5.1 Git repository

The `\githubBadge` command creates a badge showing path to a given repository. By default, the badge is clickable to `https://github.com/<repo path>` is done.

#### Syntax:

```
\githubBadge[<options>][<left text>]{<repo path>}
```

#### Arguments:

- [`<options>`] (optional): Key-value options to customize the badge appearance, see above.
- [`<left text>`] (optional): Text displayed on the left side of the badge, by default `github` (or `gitlab` or empty for the other commands).
- `{<repo path>}` (required): Path to the repository.

The prototype is the same for `\gitlabBadge` and `\forgeBadge`. In the first case, the link redirects to `https://gitlab.com/<repo path>`, and in the second to `https://<repo path>`.

### Github badge

```
\githubBadge{thomas-saigre/tikz-shields}  
\githubBadge[logo=\faGit][]{thomas-saigre/tikz-shields}
```

 github thomas-saigre/tikz-shields  git thomas-saigre/tikz-shields

### Gitlab badge

```
\gitlabBadge[color=orange]{inkscape/inkscape}  
\gitlabBadge[color=orange][]{inkscape/inkscape}
```



### Custom forge badge

```
\forgeBadge[labelColor=black, logo=\faCode]{code.videolan.org/videolan/vlc}  
\forgeBadge[logo=\checkmark][VLC]{code.videolan.org/videolan/vlc}
```



In all cases, the generated badge is clickable and redirect to the repository provided. The icon can be customized, as well as the color.

## 5.2 License

The `\licenseBadge` command creates a badge displaying a license name, optionally with custom options and left-side text. By default, a clickable badge directing to <https://creativecommons.org/<license name>> is done. Note that this webpage may not exist, but the link can either be manually changed, or an empty link can be provided.

### Syntax:

```
\licenseBadge[<options>][<left text>]{<license name>}
```

### Arguments:

- [`<options>`] (optional): Key-value options to customize the badge appearance, see above.
- [`<left text>`] (optional): Text displayed on the left side of the badge (defaults to `license` in lowercase).
- `{<license name>}` (required): Name of the license to display.

### License badges

```
\licenseBadge[link=https://github.com/thomas-saigre/tikz-shields/blob/main/LICENSE]{GPL-3.0-1}  
\licenseBadge[][LICENSE]{cc0}  
\licenseBadge[link=]{WTFPL}
```



## 5.3 Publication badges

The commands `\doiBadge` (as well as `\arxivBadge`, `\halBadge` and `\arxivBadge`) create that redirect to the publication webpage from the provided identification number.

### Syntax:

```
\doiBadge[<options>][<left text>]{<id>}
```

## Arguments:

- [`<options>`] (optional): Key-value options to customize the badge appearance, see above.
- [`<left text>`] (optional): Text displayed on the left side of the badge (defaults to DOI, arXiv or HAL).
- `{<id>}` (required): Number of identification of the publication.

Other commands with the same prototype are also provided and redirect to different publication platforms, as shown in the following table:

Macro	Redirection link
<code>\doiBadge</code>	<code>https://doi.org/&lt;id&gt;</code>
<code>\arxivBadge</code>	<code>https://arxiv.org/abs/&lt;id&gt;</code>
<code>\halBadge</code>	<code>https://hal.science/hal-&lt;id&gt;</code>
<code>\pubmedBadge</code>	<code>https://pubmed.ncbi.nlm.nih.gov/&lt;id&gt;</code>

## Publication badge

```
\doiBadge{10.1002/cnm.3864}  
\arxivBadge{2503.22907v1}  
\halBadge{04918559}  
\pubmedBadge{35955000}
```

DOI 10.1002/cnm.3864

arXiv 2503.22907v1





HAL 04918559

PubMed 35955000



## 6 Use logos with fontawesome

As pointed out in [Issue #9](#), there might be some issues of compatibility if a different version of fontawesome is loaded.

This can be set with the option `fa` when loading the package: `\usepackage[fa=<n>]{tikz-shields}`.

n	Package loaded	Note
0	None	You can manually load any package you want.
1	 fontawesome	Default value, used for this document.
5	 fontawesome5	
6	 fontawesome6	
7	 fontawesome7	

With this option comes the definition of macros for the logos, that can be manually changed. If no logo package is loaded, or if the desired logo is not present in the packages, then these macro are empty:

Macro	Description	Example (with <code>fa=1</code> )
<code>\tikzshieldGithub</code>	GitHub logo	
<code>\tikzshieldGitlab</code>	GitLab logo	
<code>\tikzshieldLicence</code>	Balance icon	