

customenvs-tikzbadge

(part of customenvs)

Pill-shaped badges (icon or image + text),
with TikZ,

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customenvs-tikzbadge is included with customenvs, but can be loaded independently!

Icon	
Icon	
Width	

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1 The package customenvs-tikzbadge

1.1 Ideas

The idea is to display a small “pill-shaped” badge: a disc (an icon from `tablericons`, or a custom image) on the left, glued to a rounded-rectangle capsule containing a text on the right – like the classic “TRUE/FALSE” style badges.

Just like the rest of `customenvs`, the badge can be inserted inline with an automatic height (with or without depth), or with a manual height:

- height is given by the height of `M` in the current font (`strut` can change it) when `height=auto`;
- total height and depth are given by the total height and depth of `qM` in the current font (`dstrut` can change it) when `height=dauto` (the default);
- a fixed dimension (2cm, 1in, ...) can be given instead.

The width of the capsule can either be computed automatically from the text (`width=auto`, the default), or fixed to a given dimension – handy to align several badges on the same right edge.

1.2 Loading

The package loads within the preamble, with `\usepackage{customenvs-tikzbadge}`.

If `customenvs` is loaded, it loads itself `customenvs-tikzbadge`.

The only packages loaded on top of $\text{\TeX}$ ’s kernel are `tablericons` (which itself brings in `simplekv`, `graphics`) and `tikz`.

```
\usepackage{customenvs-tikzbadge}
```

1.3 Gallery

Icon	q  TRUE M
Icon	q  FALSE M
Icon	q  COOL M
Fixed width	q  OK M
Rotated	q  OK M

2 \tkzpillbadge

```
\tkzpillbadge[keys]<tikz options>{text}

%keys:
%color      = gray
%txtcolor   = white
%txtratio   = 0.8
%height     = dauto (auto / dauto / <dim>)
%width      = auto (auto / <dim>, total width of the badge)
%icon       = check (any tablericons name)
%image      = {} (overrides icon if not empty, e.g. \includegraphics...)
%imageclip  = false (clip image within smaller circle)
%hoffset    = 0.075 ('gap' between the disc and the capsule)
%autoraise  = true (raisebox so the badge sits on the baseline or depthline)
%strut      = {M} (reference for height=auto)
%dstrut     = {qM} (reference for height=dauto)
%txtphantom = {qM} (reference height for the text inside the capsule)
```

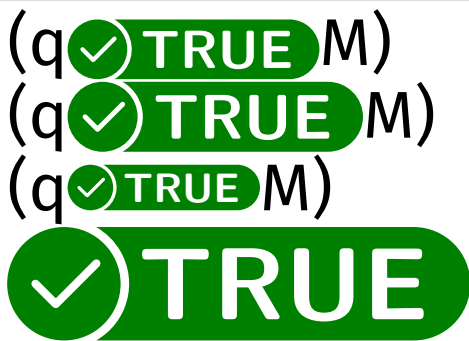
2.1 Basic usage

```
\tkzpillbadge[color=green!50!black]{TRUE}\quad
\tkzpillbadge[color=red!50!black,icon=x]{FALSE}
```



2.2 Height

```
{\Huge (q\tkzpillbadge[color=green!50!black]{TRUE}M)}\\
{\Huge (q\tkzpillbadge[color=green!50!black,dstrut={qM}]{TRUE}M)}\\
{\Huge (q\tkzpillbadge[color=green!50!black,height=auto]{TRUE}M)}\\
\tkzpillbadge[color=green!50!black,height=1.5cm]{TRUE}
```



2.3 Width

```
\tkzpillbadge[color=green!50!black,width=auto]{Really cool !}\\
\tkzpillbadge[color=green!50!black,width=4cm]{TRUE}\\
\tkzpillbadge[color=red!50!black,icon=x,width=4cm]{FALSE}
```



2.4 Custom image instead of an icon

```
\newlength\tkzbadgeimageheight % predeclared, defaults to 0.85cm
% relative to 1cm initial height !
```

```

\tkzpillbadge%
[%
  height=1in,%
  color=teal!75!black,%
  image={\includegraphics[height=\tkzbadgeimageheight,page=24]{ce-
educationvectors-all.pdf}},%
  imageclip%
]%
{C.Pierquet}

\tkzpillbadge%
[%
  height=1in,%
  color=teal!75!black,%
  image={\includegraphics[height=\tkzbadgeimageheight,page=24]{ce-
educationvectors-all.pdf}},%
  imageclip%
]%
{C.Pierquet}

```



2.5 autoraise

By default, the badge is raised so that its center sits on the baseline of the surrounding text (`autoraise=true`). Turning it off lets the badge sit with its bottom on the baseline instead – useful when composing several badges by hand in a `tikzpicture`:

```

\tkzpillbadge[color=green!50!black,autoraise=false]<rotate=15>{OK}
\tkzpillbadge[color=red!50!black,autoraise=false]{KO}
\tkzpillbadge[color=green!50!black,autoraise=false]<rotate=-15>{OK}

```



3 `\gentkzpillbadge` – generate a fixed-text badge

Once a badge is tuned (color, icon, options), `\gentkzbadge` generates a brand new macro with the text fixed once and for all, while still accepting keys/tikz options at the call site:

```
\gentkzpillbadge{\macro}{preset keys}{fixed text}
```

% then:

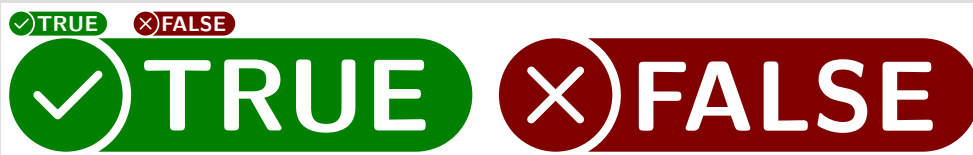
```
\macro[extra keys]<tikz options>
```

```
\gentkzpillbadge{\mybadgetrue}{color=green!50!black,icon=check}{TRUE}
```

```
\gentkzpillbadge{\mybadgefalses}{color=red!50!black,icon=x}{FALSE}
```

```
\mybadgetrue\quad\mybadgefalses
```

```
\mybadgetrue[height=1.5cm]\quad\mybadgefalses[height=1.5cm]
```



The preset keys and the ones given at the call site are merged, the call-site ones taking precedence – so a preset color, for instance, can still be overridden punctually.

4 Aligning several badges on the same width

`width=auto` computes the width of *each* badge independently from its own text – so badges with different texts naturally end up with different widths. To get several badges sharing the exact same auto-computed width (the widest one of the group), combine `width=auto` with `\halignmakebox` from `customenvs-macros` (loaded separately, it is *not* a dependency of `customenvs-tikzbadge`): it typesets its first argument in an invisible box whose width is the max width over the list of texts given as second argument.

```
\usepackage{customenvs-macros}%for \halignmakebox only
```

```
\tkzpillbadge[color=pink]{\halignmakebox{True}{True,False,Really,Cool}}\n
```

```
\tkzpillbadge[color=teal]{\halignmakebox{False}{True,False,Really,Cool}}\n
```

```
\tkzpillbadge[color=orange]{\halignmakebox{Really}{True,False,Really,Cool}}\n
```

```
\tkzpillbadge[color=olive]{\halignmakebox{Cool}{True,False,Really,Cool}}
```

```
\tkzpillbadge[color=pink]{\halignmakebox{True}{True,False,Really,Cool}}\n
```

```
\tkzpillbadge[color=teal]{\halignmakebox{False}{True,False,Really,Cool}}\n
```

```
\tkzpillbadge[color=orange]{\halignmakebox{Really}{True,False,Really,Cool}}\n
```

```
\tkzpillbadge[color=olive]{\halignmakebox{Cool}{True,False,Really,Cool}}
```



The four badges above share the same width – the one needed for `Really`, the longest text of the group – instead of each shrinking to fit its own text.

5 History

v0.1.0: Initial version (\tkzpillbadge + \gentkzbadge)