

customenvs-tikzpictos

(part of customenvs)

Small pictograms, with TikZ,
for manual or inline insertion.










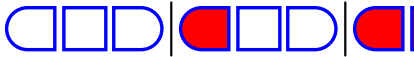




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<https://github.com/cpierquet/latex-packages/tree/main/customenvs>

<https://forge.apps.education.fr/pierquetcedric/packages-latex>

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

Wifi	
Wifi (bars)	
Network	
Stars	
Speedometer	
BullsEye	
Battery	
Battery (flip)	
Skills	
Pill	
TrafficLight	
MiniCalendar	
Clippy	
Dball	

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1 The package customenvs-pictos

1.1 Ideas

The idea is to display some pictograms like. Each pictogram can be inserted inline with automatic height (with or without depth), or with a manual height.

The code determines (total)height and, if necessary, depth of letters in the current font, in order to position the pictogram correctly:

- height is given by height of `AZERTYUIOPSDFGHKLWXCVBN` in the current font (`strut` can change it);
- total height and depth are given by total height and depth of `azerty...UIOPQSDFGHJKLWXCVBN` in the current font (`dstrut` can change it).

1.2 Loading































































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





























































If `customenvs` is loaded, it load itself `customenvs-tikzpictos`





























































The only loaded packages are `simplekv`, `calc`, `simplekv`, `listofitems`, `xstring`, `xintexpr` and `tikz` (with `shapes.geometric` / `bbox` / `3d` libraries).





























































```
\usepackage{customenvs-tikzpictos}
```

1.3 Gallery

Wifi	q      H
Wifi (bars)	q      H
Network	q      H
Stars	q      H
Speedometer	q      H
BullsEye	q     H
Battery	q     H
Battery (flip)	q     H
Skills	q     H
Pill	q      H
TrafficLight	q    H
MiniCalendar	q    H
Clippy	q     H
Dball	q       H

Wifi	q      H
Wifi (bars)	q      H
Network	q      H
Stars	q      H
Speedometer	q      H
BullsEye	q     H
Battery	q     H
Battery (flip)	q     H
Skills	q     H
Pill	q     H
TrafficLight	q    H
MiniCalendar	q    H
Clippy	q     H
Dball	q    ...   H

Wifi	a      H
Wifi (bars)	a      H
Network	a      H
Stars	a      H
Speedometer	a      H
BullsEye	a     H
Battery	a     H
Battery (flip)	a     H
Skills	a     H
Pill	a     H
TrafficLight	a    H
MiniCalendar	a    H
Clippy	a     H
Dball	a    ...   H

Wifi	a      H
Wifi (bars)	a      H
Network	a      H
Stars	a      H
Speedometer	a      H
BullsEye	a     H
Battery	a     H
Battery (flip)	a     H
Skills	a     H
Pill	a     H
TrafficLight	a    H
MiniCalendar	a    H
Clippy	a     H
Dball	a    ...   H

2 Macros

2.1 Global usage

```
\tkzpicto%
[keys]
<tikz options>
{type=params}
```

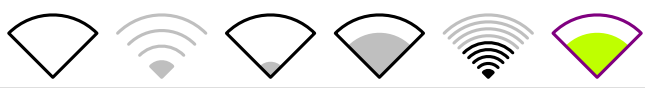
2.2 Wifi

```
\tkzpicto%
[style=...,height=...,colors=...,(d)strut=...]
<tikz options>
{wifi=level/nblevels}
```

```

\Huge
\tkzpicto{wifi} %default (full)
\tkzpicto[style=bar]{wifi} %default (bar)
\tkzpicto{wifi=1} %with 4 levels
\tkzpicto{wifi=5/7} %custom (full)
\tkzpicto[style=bar]{wifi=5/9} %custom (bar)
\tkzpicto[colors=violet/lime]{wifi=5/7} %colored custom

```



2.3 Network

```

\tkzpicto%
[height=...,colors=..., (d)strut=...]
<tikz options>
{network=level/nblevels}

```

```

\Huge
\tkzpicto{network} %default
\tkzpicto{network=1} %with 4 levels
\tkzpicto{network=5/7} %full custom
\tkzpicto[colors=orange/brown!50]{network=5/7} %colored custom

```



2.4 Stars

```

\tkzpicto%
[height=...,colors=...,offset=..., (d)strut=...]
<tikz options>
{stars=level/nblevels}

```

```

\Huge
\tkzpicto{stars} %default
\tkzpicto{stars=1} %with 4 levels
\tkzpicto{stars=1.25/4} %full custom
\tkzpicto[colors=teal/magenta]{stars=5/7} %colored custom

```



2.5 SpeedoMeter

```

\tkzpicto%
[colors=..., (d)strut=...]
<tikz options>
{speedo=level/nblevels}

```

```

\Huge
\tkzpicto{speedo} %default
\tkzpicto{speedo=4} %with 4 levels
\tkzpicto{speedo=1.25/4} %full custom
\tkzpicto[colors=purple/olive]{speedo=5/7} %colored custom

```



2.6 Bullseye

```
\tkzpicto%
  [height=...,maincolor=...,color=TF,listcolors=..., (d)strut=...]
  <tikz options>
  {bullseye}
```

```
\Huge
\tkzpicto{bullseye} %default
\tkzpicto<rotate=-90>{bullseye} %default (rotate)
\tkzpicto[listcolors={teal,orange,lime},color]{bullseye} %with 4 levels
```



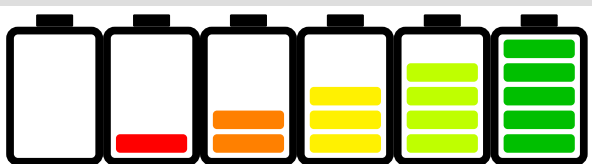
2.7 Battery

```
\tkzpicto%
  [height=...,maincolor=...,barcolor=...,flip=TF,%
  scale=...,shaded=TF, (d)strut=...]
  <tikz options>
  {battery=nb/nblevels}
```

```
\Huge
\tkzpicto{battery} %default
\tkzpicto[flip]{battery} %default (flip)
\tkzpicto{battery=1} %custom
\tkzpicto[flip,scale=0.55]{battery=1} %custom flip scale
\tkzpicto[barcolor=auto]{battery=3/9} %autocolor
\tkzpicto[maincolor=gray,barcolor=olive]{battery=7/8} %custom color
```



```
\xintFor* #1 in {\xintSeq{0}{5}}\do{%
  \pictobattery[height=2cm,barcolor=auto]{#1/5}%
}
```



2.8 Skills

```
\tkzpicto%
  [height=...,colors=...,hoffset=...,voffset=..., (d)strut=...]
  <tikz options>
  {skills=nb/nblevels}
```

```
\Huge
\tkzpicto{skills} %default
\tkzpicto{skills=2} %custom
\tkzpicto[voffset=0.4]{skills=1/4} %custom
\tkzpicto[colors=blue/red]{skills=5/6} %custom color
```




```

\Huge
\pictoskillsgreen
\pictoskillsorange
\pictoskillsred

```

%alias for g1/3
%alias for o2/3
%alias for r3/3



2.9 Pill

```

\tkzpicto%
[height=...,colors=...,offset=..., (d)strut=...]
<tikz options>
{pill=nb/nblevels}

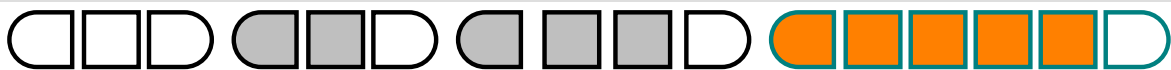
```

```

\Huge
\tkzpicto{pill}
\tkzpicto{pill=2}
\tkzpicto[offset=0.2]{pill=3/4}
\tkzpicto[colors=teal/orange]{pill=5/6}

```

%default
%custom
%custom
%custom color



2.10 TrafficLight

```

\tkzpicto%
[height=...,maincolor=...,listcolors=...,borders=TF, (d)strut=...]
<tikz options>
{traffic=levels}

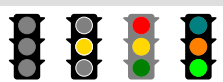
```

```

\Huge
\tkzpicto{traffic}
\tkzpicto[borders]{traffic=2}
\tkzpicto[maincolor=gray]{traffic=123}
\tkzpicto[listcolors={teal,orange,green}]{traffic=123}

```

%default
%custom
%custom
%custom color



2.11 MiniCalendar

```

\tkzpicto%
[height=...,color=...,daycolor=...,monthcolor=..., (d)strut=...]
<tikz options>
{calendar=day/month}

%styles tikz for month/day
\tikzset{minicalmonth/.style={%
    font=\sffamily\bfseries,\minictikzcalendarcolmois}%
}
\tikzset{minicalday/.style={%
    font=\sffamily\bfseries,\minictikzcalendarcoljour}%
}

```

```

\Huge
\tkzpicto{calendar=13/march} %default
\tkzpicto[color=olive]{calendar=13/march} %custom color
\tkzpicto[color=red,daycolor=red]{calendar=25/dec.} %custom colors

```



2.12 Clippy

```

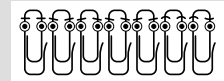
\tkzclippy%
[height=...,color=...,eyecolor=...,ratio=...,rotate=..., (d)strut=...]
<tikz options>
{clippy=style}

```

```

%styles
\Huge
\pictoclippy%
\pictoclippy[style=angry]%
\pictoclippy[style=happy]%
\pictoclippy[style=anghappy]%
\pictoclippy[style=happangry]%
\pictoclippy[style=surprised]%
\pictoclippy[style=confused]%

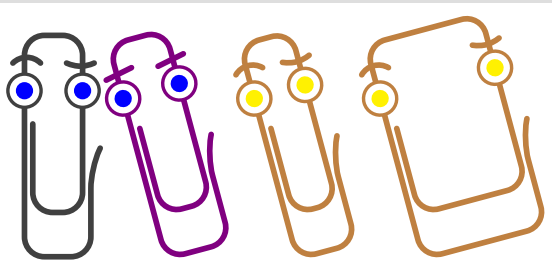
```



```

%gallery
\pictoclippy%
[height=3cm,style=confused,color=darkgray,eyecolor=blue]%
\pictoclippy%
[height=3cm,style=happangry,color=violet,rotate=15,eyecolor=blue]%
\pictoclippy%
[height=3cm,style=confused,color=brown,rotate=15,eyecolor=yellow,ratio=0.2]%
\pictoclippy%
[height=3cm,style=confused,color=brown,rotate=15,eyecolor=yellow,ratio=0.5]%

```



2.13 Dball

```

\tkzpicto%
[height=...,maincolor=...,starcolor=..., (d)strut=...]
<tikz options>
{dball=nb} %nb <= 10

```

```

\Huge
\tkzpicto{dball=4} %default
\tkzpicto[maincolor=yellow]{dball=6} %custom color
\tkzpicto[maincolor=teal,starcolor=yellow]{dball=1} %custom colors

```



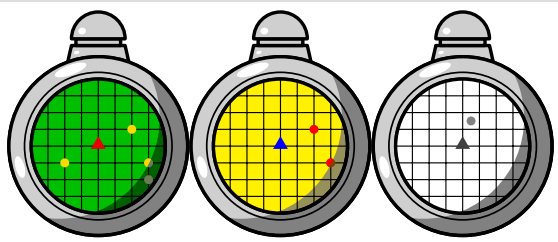
2.14 Dball radar

```
\pictoradardball  
[height=...,bgcolor=...,markcolor=...,ballcolor=..., (d)strut=...,bw=TF]  
<tikz options>  
{coordinates x1/y1,x2/y2,...}
```

```
{\Huge q\pictoradardball{}B}
```



```
\pictoradardball[height=3cm]{2/1,-2/-1,3/-2,3/-1}%  
\pictoradardball[height=3cm,bgcolor=yellow,markcolor=blue,ballcolor=red]%  
{2/1,3/-1}%  
\pictoradardball[height=3cm,bw]{0.5/1.5}
```



3 Difficulty levels

3.1 Macros

```
%generic macro (fontawesome for example)  
\difficultylevels%  
[opacity=...,hoffset=...,swap=TF,size=...]  
{symbol}%  
{level/nblevels}
```

```
%usepackage{twemojis}  
\twdifficultylevels%  
[opacity=...,hoffset=...,swap=TF,size=...]  
{tweoji code}%  
{level/nblevels}
```

3.2 Examples

```
\difficultylevels[size=\large]{\faHeart}{1}
```



```
\difficultylevels[size=\large,swap]{\faHeart}{1}
```



```
\twdifficultylevels[hoffset=1mm,size=\Huge,opacity=0.25]{snake}{2/6}
```



4 Stamps

4.1 Macro (1)

```
%normal positionning
\pictostamp%
[radius=...,color=...,rotate=...,font=...,starsfilled=TF,strut=...,alt=TF]%
<tikz options>
{text}

%[strut=...] is for vphantom of text ^_^
```

```
%absolute positionning
\pictostamp*%
[radius=...,color=...,rotate=...,font=...,starsfilled=TF,strut=...,alt=TF]%
<shift position>
{text}

%[strut=...] is for vphantom of text ^_^
```

4.2 Macro (2)

```
%normal positionning
\pictosmallstamp%
[keys]%
<tikz options>
{text}
```

```
%absolute positionning
\pictosmallstamp*%
[keys]%
<shift position>
{top text}
{bottom text}
{logo}
```

```
height          = <global height>
maincolor        = <main color>
toptxtcolor      = <color for top text>
bottomtxtcolor   = <color for bottom text>
logocolor        = <color for logo text>,
inner circle     = <boolean>
rotate           = <rotation>
toptxtfont       = <font for top text>
bottomtxtfont    = <font for bottom text>
reverse bottom   = <boolean for bottom orientation>
image            = <boolean for using image as loo>
logoscale        = <scale for text logo>
fill inner       = <boolean for inner filling>
color            = <global color, override others>
```

4.3 Examples

```
\pictostamp{}%  
\pictostamp[color=blue!50!black,strut=M]{PASSED}
```



```
\pictostamp[radius=1.5cm,rotate=0]{}%
```



```
\pictostamp[radius=1.5cm,rotate=-15,color=red]{CERTIFIED}  
\pictostamp[radius=1.5cm,rotate=-15,color=red,starsfilled]{CERTIFIED}  
\pictostamp[radius=1.5cm,rotate=-15,color=red,alt]{CERTIFIED}  
\pictostamp[radius=1.5cm,rotate=-15,color=red,alt,starsfilled]{CERTIFIED}
```



```
\pictostamp%  
[radius=1cm,font=\ttfamily\bfseries,color=green!50!black]%  
{CONGRATULATIONS}%
```



```
%absolute position  
\pictostamp*%  
[radius=3cm,color=purple,starsfilled,rotate=30]%  
< ([xshift=-2.5cm,yshift=-2.75cm]current page.south) >%  
{CHAPITRE 01}%
```



```
\colorlet{mygreenpython}{green!50!black}
\pictosmallstamp%
  [color=mygreenpython]%keys
  {{\textbullet} Python {\textbullet}}%top
  {inside}%bottom
  {\faPython}%inside
```



```
\pictosmallstamp%
  [image,rotate=-30]%
  {{\textbullet}~Cédric~{\textbullet}}%
  {Pierquet}%
  {avatar}%
```



```
\pictosmallstamp%
  [image,rotate=-30,reverse bottom=false]%
  {{\textbullet}~Cédric~{\textbullet}}%
  {P\,i\,e\,l\,q\,u\,e\,t}%for better spacing
  {pfl-ok.pdf}%
```



```
\pictosmallstamp%
  [rotate=0,logoscale=1.1,color=teal,fill inner]%
  {LaTeX}%
  {inside}%
  {\faStar}%
```



```
\pictosmallstamp*%
  [%
    height=6cm,maincolor=brown,toptxtcolor=teal,bottomtxtcolor=gray,%
    toptxtfont=\bfseries\sffamily,bottomtxtfont=\ttfamily
  ]%
  < ([xshift=-4cm,yshift=6cm]current page.south east) >%
  {{\openmoji[height=auto]{cactus}}TOP{\openmoji[height=auto]{cactus}}}%
  {{\openmoji[height=auto]{butterfly}}BOTTOM{\openmoji[height=auto]{butterfly}}}%
  {\openmoji{bullseye}}%
```



5 Alt pictos

5.1 Rings

```
\pictorings%  
  [keys]  
  {tikz options}
```

```
%available keys:  
%height=...  
%strut=...  
%dstrut=...  
%clip bb=...  
%color=boolean
```

```
{\LARGE q\pictorings{ }B}
```



5.2 Colored cube

```
\pictorubcube%  
  [keys]
```

```
%available keys:  
%height=...  
%width=...  
%strut=...  
%empty color=...,  
%rescale=...
```

```
{\LARGE q\pictorubcube{ }B}
```



5.3 Simple progress bar

```
\pictopprogressbar%  
  [keys]%  
  {level, between 0 and 1}
```

```
%available keys:  
%height=...      (auto or dauto or unit)  
%width=...       (unit)  
%strut=...       (samples characters for height=auto)  
%dstrut=...      (samples characters for height=dauto)  
%shade=...       (boolean for fill shading)  
%fill color=...  
%border color=...
```

```
{\LARGE q\pictopprogressbar{40/100}B}
```



5.4 Saiyan haircut

```
\pictogkhair[tikz options]{height/auto/dauto}
```

```
\scalebox{4}[4]{q\pictogkhair{dauto}M}\\
\scalebox{5}[5]{\textcolor{orange}{q\pictogkhair{auto}M}}\\
\textcolor{cyan}{\pictogkhair[rotate=30]{3cm}}
```

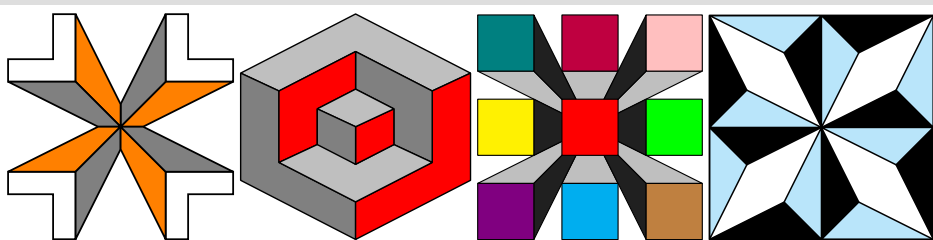


5.5 TriDim picto

```
\tkzthreedimdeco[keys]<tikz options>{height/auto/dauto}
```

```
%keys :
%ext color      = white
%main color     = red
%shadow color   = gray
%shadow alt color = lightgray
%rescale        = 1
%couleurs       = {violet,cyan,brown,yellow,red,green,teal,purple,pink}
%strut          = {M}
%dstrut         = {(qM)}
%style         = A
```

```
\tkzthreedimdeco[main color=orange]{3cm}\:%
\tkzthreedimdeco[style=B]{3cm}\:%
\tkzthreedimdeco[style=C]{3cm}\:%
\tkzthreedimdeco[style=D,main color=cyan!25]{3cm}
```

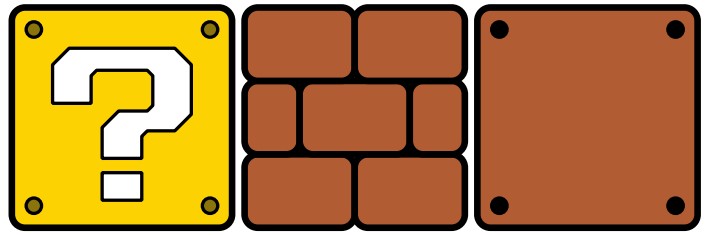


5.6 Blocks

```
\tkzquestionblock[keys]<tikz options>{height/auto/dauto}
\tkzbrickblock[keys]<tikz options>{height/auto/dauto}
\tkzsimpleblock[keys]<tikz options>{height/auto/dauto}
```



```
\tkzquestionblock{3cm}\: %
\tkzbrickblock{3cm}\: %
\tkzsimpleblock{3cm}\: %
```



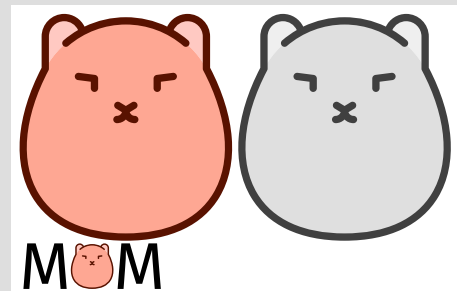
5.7 Kawaii Hamster

```
\tkzhamsterkawaii[keys]<tikz options>{height/auto/dauto}
```

```
%keys:
%rescale      = 1
%strut        = {M}
%dstrut       = {(qM)}
%bw           = false
%ear color    = tkzchibihamsterA
%body color   = tkzchibihamsterB
%border color = tkzchibihamsterC
```

```
\tkzhamsterkawaii{3cm}\: %
\tkzhamsterkawaii[bw]{3cm}

{\Huge M\tkzhamsterkawaii{auto}M}
```



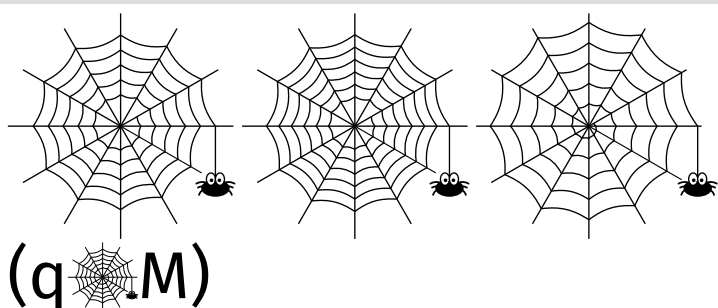
5.8 Spider cabweb

```
\tkzspidercabweb[keys]<tikz options>{height/auto/dauto}
```

```
%keys:
%levels      = 5
%rescale     = 1
%strut       = {M}
%dstrut      = {(qM)}
%inner margin = 0.85
```

```
\tkzspidercabweb{3cm}\:\tkzspidercabweb[levels=6]{3cm}\: %
\tkzspidercabweb[inner margin=0.25]{3cm}

{\Huge (q\tkzspidercabweb{dauto}M)}
```



6 History

v0.20a: TriDim picto + KawaiiHamster + SpiderCabWeb
v0.1.9: Saiyan haircut
v0.1.8: Alt picto (simple progress bar)
v0.1.7: Alt pictos (rings + cube)
v0.1.6: Bugfix with pictostars (raisebox...)
v0.1.5: Inline badge (inspired by tikz-shields) + simple stamp
v0.1.4: (d)strut option for height/depth + bdall + difficulty levels + stamp
v0.1.3: Clippy
v0.1.2: Mini calendar
v0.1.1: Traffic Light
v0.1.0: Initial version