customenvs-tikzpictos

(part of `customenvs`)

Small pictograms, with Ti*k*Z,

for manual or inline insertion.
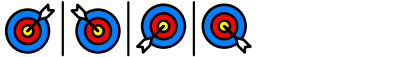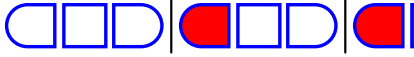
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`customenvs-tikzpictos` is included with `customenvs`, but can be loaded independently !

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

Contents

---

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 `AZERTYUIOPSDFGHKLMWXCVBN` in the current font (`strut` can change it);

- total height and depth are given by total height and depth of `azerty...UIOPQSDFGHJKLMWXCVBN` in the current font (`dstrut` can change it).

1.2 Loading
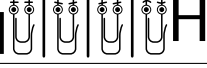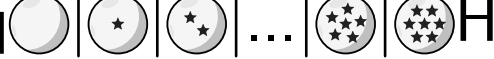
The package loads within the preamble, with `\usepackage{customenvs-tikzpictos}`.
If `customenvs` is loaded, it load itself `customenvs-tikzpictos`
The only loaded packages are `simplekv`, `calc`, `simplekv`, `listofitems`, `xstring`, `xintexpr` and `tikz` (with `shapes.geometric` / `bbox` libraries).
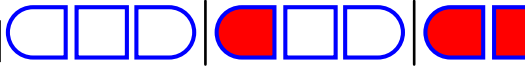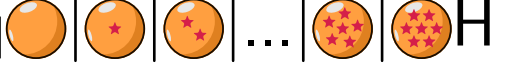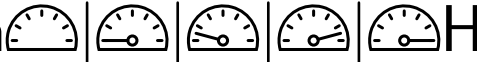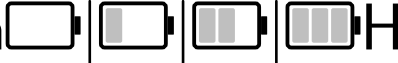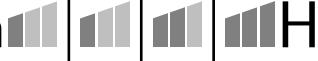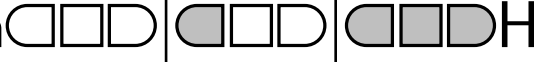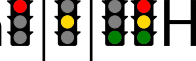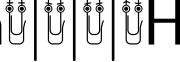
```
\usepackage{customenvs-tikzpictos}
```

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 aug.15 dec.30 feb.14 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 aug. 15	dec. 30	jan. 01 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📅15|📅30|📅14H
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                                          %alias for g1/3
\pictoskillsorange                                         %alias for o2/3
\pictoskillsred                                            %alias for r3/3
```

2.9   Pill

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

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

2.10   TrafficLight

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

```
\Huge
\tkzpicto{traffic}                                         %default
\tkzpicto[borders]{traffic=2}                              %custom
\tkzpicto[maincolor=gray]{traffic=123}                     %custom
\tkzpicto[listcolors={teal,orange,green}]{traffic=123}     %custom color
```

2.11   MiniCalendar

```
\tkzpicto%
  [height=...,color=...,daycolor=...,monthcolor=...,(d)strut=...]
  <tikz options>
  {calendar=day/month}
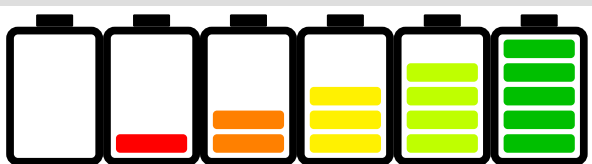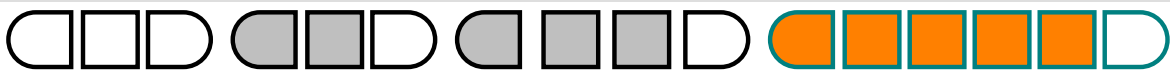
%styles tikz for month/day
\tikzset{minicalmonth/.style={%
    font=\sffamily\bfseries,\minictikzcalendarcolmois}%
}
\tikzset{minicalday/.style={%
    font=\sffamily\bfseries,\minictikzcalendarcoljour}
}
```

```
\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
```

```
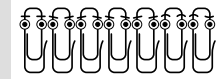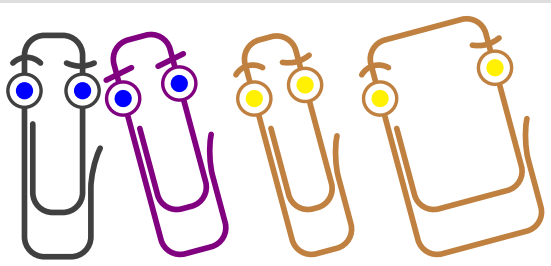
### 2.14 Dball radar

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

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

qB

```
\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}
```
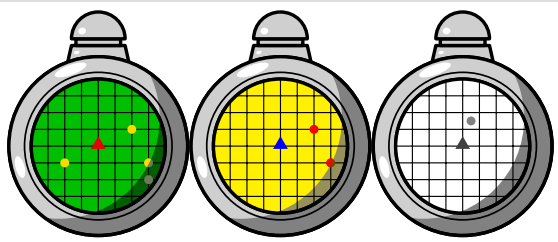

3 Difficulty levels

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 Stamp

4.1 Macros

```
%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]%
  <tikz options>
  {text}

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

4.2 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=3.75cm]current page.south) >%
  {CHAPITRE 01}%
```

5 History

`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