

customenvs-tikzpictos

(part of customenvs)

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






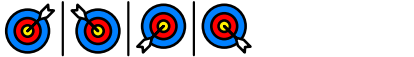



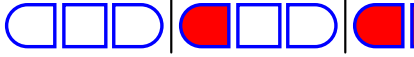




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<https://github.com/cpierquet/latex-packages/tree/main/customenvs>

<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 `AZERTYUJTOPSDFGHKLMWXCVBN` 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



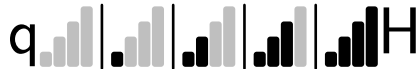






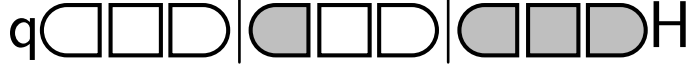


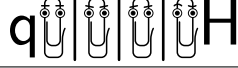

The package loads within the preamble, with `\usepackage{customenvs-tikzpictos}`.










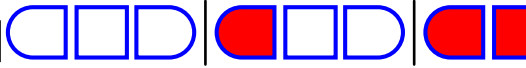



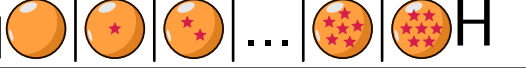
If `customenvs` is loaded, it load itself `customenvs-tikzpictos`










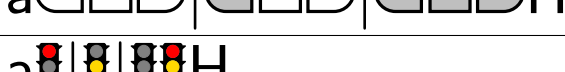

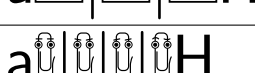

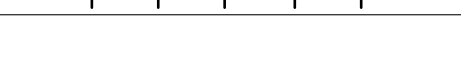
The only loaded packages are `simplekv`, `calc`, `simplekv`, `listofitems`, `xstring`, `xintexpr` and `tikz` (with `shapes.geometric` / `bbox` / `3d` libraries).





























































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

1.3 Gallery

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

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%
[key]
<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
```



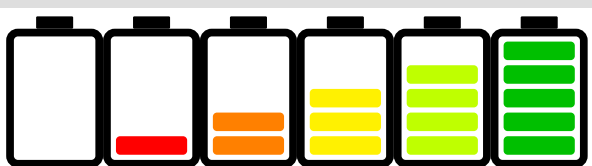
2.7 Battery

```
\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

```

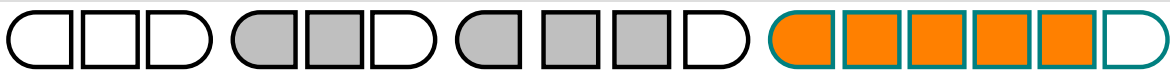
\tkzpicto%
 [height=...,colors=...,offset=...,(d)strut=...]
 <tikz options>
 {pill=nb/nblevels}

```

```

\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

```

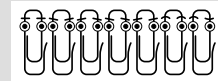
\tkzclippy%
  [height=...,color=...,eyecolor=...,ratio=...,rotate=...,(d)strut=...]
  <tikz options>
  {clippy=style}

```

```

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

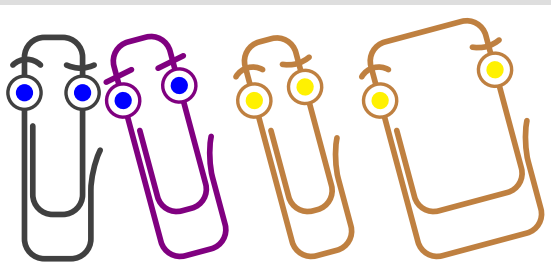
```



```

%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

```



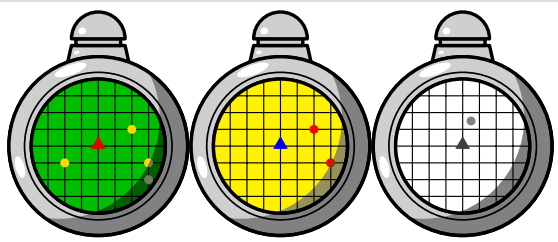
2.14 Dball radar

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

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



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

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

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

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

4.2 Macro (2)

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

```
%absolute positioning
\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]{}%
```



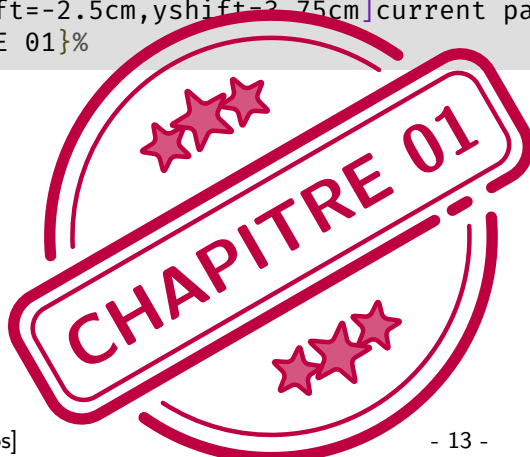
```
\pictostamp[radius=1.5cm, rotate=-15, color=red]{CERTIFIED}  
\pictostamp[radius=1.5cm, rotate=-15, color=red, starsfilled]{CERTIFIED}  
\pictostamp[radius=1.5cm, rotate=-15, color=red, alt]{CERTIFIED}  
\pictostamp[radius=1.5cm, rotate=-15, color=red, alt, starsfilled]{CERTIFIED}
```



```
\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,temptxtcolor=teal,bottomtxtcolor=gray,%
    temptxtfont=\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}

```

```

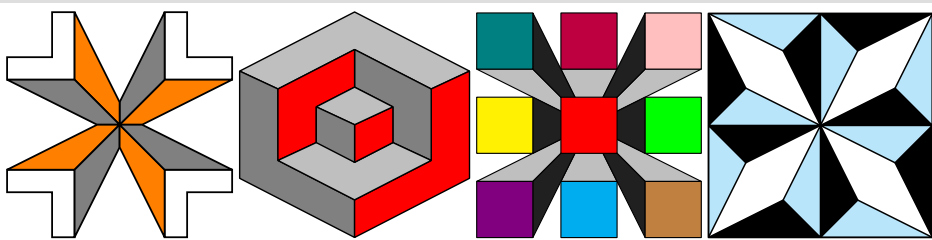
%keys :
%ext color      = white
%main color     = red
%shadow color  = gray
%shadow alt color = lightgray
%rescale       = 1
%couleurs      = {violet,cyan,brown,yellow,red,green,teal,purple,pink}
%strut         = {M}
%dstrut        = {(qM)}
%style         = A

```

```

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

```



5.6 Blocks

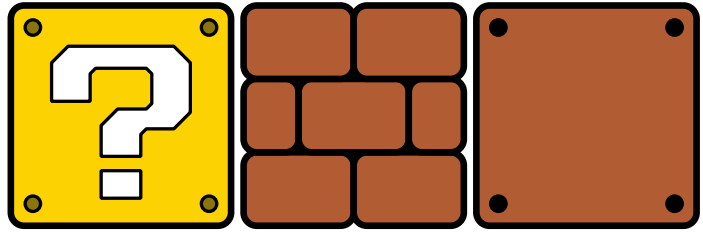
```

\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}\:%
```



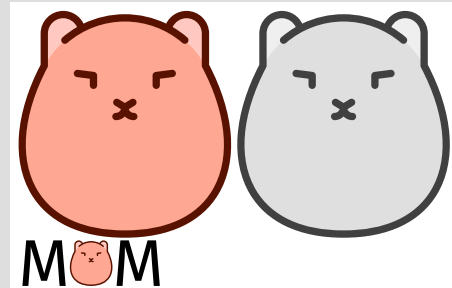
5.7 Kawaii Hamster

```
\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}
```



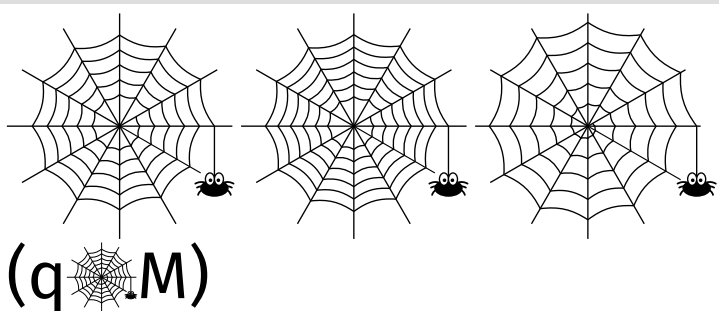
5.8 Spider cabweb

```
\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)}
```

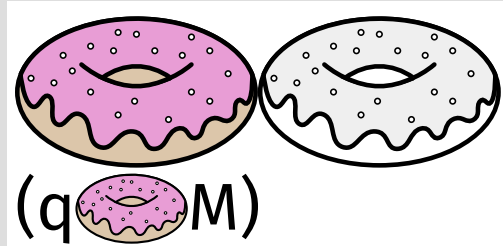


5.9 Donut

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

```
%keys:
%rescale      = 1
%strut        = {M}
%dstrut       = {(qM)}
%main color   = tkzdonutpastry
%deco color   = tkzdonutjelly
%decorations  = true
%bw           = false
```

```
\tkzdonut{2cm}\tkzdonut[bw]{2cm}
{\Huge (q\tkzdonut{dauto}M)}
```

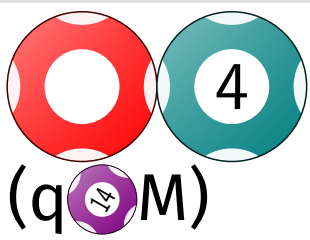


5.10 Pollball

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

```
%keys:
%font         = font=\sffamily
rescale       = 1
strut         = {M}
dstrut        = {(qM)}
color         = red
number        = {}
xscale        = 1 (for label !)
rotate        = 0
```

```
\tkzpoolball{2cm}\tkzpoolball[color=teal,number=4]{2cm}
{\Huge (q\tkzpoolball[color=violet,number=14,xscale=0.75,rotate=60]{dauto}M)}
```



6 History

v0.20b: Donut + Poolball

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