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

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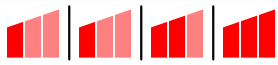
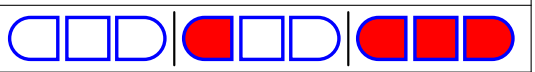
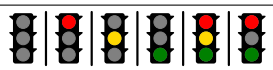
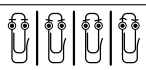
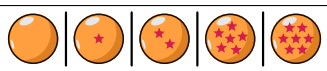
customenvs-tikzpictos is included with customenvs, but can be loaded independently !

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

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

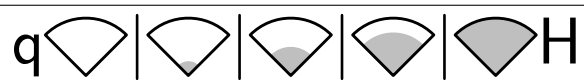
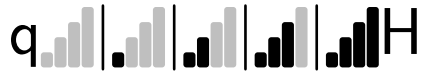
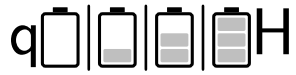
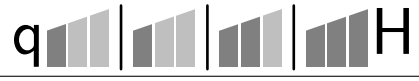
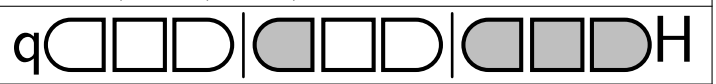
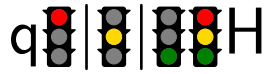
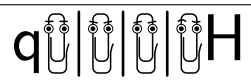
- total height and depth are given by total height and depth of `azerty...UIOPQSDFGHJKLMWXCVBN` in the current font (`dstrut` can change it).

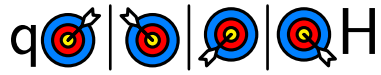
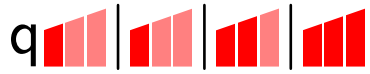
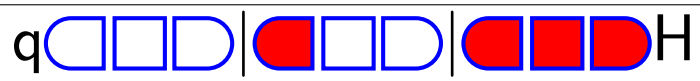
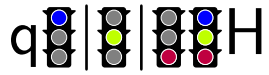
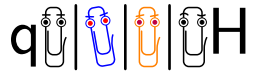
1.2 Loading

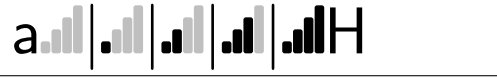
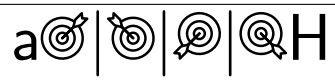
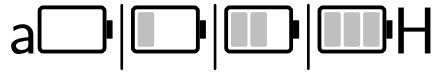
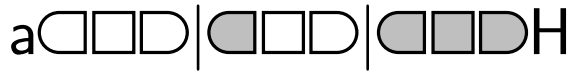
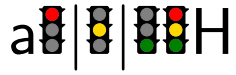
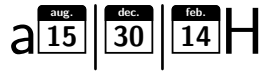
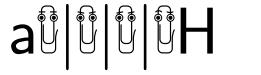
The package loads within the preamble, with `\usepackage{customenvs-tikzpictos}`.
If `customenvs` is loaded, it load itself `customenvs-tikzpictos`
The only loaded packages are `simplekv`, `calc`, `simplekv`, `listofitems`, `xstring`, `xintexpr` and `tikz` (with `shapes.geometric / bbox / 3d` libraries).

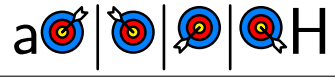
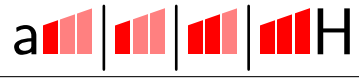
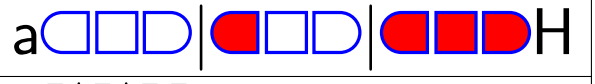
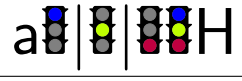
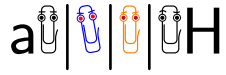
```
\usepackage{customenvs-tikzpictos}
```

1.3 Gallery

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

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

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

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

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}
```

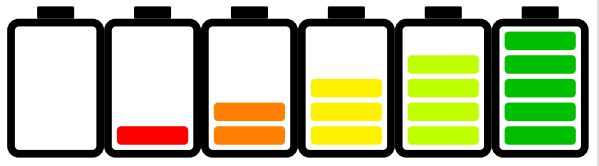
```
\Huge
\tkzpicto{bullseye}                                          %default
\tkzpicto<rotate=-90>{bullseye}                              %default (rotate)
\tkzpicto[listcolors={teal,orange,lime},color]{bullseye}     %with 4 levels
```

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}%
}
```

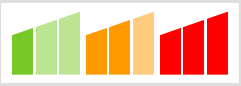


2.8 Skills

```
\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
```

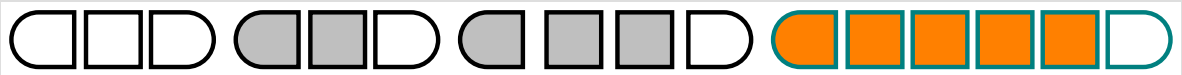
```
\Huge
\pictoskillsgreen                                    %alias for g1/3
\pictoskillsorange                                   %alias for o2/3
\pictoskillsred                                      %alias for r3/3
```



2.9 Pill

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

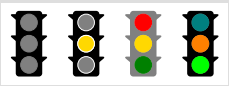
```
\Huge
\tkzpicto{pill}                                      %default
\tkzpicto{pill=2}                                    %custom
\tkzpicto[offset=0.2]{pill=3/4}                      %custom
\tkzpicto[colors=teal/orange]{pill=5/6}              %custom color
```



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

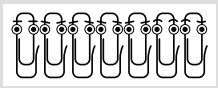
```
\tkzpicto%
  [height=...,color=...,daycolor=...,monthcolor=...,(d)strut=...]
  <tikz options>
  {calendar=day/month}

%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
```

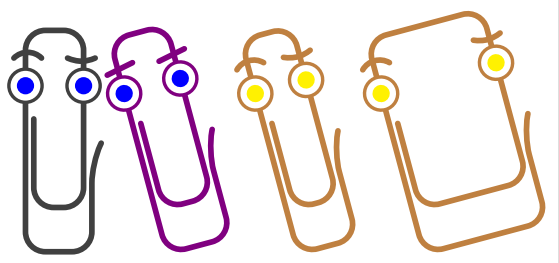
2.12 Clippy

```
\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
```

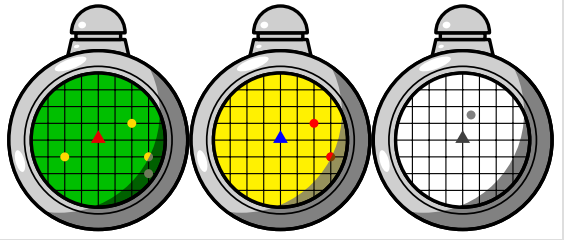
2.14 Dball radar

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

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

q 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\,r\,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

```
\pictoprogressbar%
  [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\pictoprogressbar{40/100}B}
```

5.4 Saiyan haircut

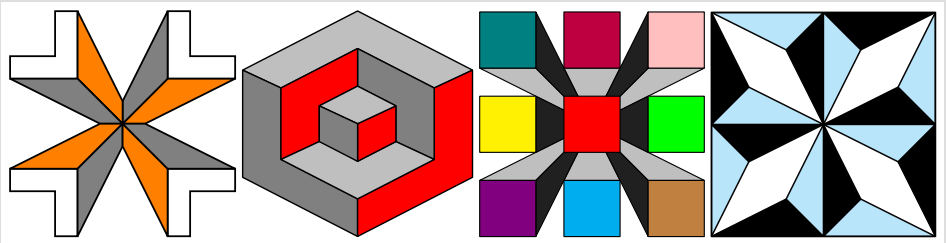
```
\pictogkhair[tikz options]{height/auto/dauto}
```

```
\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
```

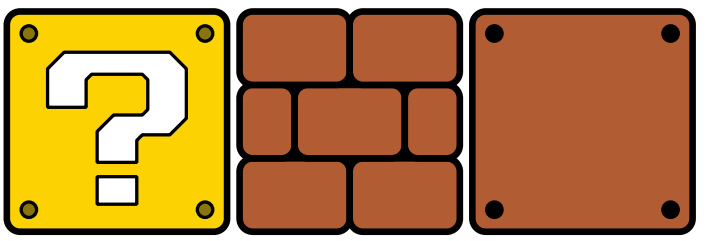
```
\tkzthreedimdeco[main color=orange]{3cm}\:%
\tkzthreedimdeco[style=B]{3cm}\:%
\tkzthreedimdeco[style=C]{3cm}\:%
\tkzthreedimdeco[style=D,main color=cyan!25]{3cm}
```



5.6 Blocks

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

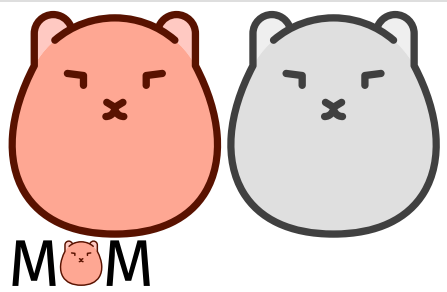
```
\tkzquestionblock{3cm}\:%
\tkzbrickblock{3cm}\:%
\tkzsimpleblock{3cm}\:%
```



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
```

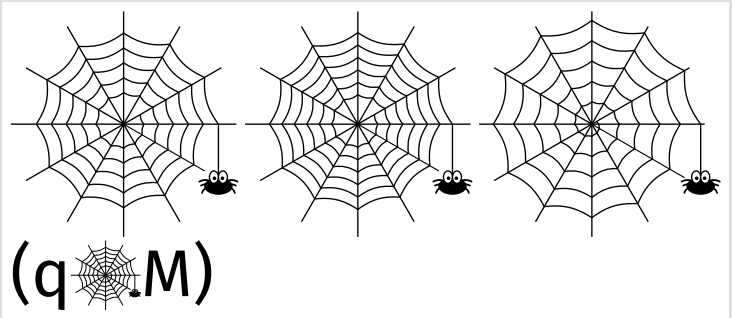
```
\tkzhamsterkawaii{3cm}\:%
\tkzhamsterkawaii[bw]{3cm}

{\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
```

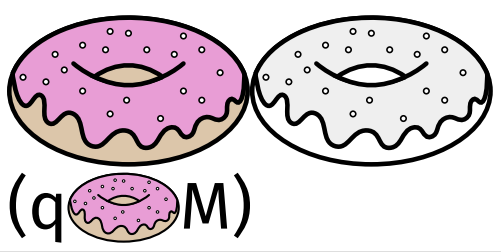
```
\tkzspidercabweb{3cm}\:\tkzspidercabweb[levels=6]{3cm}\:%
\tkzspidercabweb[inner margin=0.25]{3cm}

{\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
```

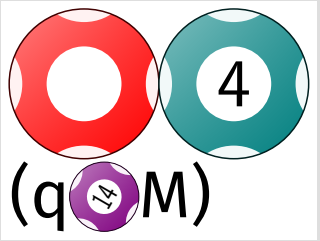
```
\tkzdonut{2cm}\tkzdonut[bw]{2cm}

{\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
```

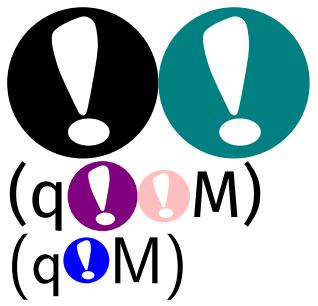
```
\tkzpoolball{2cm}\tkzpoolball[color=teal,number=4]{2cm}

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



5.11 Exclamation

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

%keys:
%rescale        = 1
%strut           = {M}
%dstrut          = {(qM)}
```

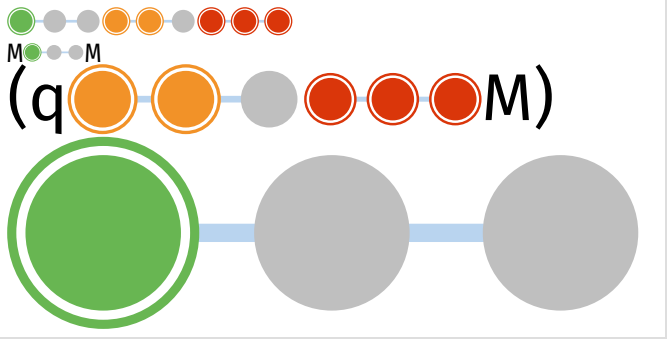
```
\tkzexcla{2cm}\tkzexcla<teal>{2cm}

{\Huge (q\tkzexcla<violet>{dauto}\tkzexcla[rescale=0.75]<pink>{dauto}M)}

{\Huge\sffamily (q\tkzexcla<blue>{auto}M)}
```



5.12 Alt levels

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

%keys:
%rescale        = 1
%strut          = {M}
%dstrut         = {(qM)}
%height         = dauto(auto/dim)
```

```
\tkzllslevels{1}\tkzllslevels{2}\tkzllslevels{3}

\texttt{M\tkzllslevels[height=auto]{1}M}

{\Huge (q\tkzllslevels{2}\tkzllslevels[rescale=0.75]{3}M)}

\tkzllslevels[height=1in]{1}
```



6 History

v0.20d: LLS levels
v0.20c: Excalamation + Bugfixes
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