# the TIKZ-PAGE package

Sébastien Gross < seb chezwam org>

This file describes version 1.1 (2020/06/30)

### Contents

1	Introduction	1
2	Usage	1
3	Implementation	4
	Changes 4.1 Version 1.1	11 11

### 1 Introduction

There are many ways to embelish a page with LATEX. One of the most easiest way is to use fancyhdr which allows to redefine both headers and footer. The geometry package is also useful to setup correct margins. If you need to put some background materials this might become painful, especially if you need your background to reach the page borders.

There are some trick that help you in this task. tikz-page helps you in this way by the use of semeral mechanisms. Either you can use plain tikz picture on the background of your page, or use the  $\langle textpos \rangle$  option which enables absolute textpos positionning. Each method has its benefits and nuisances. With tikz you have to compile your document twice (which can be painful while you are designing your page layout) and with textpos you can get some incompatibility issues (please refer to textpos documentation).

tikz-page is trying to give you best of both world by creating a new page object in a tikzpicture with many anchors. So you can easily place your page material at its correct position.

## 2 Usage

Basically you only need to add \usepackage{tikz-page} at the begining of your document. Then you have to declare a \tikzpagelayout command which is executed inside the background tikzpicture. Thus you can access the page

tikz-page 1.1 (2020/06/30)

shape and all its anchors. For example the following simple example add the page number to the footer center:

If you want to simulate the default fancyhdr behaviour you can define the \tikzpagelayout as following:

### A minimum working example:

```
\documentclass{article}
\usepackage{tikz-page}
\usepackage{lipsum}
\newcommand{\tikzpagelayout}{
  \tpshowframes
  \tikzpageputanchors
}
\pagestyle{plain}
\begin{document}
\lipsum
\end{document}
```

Lower sparse does its next, connectative adipticing dit. Ct pursue of textilization vs. placet are, adoptiving vitars, like. Conclute defection great manufact. Name are liberon, nominary out, connections at a voluntiate a simple continuation of the continuation of

Nam dui ligula, fringilla a, enisend solales, sollicitudin vel, visi. Mo austro lexem non junto. Nam lacen libero pretium at, boltori vista, utricis tellus. Donce aliquet, tottor sed accumson bibendum, erat ligula aliquet mage vitae orname colie metas a mil. Morbi ace orci et alia harderit mollic. Superdiret in this comarco dosi accumsos metas and morbi ace orci et alia harderit mollic. Superdiret in ut massa. Cras nee ante. Pellentosque a milla. Cum sociis natoque penatifusi ut massa. Cras nee ante. Pellentosque a milla. Cum sociis natoque penatifusi maggis dis particient montes, moscitur rificules sums. Aliquena tineichium tu Nulla sulloanada neetilite e filma. Dance folis cent comune non voltarita. Nulla mudoanada neetilite e filma. Dance folis cent comune non voltarita di

Nullia malesanska portitior diam. Donce fidis cert, congue man, veldapria de intacidant trictique, liber. Venname vivere famentum fidis. Donce monume transitation de la menta de la male de la male de la menta del menta del

Quisque ullamocoper placerat ipsum. Cras nibh. Morbi vel justo vitus hentincidunt ultricos. Lorem ipsum dobo sit amart, consectutor adipicing elli. I hac habitasse platen dictumet. Integer tempus conveilis augus. Estam facilis-Nume elementum framentum vid. Aersenu placerat. Ut imperdite, estim see Nume vitus (and produce and produce and produce and produce and Nume vitus tortor. Prois tempos nibh sit amet nisl. Vivanuss quis tortor vita risus porta velderila.

Face manies Vedichelm heten solb at Jertas. Sed blacedum, mila a Grossmerpe, Novel Hurchies uffine, av ventra der wich wir dat Vedichel dim. Allegman pellentengen, sange quis segistis posseres, trapis hene competite dem der vertra Vederfallen geritten Vederfallen Sed vertra der vertra

laoreet vitae, arcu. Aemoan faucibus pede eu ante. Praesent enim elit, rutru at, moléstie not., nommany vol., idd. Ul fectus eros, maleumals sit anat, é, un attivide sucher, pede leven egstates duit, et covasile elit erat set anlais. Don latticies sucher, pede leven egstass duit, et covasile elit erat set anlais. Don lactus. Curabitur et nunc. Aliquan dolor ofio, commodo petium, utrici non, pharteria in, volti. Integer acre est, nonumqui in, fermestum faucib

# tikz-page 1.1 (2020/06/30)

### A more complex example[1]:

```
\documentclass{article}
\usepackage{tikz-page}
\usepackage{lipsum}
\definecolor{halfgray}{gray}{0.55}
\newcommand\anglei{-45}
\newcommand\angleii{45}
\newcommand\angleiii{45}
\newcommand\angleiii{225}
\newcommand\angleiv{135}
\newcommand{\tikzpagelayout}{
    \coordinate (aux1) at ([yshift=-15pt]page.northwest); \coordinate (aux2) at ([yshift=-410pt]page.northwest); \coordinate (aux3) at ([xshift=4.5cm]page.northwest); \coordinate (aux4) at ([yshift=-150pt]page.northwest); \renewcommand\anglei{-135} \renewcommand\angleii{135} \renewcommand\angleii{135}
         \renewcommand\angleiii{-45}
         \renewcommand\angleiv{45}
     \begin{scope} [halfgray!40,line width=12pt,rounded corners=12pt] \draw (aux1) -- coordinate (a) ++(\angleiii:5) -- ++(\anglei:5.1)
        \end{scope}
    \end{scope}
\draw[halfgray,line width=8pt,rounded corners=8pt,shorten <= -10pt]
(aux4) -- ++(\angleii:0.8) -- ++(\anglei:0.8);
\begin{scope}[halfgray!70,line width=6pt,rounded corners=8pt]
\draw[shorten <= -10pt] (aux2) -- ++(\angleii:3) coordinate[pos=0.45]
\( \to (c) -- ++(\angleii:3.1);
\draw (aux2) -- (c) -- ++(\angleiv:2.5) -- ++(\angleii:2.5) --
\( \to ++(\anglei:2.5) coordinate[pos=0.3] (d);
\draw (d) -- +(\angleii:1);
\end{scope}
\end{scope}
\]</pre>
    \end{scope}
\pagestyle{plain}
\begin{document}
\lipsum
\end{document}
```

### 3 Implementation

\NeedsTeXFormat{LaTeX2e} \ProvidesPackage{tikz-page}[\pkgfiledate\space (v\pkgfileversion)]

The  $\langle textpos \rangle$  option can be used if you want to use textpos  $\langle overlay \rangle$  option instead of current page to position the page layout. Beware that textpos with (overlay) option maybe incompatible with some other packages. On the other hand tikz current page requires at least 2 compilation to work correctly. Thus you might want to use \(\lambda textpos\rangle\) at conception time and remove this option for your final build or if you have incompatibility issues.

```
\ProcessOptions
\if@tp@use@textpos
\RequirePackage[absolute] {textpos}
```

- \RequirePackage{tikz}
  \usetikzlibrary{plotmarks,calc,shapes,positioning,decorations.text}
  \RequirePackage{graphicx}
  \RequirePackage{calc} 10 11

tikz-page 1.1 (2020/06/3

All margin sizes are defined in  $\ensuremath{\texttt{0tp@left@margin}}$ ,  $\ensuremath{\texttt{0tp@top@margin}}$ ,  $\ensu$ 

```
14 \newlength{\@tp@left@margin}
15 \newlength{\@tp@right@margin}
16 \newlength{\@tp@top@margin}
17 \newlength{\@tp@bottom@margin}
```

### $\colon delta definition \colon delta del$

Generate a  $\tp@\langle block\ name\rangle@\langle length\ name\rangle$  length. This command is intended to be only used to create block length defined below.

```
18 \newcommand\@tp@create@length[2]{%
19 \expandafter\newskip\csname tp@#1@#2\endcsname%
20 }%
```

For each standard blocks in the page (page, body, marginpar, header, footer) and additionnal blocks (top, right, bottom, left), 6 lenths are computed in order to define their anchors. Each length is defined using the \@tp@create@length^\to P.4 macro.

### $\time {\code} \$

Execute  $\langle odd\ page\ even\ code \rangle$  on odd pages and  $\langle even\ page\ code \rangle$  on even ones.

```
25 \newcommand{\tpflip}[2]{\ifodd\thepage#1\else#2\fi}
```

### \tp@compute@margins

This is where the magic happens. This command sets all  $\tp@\langle block name \rangle @\langle length name \rangle$  lengths.

```
def\tp@compute@margins{/
    \setlength{\tp@page@xmin}{0pt}//
    \setlength{\tp@page@ymin}{0pt}//
    \setlength{\tp@page@ymin}{0pt}//
    \setlength{\tp@page@ymin}{0pt}//
    \setlength{\tp@page@ymax}{\paperheight}//
    \setlength{\tp@page@ymax}{\paperheight}//
    \setlength{\tp@page@ymid}{\dimexpr(\tp@page@xmin+\tp@page@xmax)/2\
    \rightarrow relax}//
    \setlength{\tp@page@ymid}{\dimexpr(\tp@page@ymin+\tp@page@ymax)/2\
    \rightarrow relax}//
}
```

```
\setlength\@tp@left@margin{\dimexpr(1in+\hoffset+\tpflip{\|
34
        oddsidemargin}{\evensidemargin})\relax}%\setlength\@tp@right@margin{\dimexpr(\paperwidth-\@tp@left@margin-\_
35
             textwidth)\relax}%
        \setlength\@tp@top@margin{\dimexpr(1in+\voffset+\topmargin+\|
36
        headheight+\headsep)\relax}%
\setlength\@tp@bottom@margin{\dimexpr(\paperheight-(\textheight+\)
37
             @tp@top@margin))\relax}%
       38
39
40
           relax}%
        \setlength\tp@body@ymax{\dimexpr(\tp@page@ymax-\@tp@top@margin)\relax}%\setlength\tp@body@ymin{\dimexpr\tp@body@ymin+\@tp@bottom@margin\
42
43
        \setlength\tp@body@ymid{\dimexpr(\tp@body@ymin+(\tp@body@ymax-\|
44
         → tp@body@ymin)/2)\relax}%
45
        %% Margin computation
46
47
48
        \tpflip{%
           \setlength\tp@marginpar@xmin{\dimexpr\tp@body@xmax+\marginparsep\_
49
          \setlength\tp@marginpar@xmax{\dimexpr\tp@marginpar@xmin+\|
50
           → marginparwidth\relax} %
51
           \setlength\tp@marginpar@xmax{\dimexpr\tp@body@xmin-\marginparsep\_
52
           \rightarrow \hspace{0.2cm} \texttt{relax} \% \\ \texttt{\setlength} \texttt{\tp@marginpar@xmin} \{\texttt{\dimexpr} \texttt{\tp@marginpar@xmax-\color=100}\} \\
53
           }% \setlength\tp@marginpar@xmid{\dimexpr((\tp@marginpar@xmax+\_
55
            tp@marginpar@xmin)/2)\relax}%
        \setlength\tp@marginpar@ymax{\tp@body@ymax} \setlength\tp@marginpar@ymin{\tp@body@ymin} \
57
58
        \setlength\tp@marginpar@ymid{\tp@body@ymid} %
59
60
61
        \setlength\tp@header@xmax{\tp@body@xmax} //
62
       63
64
65
66
           2)\relax}%
68
        %% footer
69
70
       //
setlength\tp@footer@xmax{\tp@body@xmax} //
\setlength\tp@footer@xmin{\tp@body@xmin} //
\setlength\tp@footer@xmid{\tp@body@xmid} //
\setlength\tp@footer@ymin{\dimexpr\tp@body@ymin-\footskip\relax} //
\setlength\tp@footer@ymax{\tp@footer@ymin} //

71
72
73
74
75
76
        \setlength\tp@footer@ymid{\dimexpr((\tp@footer@ymax+\tp@footer@ymin)/
             2)\relax} %
77
78
           blocks%
79
       %%
\setlength\tp@top@xmin{\tp@page@xmin} %
\setlength\tp@top@xmax{\tp@page@xmax} %
\setlength\tp@top@xmid{\dimexpr((\tp@top@xmax+\tp@top@xmin)/2)\relax} %
\setlength\tp@top@ymin{\tp@body@ymax} %
\setlength\tp@top@ymax{\tp@page@ymax} %
\setlength\tp@top@ymid{\dimexpr((\tp@top@ymax+\tp@top@ymin)/2)\relax} %
\%##
80
81
82
83
84
85
86
87
        \setlength\tp@bottom@xmin{\tp@page@xmin} %
```

```
88
89
             2)\relax}%
        \setlength\tp@bottom@ymin{\tp@page@ymin}%\setlength\tp@bottom@ymax{\tp@body@ymin}%\setlength\tp@bottom@ymid{\dimexpr((\tp@bottom@ymax+\tp@bottom@ymin)/_
91
92
             2)\relax}%
93
        ""
setlength\tp@left@xmin{\tp@page@xmin}"
\setlength\tp@left@xmax{\tp@body@xmin}";"
94
95
        \setlength\tp@left@xmid{\dimexpr((\tp@left@xmax+\tp@left@xmin)/2)\|
96
        relax}%
\setlength\tp@left@ymin{\tp@body@ymin}%
\setlength\tp@left@ymax{\tp@body@ymax}%
\setlength\tp@left@ymid{\dimexpr((\tp@left@ymax+\tp@left@ymin)/2)\_
97
98
            relax}%
        100
102
103
        \setlength\tp@right@ymin{\tp@body@ymin} %\setlength\tp@right@ymax{\tp@body@ymax} %\setlength\tp@right@ymid{\dimexpr((\tp@right@ymax+\tp@right@ymin)/2)\|
104
105
106
```

### 

Generate all 9 anchors (northwest, north, northest, west, center, east, southwest, south, southest) for  $\langle block \ name \rangle$ .

```
107
108
                                tp@#1@ymax\endcsname} %
                    \anchor{#1 south}{\pgf@x=\csname tp@#1@xmid\endcsname \pgf@y=\csname
                    tp@#1@ymin\endcsname} %
\anchor{#1 west}{\pgf@x=\csname tp@#1@xmin\endcsname \pgf@y=\csname
110
                                tp@#1@ymid\endcsname} %
                    \anchor{#1 northwest}{\pgf@x=\csname tp@#1@xmin\endcsname \pgf@y=\csname
111
                                tp@#1@ymax\endcsname}
                    112
                    \rightarrow tp0#10ymin\endcsname}% \anchor{#1 east}{\pgf0x=\csname tp0#10xmax\endcsname \pgf0y=\csname 
113
                                tp@#1@ymid\endcsname}%
                    114
                                tp@#1@ymax\endcsname} %
                    \anchor{#1 southeast}{\pgf@x=\csname tp@#1@xmax\endcsname \pgf@y=\csname
115
                    116
                                tp@#1@ymid\endcsname}%
117 }%
```

```
118 \newcommand\tp@pgfdeclareanchoralias[3]{%
119 \expandafter\def\csname pgf@anchor@#1@#3\expandafter\endcsname
120 \expandafter{\csname pgf@anchor@#1@#2\endcsname}}
```

```
121 \pgfdeclareshape{page}{
122    \backgroundpath{
123    \pgfpathmoveto{\pgfpoint{\tp@page@xmin}{\tp@page@ymin}}
124    \pgfpathlineto{\pgfpoint{\tp@page@xmin}{\tp@page@ymax}}
```

```
\pgfpathlineto{\pgfpoint{\tp@page@xmax}{\tp@page@ymax}}
\pgfpathlineto{\pgfpoint{\tp@page@xmax}{\tp@page@xmin}}
126
                      \pgfpathclose
127
128
                 %% basic anchors
129
                %% basic anchors
\anchor{north}{\pgf@x=\tp@page@xmid \pgf@y=\tp@page@ymax}%
\anchor{south}{\pgf@x=\tp@page@xmid \pgf@y=\tp@page@ymin}%
\anchor{south}{\pgf@x=\tp@page@xmin \pgf@y=\tp@page@ymid}%
\anchor{northwest}{\pgf@x=\tp@page@xmin \pgf@y=\tp@page@ymax}%
\anchor{southwest}{\pgf@x=\tp@page@xmin \pgf@y=\tp@page@ymax}%
\anchor{southwest}{\pgf@x=\tp@page@xmin \pgf@y=\tp@page@ymin}%
\anchor{east}{\pgf@x=\tp@page@xmax \pgf@y=\tp@page@ymax}%
\anchor{southeast}{\pgf@x=\tp@page@xmax \pgf@y=\tp@page@ymax}%
\anchor{southeast}{\pgf@x=\tp@page@xmax \pgf@y=\tp@page@ymax}%
\anchor{southeast}{\pgf@x=\tp@page@xmax \pgf@y=\tp@page@ymin}%
\anchor{center}{\pgf@x=\tp@page@xmax \pgf@y=\tp@page@ymin}%
130
131
132
133
134
135
136
137
                138
139
140
                 %% Body anchors
\@tp@genanchors{body}
142
143
                 \@tp@genanchors{marginpar}
144
                 \@tp@genanchors{header
146
                 \@tp@genanchors{footer}
                 \@tp@genanchors{top}
147
                 \@tp@genanchors{bottom}
148
149
                 \@tp@genanchors{left}
                 \@tp@genanchors{right}
150
151
```

Create a new tpx mark to show anchor location when using  $\texttt{\tikzpageputanchors}^{\to P. 10}$  to display anchors on the page.

```
\newdimen\tp@linewidth
\newdimen\tp@marksize
153
           \setlength\tp@marksize{3pt}
154
          \pgfdeclareplotmark{tpx}
               \setlength\{\tp@linewidth\}\\pgflinewidth\}\\pgflinewidth\}
156
157
              \pgfpathmoveto{\pgfpoint{-\tp@marksize}} {-\tp@marksize}}
\pgfpathmoveto{\pgfpoint{\tp@marksize}} \pgfpathlineto{\pgfpoint{-\tp@marksize}} \pgfpathlineto{\pgfpoint{-\tp@marksize}} \pgfpathlineto{\pgfpoint{\tp@marksize}} \pgfpathlineto{\pgfpoint{\tp@marksize}} \pgfusepathqstroke
158
160
161
162
              \setlength{\pgflinewidth}{\tp@linewidth}
163
164
```

Anchors can be displayed block by block (using \tikzpageputanchorsdefaults, \tikzpageputanchors \tikzpageputanchorsmarginpar, \tikzpageputanchorsheader, \tikzpageputanchorsfooter, \tikzpageputanchorstop, \tikzpageputanchorsright, \tikzpageputanchorsbottom, \tikzpageputanchorsleft) or globally (using \tikzpageputanchors $^{\rightarrow P.10}$ ).

```
\def\tikzpageputanchorsdefaults{
  \foreach \anchor/\placement in {%
    northwest/below right%
166
167
            ,north/below%
,northeast/below left%
169
            ,west/right%
170
            ,center/below%
171
             east/left
172
            ,southwest/above right%
173
            ,south/above%, ,southeast/above left%
175
         } \draw[red,shift=(page.\anchor)] plot[mark=tpx%% my plot mark] coordinates{(0,0)}
176
         node[blue,\placement] {\scriptsize\texttt{(page.\anchor)}};
178
```

```
\def\tikzpageputanchorsbody{
  \foreach \anchor/\placement in {%
  body northwest/below right%
181
182
183
            ,body north/below%
184
185
            ,body northeast/below left%
186
            ,body west/right%
,body center/below%
187
            ,body east/left%
188
            ,body southwest/above right%
189
            ,body south/above%
,body southeast/above left%
\draw[red,shift=(page.\anchor)] plot[mark=tpx%% my plot mark
190
191
192
         coordinates{(0,0)}
193
         node[blue,\placement] {\scriptsize\texttt{(page.\anchor)}};
194
      \def\tikzpageputanchorsmarginpar{
  \foreach \anchor/\placement in {%
198
199
            marginpar northwest/below left%
200
            ,marginpar north/left%
201
202
            ,marginpar northeast/above left%
            ,marginpar west/below%
203
            ,marginpar center/below%
204
            ,marginpar east/above%
             ,marf{marginpar} southwest/below rightm{\%}
206
            ,marginpar south/right%
,marginpar southeast/above right%
207
208
         \draw[red,shift=(page.\anchor)] plot[mark=tpx%% my plot mark] coordinates{(0,0)}
209
210
         node[blue,\placement, rotate=90] {\scriptsize\texttt{(page.\anchor)}};
211
212
213
214
      \def\tikzpageputanchorsheader{
  \foreach \anchor/\placement in {%
   header northwest/above right%
215
216
217
218
            ,header north/above%,header northeast/above left%
219
            ,header west/right%
220
221
             header center/right%
            ,header east/left%
,header southwest/below right%
222
223
             ,header south/below%
             header southeast/below left%
225
         } \draw[red,shift=(page.\anchor)] plot[mark=tpx%% my plot mark] coordinates{(0,0)}
226
227
         node[blue,\placement] {\scriptsize\texttt{(page.\anchor)}};
228
\frac{229}{230}
\frac{231}{231}
      \def\tikzpageputanchorsfooter{
  \foreach \anchor/\placement in {%
  footer northwest/above right%
232
233
234
235
            ,footer north/above%
            ,footer northeast/above left%
236
            ,footer west/right/
237
238
            ,footer center/right%
            ,footer east/left%
,footer southwest/below right%
239
240
             ,footer south/below%
241
         ,footer southeast/below left% } \draw[red,shift=(page.\anchor)] plot[mark=tpx%% my plot mark] coordinates{(0,0)}
242
243
244
         node[blue,\placement] {\scriptsize\texttt{(page.\anchor)}};
^{245}
\frac{246}{247}
      \def\tikzpageputanchorstop{
  \foreach \anchor/\placement in {%
  top northwest/below right%
248
249
250
251
            ,top north/below%
            ,top northeast/below left%
            ,top west/right%
,top center/below%
253
254
            ,top east/left%
255
```

```
,top southwest/above right%
         , top south/above right,
, top south/above ,
, top southeast/above left,/
} \draw[red,shift=(page.\anchor)] plot[mark=tpx;; my plot mark]
coordinates{(0,0)}
257
258
259
         node[blue,\placement] {\scriptsize\texttt{(page.\anchor)}};
261
\frac{262}{263} \\ 264
       \def\tikzpageputanchorsbottom{
  \foreach \anchor/\placement in {%
   bottom northwest/below right%
265
266
267
             ,bottom north/below%, ,bottom northeast/below left%
268
269
             ,bottom west/right%
270
             ,bottom center/below%
              .bottom east/left
272
             ,bottom southwest/above right%
273
              ,bottom south/above/
         ,bottom southeast/above left%
} \draw[red,shift=(page.\anchor)] plot[mark=tpx%% my plot mark
] coordinates{(0,0)}
275
276
277
         node[blue,\placement] {\scriptsize\texttt{(page.\anchor)}};
278
\frac{279}{280}
\frac{281}{281}
      \def\tikzpageputanchorsleft{
  \foreach \anchor/\placement in {%
282
283
            left northwest/below left%
284
             ,left north/left%, ,left northeast/above left%
285
286
             ,left west/below%
287
288
             ,left center/below%,left east/above%,left southwest/below right%
289
         ,left south/right%
,left southeast/above right%
} \draw[red,shift=(page.\anchor)] plot[mark=tpx%% my plot mark
] coordinates{(0,0)}
291
292
293
294
         node[blue,\placement, rotate=90] {\scriptsize\texttt{(page.\anchor)}};
295
\frac{296}{297}
      \def\tikzpageputanchorsright{
  \foreach \anchor/\placement in {%
    right northwest/below left%
298
299
300
             ,right north/left%
301
             right northeast/above left%
             ,right west/below%
,right center/below%
303
304
             ,right east/above%
305
306
             right southwest/below right%
307
             ,right south/right/
            ,right southeast/above right%
\draw[red,shift=(page.\anchor)] plot[mark=tpx%% my plot mark
coordinates{(0,0)}
308
309
310
         node[blue,\placement, rotate=90] {\scriptsize\texttt{(page.\anchor)}};
311
312
```

### \tikzpageputanchors

A simple short hand to display all anchors at once.

```
313 \def\tikzpageputanchors{
314 \tikzpageputanchorsdefaults
315 \tikzpageputanchorsbody
316 \tikzpageputanchorsmarginpar
317 \tikzpageputanchorsheader
318 \tikzpageputanchorsfooter
319 \tikzpageputanchorstop
320 \tikzpageputanchorsbottom
321 \tikzpageputanchorsleft
```

```
322 \tikzpageputanchorsright
323 }
```

### \tpshowframes

Display top, right, bottom and left block using a specific background. This can be used in conjunction with  $\texttt{\tikzpageputanchors}^{\to P.\,10}$  for debuging purposes.

### \tpfancyhdrdefault

An example to display headers and footer as fancyhdr does.

```
\def\tpfancyhdrdefault{
330
      \node [outer sep=0,inner sep=0, anchor=mid] at (page.header center) {};\node [outer sep=0,inner sep=0, anchor=mid east] at (page.header east)
331
332
          {\tpflip{\sl\leftmark}{\sl\rightmark}};
      \node [outer sep=0,inner sep=0, anchor=mid west] at (page.header west)
333
          {\tpflip{\sl\rightmark}{\sl\leftmark}};
334
      \node [outer sep=0,inner sep=0, anchor=base east] at (page.footer east)
      335
          {\thepage};
      \node [outer sep=0,inner sep=0, anchor=base west] at (page.footer west)
336
          {};
   }
337
```

### \tikzpage

Generate a tikzpicture for the whole page. if a \tikzpagelayout command exists, it will be executed.

```
\newcommand{\tikzpage}{
338
        \if@tp@use@textpos
\begin{textblock*}{\textwidth}[0,0](Opt,Opt)%
\fi
339
340
341
           \tp@compute@margins%
342
           \if@tp@use@textpos
\begin{tikzpicture}[]%
\clip (0,0) rectangle (\paperwidth, \paperheight);
343
344
345
346
              \begin{tikzpicture}[remember picture, overlay] %
347
348
              \if@tp@use@textpos
349
```

# 4 Changes

### 4.1 Version 1.1

fancyhdr is not included by tikz-page.sty due to an incompatibility with scrlayer-scrpage.

## References

[1] Trying to do graphical decorations in "ClassicThesis style" http://tex.stackexchange.com/questions/86294

# tikz-page 1.1 (2020/06/30)

# Index

Symbols
@tp@bottom@margin \@tp@bottom@margin
length $\dots 4$
<pre>@tp@create@length \@tp@create@length</pre>
4
@tp@genanchors \@tp@genanchors 6
<pre>@tp@left@margin \@tp@left@margin</pre>
length $\dots 4$
<pre>@tp@right@margin \@tp@right@margin</pre>
length $\dots 4$
<pre>@tp@top@margin \@tp@top@margin</pre>
length $\dots 4$
L
$ Lengths@tp@bottom@margin \verb  \&tp@bottom@margin   \\                                  $
Lengths@tp@top@margin \@tp@top@margin
4
${f T}$
tcflip \tcflip 5
tikzpagelayout \tikzpagelayout 1
tikzpageputanchors \tikzpageputanchors \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
tikzpage \tikzpage 11
tp@compute@margins \tp@compute@margins
5
tpfancyhdrdefault \tpfancyhdrdefault 10
tpshowframes \tpshowframes \t10