

# Displaying page layout variables

Kent McPherson a.o.\*

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This file is maintained by the L<sup>A</sup>T<sub>E</sub>X Project team.  
Bug reports can be opened (category `tools`) at  
<https://latex-project.org/bugs.html>.

## 1 Introduction

This L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub> package is a reimplementation of `layout.sty` by Kent McPherson. It defines the command `\layout` which produces an overview of the layout of the current document. The command `\layout*` recomputes the values it uses to produce the overview.

The figure on the next page shows the output of the `\layout` command for this document.

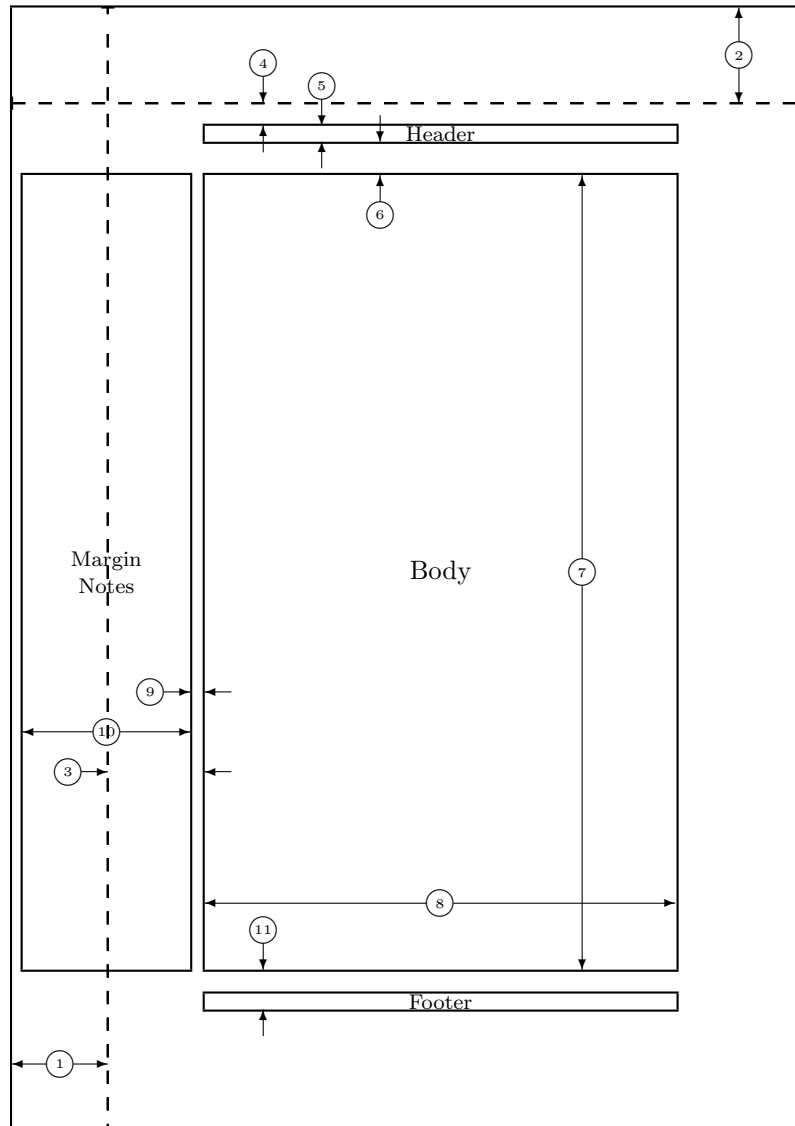
## 2 The implementation

This package prints a figure to illustrate the layout that is implemented by the document class. In the figure several words appear. They are stored in control sequences to be able to select a different language.

```
1 (*package)
2 \DeclareOption{dutch}{%
3   \def\Headertext{Kopregel}
4   \def\Bodytext{Broodtekst}
5   \def\Footertext{Voetregel}
6   \def\MarginNotestext{Marge\Notities}
7   \def\oneinchtext{een inch}
8   \def\notshown{niet getoond}
9 }
10 \DeclareOption{german}{%
11   \def\Headertext{Kopfzeile}
12   \def\Bodytext{Haupttext}
13   \def\Footertext{Fu{\ss}zeile}
14   \def\MarginNotestext{Rand\ notizen}
15   \def\oneinchtext{ein Zoll}
16   \def\notshown{ohne Abbildung}
17 }
18 \DeclareOption{ngerman}{\ExecuteOptions{german}}
```

---

\*Converted for L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub> by Johannes Braams and modified by Hideo Umeki



- |    |                       |    |                                  |
|----|-----------------------|----|----------------------------------|
| 1  | one inch + \hoffset   | 2  | one inch + \voffset              |
| 3  | \oddsidemargin = 73pt | 4  | \topmargin = 17pt                |
| 5  | \headheight = 12pt    | 6  | \headsep = 25pt                  |
| 7  | \textheight = 598pt   | 8  | \textwidth = 355pt               |
| 9  | \marginparsep = 11pt  | 10 | \marginparwidth = 126pt          |
| 11 | \footskip = 30pt      |    | \marginparpush = 0pt (not shown) |
|    | \hoffset = 0pt        |    | \voffset = 0pt                   |
|    | \paperwidth = 597pt   |    | \paperheight = 845pt             |

```

19 \DeclareOption{english}{%
20   \def\Headertext{Header}
21   \def\Bodytext{Body}
22   \def\Footertext{Footer}
23   \def\MarginNotestext{Margin\\Notes}
24   \def\oneinchtext{one inch}
25   \def\notshown{not shown}
26 }
27 \DeclareOption{french}{%
28   \def\Headertext{Ent\`{e}te}
29   \def\Bodytext{Corps}
30   \def\Footertext{Pied de page}
31   \def\MarginNotestext{Marge\\Notes}
32   \def\oneinchtext{un pouce}
33   \def\notshown{non affich\'{e}}
34 }
35 \DeclareOption{français}{\ExecuteOptions{french}}
36 \DeclareOption{spanish}{%
37   \def\Headertext{Encabezamiento}
38   \def\Bodytext{Cuerpo}
39   \def\Footertext{Pie de p\'{a}gina}
40   \def\MarginNotestext{Notas\\ Marginales}
41   \def\oneinchtext{una pulgada}
42   \def\notshown{no mostradas}
43 }
44 \DeclareOption{portuguese}{%
45   \def\Headertext{Cabe\c{c}alho}
46   \def\Bodytext{Corpo}
47   \def\Footertext{Rodap\'{e}}
48   \def\MarginNotestext{Notas\\ Marginais}
49   \def\oneinchtext{uma polegada}
50   \def\notshown{n\~{a}o mostradas}
51 }
52 \DeclareOption{brazilian}{%
53   \def\Headertext{Cabe\c{c}alho}
54   \def\Bodytext{Corpo}
55   \def\Footertext{Rodap\'{e}}
56   \def\MarginNotestext{Notas\\ Marginais}
57   \def\oneinchtext{uma polegada}
58   \def\notshown{n\~{a}o mostradas}
59 }
60 \DeclareOption{italian}{%
61   \def\Headertext{Testatina}
62   \def\Bodytext{Corpo}
63   \def\Footertext{Piedino}
64   \def\MarginNotestext{Note\\ Marginali}
65   \def\oneinchtext{un pollice}
66   \def\notshown{non mostrato}
67 }

```

This package has an option `verbose`. Using it will make the command `\layout` type some of the parameters on the terminal.

```

68 \DeclareOption{verbose}{\let\LayOuttype\typeout}
69 \DeclareOption{silent}{\let\LayOuttype@gobble}

```

The normal behaviour of this package when showing the values of the parameters is to truncate them. However, if you want to see the real parameter values you can use the option `reals` to get that effect.

```
70 \def\lay@value{}
71 \DeclareOption{integers}{%
72   \renewcommand*\lay@value}[2]{%
73     \expandafter\number\csname #1@#2\endcsname pt}}
74 \DeclareOption{reals}{%
75   \renewcommand*\lay@value}[2]{\the\csname #2\endcsname}}
```

The default language is English, the default mode is silent and the default way of showing parameter values is to use integers.

```
76 \ExecuteOptions{english,silent,integers}
77 \ProcessOptions
```

`\LayOutbs` Define `\LayOutbs` to produce a backslash. We use a definition which also works with OT1 fonts.

```
78 \newcommand\LayOutbs{}
79 \chardef\LayOutbs'\
```

`\ConvertToCount` This macro stores the value of a *length* register in a *count* register.

```
80 \def\ConvertToCount#1#2{%
```

First copy the value

```
81   #1=#2
```

Then divide it by 65536.

```
82   \divide #1 by 65536}
```

The result of this is that the *count* register holds the value of the *length* register in points.

`\SetToHalf` Small macros used in computing positions.

```
\SetToHalf 83 \def\SetToHalf#1#2{#1=#2\relax\divide#1by\tw@}
```

```
84 \def\SetToQuart#1#2{#1=#2\relax\divide#1by4}
```

`\Identify` A small macro used in identifying dimensions.

```
85 \def\Identify#1{%
```

```
86   \put(\PositionX,\PositionY){\circle{20}}
```

```
87   \put(\PositionX,\PositionY){\makebox(0,0){\tiny #1}}
```

```
88 }
```

`\InsideHArrow` This macro is used to produce two horizontal arrows inside a box. The argument gives the width of the box.

```
89 \def\InsideHArrow#1{%
```

```
90   \ArrowLength = #1
```

```
91   \divide\ArrowLength by \tw@
```

```
92   \advance\ArrowLength by -10
```

```
93   \advance\PositionX by -10
```

```
94   \ifnum\ArrowLength<\z@
```

```
95     \put(\PositionX,\PositionY){\vector(1,0){-\ArrowLength}}
```

```
96     \advance\PositionX by 20
```

```
97     \put(\PositionX,\PositionY){\vector(-1,0){-\ArrowLength}}
```

```
98   \else
```

```

99   \put(\PositionX,\PositionY){\vector(-1,0){\ArrowLength}}
100  \advance\PositionX by 20
101  \put(\PositionX,\PositionY){\vector(+1,0){\ArrowLength}}
102  \fi
103 }}

```

**\InsideVArrow** This macro is used to produce two vertical arrows inside a box. The argument gives the height of the box.

```

104 \def\InsideVArrow#1{%
105  \ArrowLength = #1
106  \divide\ArrowLength by \tw@
107  \advance\ArrowLength by -10
108  \advance\PositionY by -10
109  \put(\PositionX,\PositionY){\vector(0,-1){\ArrowLength}}
110  \advance\PositionY by 20
111  \put(\PositionX,\PositionY){\vector(0,+1){\ArrowLength}}
112 }}

```

**\OutsideHArrow** This macro is used to produce two horizontal arrows to delimit a length. The first argument is the position for the right arrow, the second argument gives the length and the third specifies the length of the arrows.

```

113 \def\OutsideHArrow#1#2#3{%
114  \PositionX = #1
115  \advance\PositionX by #3
116  \put(\PositionX,\PositionY){\vector(-1,0){#3}}
117  \PositionX = #1 \advance\PositionX-#2
118  \advance\PositionX by -#3
119  \put(\PositionX,\PositionY){\vector(+1,0){#3}}
120 }}

```

**\OutsideVArrow** This macro is used to produce two vertical arrows to delimit a length. The first argument is the position for the lower arrow, the second argument gives the length and the third and fourth specify the lengths of the lower and upper arrow.

```

121 \def\OutsideVArrow#1#2#3#4{%
122  \PositionY = #1
123  \advance\PositionY by -#3
124  \put(\PositionX,\PositionY){\vector(0,+1){#3}}
125  \PositionY = #1
126  \advance\PositionY#2
127  \advance\PositionY#4
128  \put(\PositionX,\PositionY){\vector(0,-1){#4}}
129 }}

```

**\Show** Macro used in the table that shows the setting of the parameters.

```

130 \def\Show#1#2{\LayOutbs #2 = \lay@value{#1}{#2}}

```

**\Type** Macro used to show a setting of a parameter on the terminal.

```

131 \def\Type#1#2{%
132  \LayOuttype{#2 = \lay@value{#1}{#2}}

```

**\oneinch** A constant, giving the length of an inch in points (approximately)

```

133 \newcount\oneinch
134 \oneinch=72

```

Because the overview of the layout is produced in a figure environment we need to allocate a number of counters that are used to store the values of various dimensions.

```

\cnt@paperwidth The dimensions of the paper
\cnt@paperheight 135 \newcount\cnt@paperwidth
                  136 \newcount\cnt@paperheight
                  137 \ConvertToCount\cnt@paperwidth\paperwidth
                  138 \ConvertToCount\cnt@paperheight\paperheight

\cnt@hoffset the offsets,
\cnt@voffset 139 \newcount\cnt@hoffset
              140 \newcount\cnt@voffset
              141 \ConvertToCount\cnt@hoffset\hoffset
              142 \ConvertToCount\cnt@voffset\voffset

\cnt@textheight dimensions of the text area,
\cnt@textwidth 143 \newcount\cnt@textheight
               144 \newcount\cnt@textwidth

\cnt@topmargin margins,
\cnt@oddsidemargin 145 \newcount\cnt@topmargin
\cnt@evensidemargin 146 \newcount\cnt@oddsidemargin
                   147 \newcount\cnt@evensidemargin

\cnt@headheight dimensions of the running heads,
\cnt@headsep 148 \newcount\cnt@headheight
             149 \newcount\cnt@headsep

\cnt@marginparsep marginal paragraphs,
\cnt@marginparwidth 150 \newcount\cnt@marginparsep
\cnt@marginparpush 151 \newcount\cnt@marginparwidth
                  152 \newcount\cnt@marginparpush

\cnt@footskip the distance between the running footers and the text,
              153 \newcount\cnt@footskip

and the height of the footers, which is needed here to display a box, but which
isn't used by LATEX.

\fheight
154 \newcount\fheight
155 \fheight=12

Apart from integer representations of the page layout parameters we also need
registers to store reference values in.

\ref@top The position of the top of the 'printable area' is one inch below the top of the
paper by default. The value of \ref@top is relative to the lower left corner of the
picture environment that will be used.

156 \newcount\ref@top
157 \ref@top=\cnt@paperheight \advance\ref@top by -\oneinch

```

`\ref@hoffset` For the offsets,  
`\ref@voffset` 158 `\newcount\ref@hoffset`  
159 `\newcount\ref@voffset`

The `\hoffset` and `\voffset` values are added to the default offset of one inch.  
160 `\ref@hoffset=\cnt@hoffset \advance\cnt@hoffset by \oneinch`  
161 `\ref@voffset=\cnt@voffset`  
`\cnt@voffset` is converted to be relative to the origin of the picture.  
162 `\cnt@voffset=\ref@top`  
163 `\advance\cnt@voffset by -\ref@voffset`

`\ref@head` and the text areas, running heads,  
164 `\newcount\ref@head`

`\ref@body` body of the text  
165 `\newcount\ref@body`

`\ref@foot` and running footers.  
166 `\newcount\ref@foot`

`\ref@margin` These are different for even and odd pages, so they are computed by `\layout`.  
`\ref@marginwidth` 167 `\newcount\ref@margin`  
`\ref@marginpar` 168 `\newcount\ref@marginwidth`  
169 `\newcount\ref@marginpar`

The following are a number of scratch registers, used in the positioning of the various pieces of the picture.  
170 `\newcount\Interval`  
171 `\newcount\ExtraYPos`  
172 `\newcount\PositionX`  
173 `\newcount\PositionY`  
174 `\newcount\ArrowLength`

`\lay@getvalues` All values that might change during the document are computed by calling the macro `\lay@getvalues`. By default this macro is executed at `\begin{document}`.  
175 `\def\lay@getvalues{%`  
176 `\ConvertToCount\cnt@textheight\textheight`  
177 `\ConvertToCount\cnt@textwidth\textwidth`  
178 `\ConvertToCount\cnt@topmargin\topmargin`  
179 `\ConvertToCount\cnt@oddsidemargin\oddsidemargin`  
180 `\ConvertToCount\cnt@evensidemargin\evensidemargin`  
181 `\ConvertToCount\cnt@headheight\headheight`  
182 `\ConvertToCount\cnt@headsep\headsep`  
183 `\ConvertToCount\cnt@marginparsep\marginparsep`  
184 `\ConvertToCount\cnt@marginparwidth\marginparwidth`  
185 `\ConvertToCount\cnt@marginparpush\marginparpush`  
186 `\ConvertToCount\cnt@footskip\footskip`  
187 `\ref@head=\ref@top`  
188 `\advance\ref@head by -\ref@voffset`  
189 `\advance\ref@head by -\cnt@topmargin`  
190 `\advance\ref@head by -\cnt@headheight`  
191 `\ref@body=\ref@head`  
192 `\advance\ref@body by -\cnt@headsep`

```

193   \advance\ref@body by -\cnt@textheight
194   \ref@foot=\ref@body
195   \advance\ref@foot by -\cnt@footskip
196 }
197 \AtBeginDocument{\lay@getvalues}

\computevalues The command \layout makes the picture and table that display the current set-
\layout        tings of the layout parameters.
\layout*       198 \newcommand\layout{%
                199   \ifstar{\lay@getvalues\lay@xlayout}{\lay@xlayout}}
                200 \def\lay@xlayout{%
                201   \lay@layout
                202   \if@twoside
                203     \lay@layout
                204   \fi}

\lay@layout    The internal macro \lay@layout does all the dirty work.
                205 \newcommand\lay@layout{%
                206   \thispagestyle{empty}

                The actions of \layout depend on the pagestyle.
                207   \if@twoside
                208     \ifodd\count\z@

                Here we deal with an odd page in the twosided case.
                209     \typeout{Two-sided document style, odd page.}

                So we compute \ref@marginwidth, \ref@marginpar and \ref@margin.
                210     \ref@marginwidth=\cnt@oddsidemargin
                211     \ref@marginpar=\oneinch
                212     \advance\ref@marginpar by \ref@offset
                213     \advance\ref@marginpar by \cnt@oddsidemargin
                214     \ref@margin\ref@marginpar
                215     \if@reversemargin
                216       \advance\ref@marginpar by -\cnt@marginparsep
                217       \advance\ref@marginpar by -\cnt@marginparwidth
                218     \else
                219       \advance\ref@marginpar by \cnt@textwidth
                220       \advance\ref@marginpar by \cnt@marginparsep
                221     \fi
                222   \else

                Here we deal with an even page in the twosided case.
                223   \typeout{Two-sided document style, even page.}

                So we compute \ref@marginwidth, \ref@marginpar and \ref@margin.
                224     \ref@marginwidth=\cnt@evensidemargin
                225     \ref@marginpar=\oneinch
                226     \advance\ref@marginpar by \ref@offset
                227     \advance\ref@marginpar by \cnt@evensidemargin
                228     \ref@margin\ref@marginpar
                229     \if@reversemargin
                230       \advance\ref@marginpar by \cnt@textwidth
                231       \advance\ref@marginpar by \cnt@marginparsep

```



```

232     \else
233         \advance\ref@marginpar by -\cnt@marginparsep
234         \advance\ref@marginpar by -\cnt@marginparwidth
235     \fi
236 \fi
237 \else

```

Finally we the case for single sided printing.

```

238     \typeout{One-sided document style.}
239     \ref@marginwidth=\cnt@oddsidemargin
240     \ref@marginpar=\oneinch
241     \advance\ref@marginpar by \ref@hoffset
242     \advance\ref@marginpar by \cnt@oddsidemargin
243     \ref@margin\ref@marginpar
244     \if@reversemargin
245         \advance\ref@marginpar by -\cnt@marginparsep
246         \advance\ref@marginpar by -\cnt@marginparwidth
247     \else
248         \advance\ref@marginpar by \cnt@textwidth
249         \advance\ref@marginpar by \cnt@marginparsep
250     \fi
251 \fi

```

Now we begin the picture environment; dividing all the lengths by two is done by setting `\unitlength` to 0.5pt

```

252 \setlength{\unitlength}{.5pt}
253 \begin{picture}(\cnt@paperwidth,\cnt@paperheight)
254     \centering
255     \thicklines

```

First we have the pagebox and reference lines,

```

256     \put(0,0){\framebox(\cnt@paperwidth,\cnt@paperheight){\mbox{}}}
257     \put(0,\cnt@voffset){\dashbox{10}(\cnt@paperwidth,0){\mbox{}}}
258     \put(\cnt@hoffset,0){\dashbox{10}(0,\cnt@paperheight){\mbox{}}}

```

then the header,

```

259     \put(\ref@margin,\ref@head){%
260         \framebox(\cnt@textwidth,\cnt@headheight)%
261         {\footnotesize\Headertext}}

```

the body of the text area,

```

262     \put(\ref@margin,\ref@body){%
263         \framebox(\cnt@textwidth,\cnt@textheight){\Bodytext}}

```

the footer

```

264     \put(\ref@margin,\ref@foot){%
265         \framebox(\cnt@textwidth,\fheight){\footnotesize\Footertext}}

```

and the space for marginal notes.

```

266     \put(\ref@marginpar,\ref@body){%
267         \framebox(\cnt@marginparwidth,\cnt@textheight)%
268         {\footnotesize\shortstack{\MarginNotestext}}}

```

Then we start putting in ‘arrows’ to mark the various parameters. From here we use `\thinlines`.

```
269 \thinlines
```

`\PositionX` and `\PositionY` will be the coordinates of the center of the arrow displaying `\textwidth`.

```
270 \SetToHalf\PositionX\cnt@textwidth
```

```
271 \advance\PositionX by \ref@margin
```

The arrow should be a bit above the bottom of the ‘body box’.

```
272 \PositionY = \ref@body
```

```
273 \advance\PositionY by 50
```

An identifying number is put here, in a circle.

```
274 \Identify{8}
```

Then the arrow is drawn.

```
275 \InsideHArrow\cnt@textwidth
```

Now the `\textheight`

```
276 \SetToHalf\PositionY\cnt@textheight
```

```
277 \advance\PositionY by \ref@body
```

The x-position of the arrow is at  $4/5$  of the width of the ‘body box’.

```
278 \PositionX = \cnt@textwidth
```

```
279 \divide\PositionX by 5
```

```
280 \multiply\PositionX by 4
```

```
281 \advance\PositionX by \ref@margin
```

An identifying number is put here, in a circle.

```
282 \Identify{7}
```

```
283 \InsideVArrow\cnt@textheight
```

The `\hoffset`,

```
284 \PositionY = 50
```

```
285 \SetToHalf\PositionX\cnt@hoffset
```

```
286 \Identify{1}
```

```
287 \InsideHArrow\cnt@hoffset
```

The width of the margin.

```
288 \SetToQuart\PositionY\cnt@textheight
```

```
289 \advance\PositionY by \ref@body
```

```
290 \ifnum\ref@marginwidth > 0
```

```
291 \OutsideHArrow\ref@margin\ref@marginwidth{20}
```

```
292 \PositionX = \cnt@hoffset
```

```
293 \else
```

```
294 \OutsideHArrow\cnt@hoffset{-\ref@marginwidth}{20}
```

```
295 \PositionX = \ref@margin
```

```
296 \fi
```

```
297 \advance\PositionX by -30
```

```
298 \Identify{3}
```

the `\marginparwidth`,

```
299 \SetToQuart\PositionY\cnt@textheight
```

```
300 \advance\PositionY by \ref@body
```

This arrow has to be bit below the one for the `\oddsidemargin` or `\evensidemargin`.

```
301 \advance\PositionY by 30
302 \SetToHalf\PositionX\cnt@marginparwidth
303 \advance\PositionX by \ref@marginpar
304 \Identify{10}
305 \InsideHArrow\cnt@marginparwidth
```

The `\marginparsep`, this depends on single or double sided printing.

```
306 \advance\PositionY by 30
307 \if@twoside
    Twosided mode, reversemargin;
308 \if@reversemargin
309 \ifodd\count\z@
310 \OutsideHArrow\ref@margin\cnt@marginparsep{20}
311 \PositionX = \ref@margin
312 \else
313 \OutsideHArrow\ref@marginpar\cnt@marginparsep{20}
314 \PositionX = \ref@marginpar
315 \fi
316 \else
```

Not reversemargin;

```
317 \ifodd\count\z@
318 \OutsideHArrow\ref@marginpar\cnt@marginparsep{20}
319 \PositionX = \ref@marginpar
320 \else
321 \OutsideHArrow\ref@margin\cnt@marginparsep{20}
322 \PositionX = \ref@margin
323 \fi
324 \fi
325 \else
```

Single sided mode.

```
326 \if@reversemargin
327 \OutsideHArrow\ref@margin\cnt@marginparsep{20}
328 \PositionX = \ref@margin
329 \else
330 \OutsideHArrow\ref@marginpar\cnt@marginparsep{20}
331 \PositionX = \ref@marginpar
332 \fi
333 \fi
334 \advance\PositionX by -\cnt@marginparsep
335 \advance\PositionX by -30
336 \Identify{9}
```

Identify the `\footskip`. The arrow will be located on 1/8th of the `\textwidth`.

```
337 \PositionX = \cnt@textwidth
338 \divide\PositionX by 8
339 \advance\PositionX by \ref@margin
340 \OutsideVArrow\ref@foot\cnt@footskip{20}{20}
341 \PositionY = \ref@foot
342 \advance\PositionY by \cnt@footskip
343 \advance\PositionY by 30
344 \Identify{11}
```

Identify the `\voffset`. The arrow will be located a bit to the left of the edge of the paper.

```

345   \PositionX = \cnt@paperwidth
346   \advance\PositionX by -50
347   \PositionY = \cnt@paperheight
348   \ExtraYPos = \PositionY
349   \advance\ExtraYPos by -\cnt@voffset
350   \advance\PositionY by \cnt@voffset
351   \divide\PositionY by \tw@
352   \Identify{2}
353   \InsideVArrow\ExtraYPos

```

Identify `\topmargin`, `\headheight` and `\headsep`.

The arrows will be located on  $1/8$ th of the `\textwidth`, with intervals of the same size, stored in `\Interval`.

```

354   \Interval = \cnt@textwidth
355   \divide\Interval by 8
356   \PositionX = \ref@margin
357   \advance\PositionX by \Interval

```

First the `\topmargin`. If `\topmargin` has a positive value, the arrow is upward. Otherwise, it is downward. The number label is always placed at the base of the arrow.

```

358   \ifnum\cnt@topmargin > \z@
359     \ExtraYPos = \ref@head
360     \advance\ExtraYPos\cnt@headheight
361     \OutsideVArrow\ExtraYPos\cnt@topmargin{20}{20}
362     \PositionY = \ExtraYPos
363     \advance\PositionY by \cnt@topmargin
364   \else
365     \ExtraYPos = \cnt@voffset
366     \OutsideVArrow\ExtraYPos{-\cnt@topmargin}{20}{20}
367     \PositionY = \ExtraYPos
368     \advance\PositionY by -\cnt@topmargin
369   \fi
370   \advance\PositionY by 30
371   \Identify{4}
372   \advance\PositionX by \Interval

```

Then the `\headheight`

```

373   \OutsideVArrow\ref@head\cnt@headheight{20}{20}
374   \PositionY = \ref@head
375   \advance\PositionY by \cnt@headheight
376   \advance\PositionY by 30
377   \Identify{5}
378   \advance\PositionX by \Interval

```

and finally the `\headsep`

```

379   \ExtraYPos=\ref@body
380   \advance\ExtraYPos\cnt@textheight
381   \OutsideVArrow\ExtraYPos\cnt@headsep{20}{20}
382   \PositionY = \ref@body
383   \advance\PositionY by \cnt@textheight
384   \advance\PositionY by -30
385   \Identify{6}

```

Here we can end the picture environment and insert a little space.

```
386 \end{picture}
387
388 \medskip
```

Below the picture we put a table to show the actual values of the parameters. Note that fractional points are truncated, i.e., 72.27pt is displayed as 72pt

The table is typeset inside a box with a depth of 0 to always keep it on the same page as the picture.

```
389 \vtop to 0pt{%
390   \@minipagerestore\footnotesize\ttfamily
391   \begin{tabular}{@{}r1@{\hspace{20pt}}r1}
392     1 & \oneinchtex\ + \LayOutbs\texttt{hoffset}
393     & 2 & \oneinchtex\ + \LayOutbs\texttt{voffset} \\
394     3 & \if@twoside
395         \ifodd\count\z@ \Show{cnt}{oddsidemargin}
396         \else \Show{cnt}{evensidemargin}
397         \fi
398     \else
399         \Show{cnt}{oddsidemargin}
400         \fi
401     & 4 & \Show{cnt}{topmargin} \\
402     5 & \Show{cnt}{headheight} & 6 & \Show{cnt}{headsep} \\
403     7 & \Show{cnt}{textheight} & 8 & \Show{cnt}{textwidth} \\
404     9 & \Show{cnt}{marginparsep}&10& \Show{cnt}{marginparwidth} \\
405     11& \Show{cnt}{footskip} & & \Show{cnt}{marginparpush} \\
406     & \rlap{(\notshown)} \\
407     & \Show{ref}{hoffset} & & \Show{ref}{voffset} \\
408     & \Show{cnt}{paperwidth} & & \Show{cnt}{paperheight} \\
409 \end{tabular}\vss}
```

When the option verbose was used the following lines will show dimensions on the terminal.

```
410 \Type{ref}{hoffset}
411 \Type{ref}{voffset}
412 \Type{cnt}{textheight}
413 \Type{cnt}{textwidth}
```

Finally we start a new page.

```
414 \newpage
415 }
416 \end{package}
```