

The `vmargin` Package*

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Abstract

LaTeX package which introduces paper sizes and provides macros for setting document margins. It still works with L^AT_EX 2.09. This package supersedes package `vpage`.

This package file can be made part of a format by typing `\input vmargin.sty` before dumping the format.

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1 License

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2 History

This is the first package I ever wrote, to save a lot of typing when dealing with T_EX's 1in/1in margin offset, proper margin alignment for doublesided printing, and page layout parameters I always used. As there wasn't anything similar on CTAN I submitted the

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package, then called `Vpage`. I never heard back, and wasn't looking for it in the right place, so I thought it hadn't been accepted and never thought any more of it.

In the meantime I realised its general-purpose potential and took the page layout code out, renaming it to `Vmargin`. First time I heard it was on CTAN was when I read the list of 3rd-party packages in the *L^AT_EX Companion* and it had `vpage` in it (CTAN doesn't deal in uppercase letters). So sorry for any confusion the name change caused. . .

Further development essentially ceased because I didn't see much scope for improvements. `vmargin` was doing its job. I could have gone overboard with package options, but didn't because I was more interested in a short efficient tool which doesn't load half of the tools and/or graphics bundle. It still works under both *L^AT_EX 2.09* and *L^AT_EX 2_ε*.

3 User manual

3.1 Page Size

These macros make it easy to set page margins for a chosen paper size. Actual dimensions of the most common paper sizes are stored and need not be remembered.

Two sided printing is supported, meaning that if on odd pages the left margin is, say, 30mm and the right margin is 20mm, it will be vice versa on even pages. This gives equal margins on the outer and equal margins on the inner edge of the paper, as expected e.g. for a book.

`vmargin` is designed to be reasonably restricted in both memory usage and processing time, so that the common task of setting margins is not too distracting. If you are looking for something fancier try the `geometry` package.

The basic procedure of using `vmargin` is to first set a paper size, and then to set the margins. The margin setting functions depend on the paper size. Setting the paper size and margins are two independent operations, i.e. setting the paper size does not directly affect the margins but will affect the following margin setting command.

<code>\setpapersize</code>	The size of the paper can be set with $\backslash\text{setpapersize}\{\langle size \rangle\}$ $\langle size \rangle$ can be A0, A1, ..., A9, B0, B1, ..., B9, C0, ..., C9, USletter, USlegal, and USexecutive. The metric paper sizes are not stored but calculated. <code>\setpapersize</code> by default sets the orientation to portrait. Landscape format is selected by using the optional argument $\backslash\text{setpapersize}[\text{landscape}]\{\langle size \rangle\}$ which swaps the width and height dimensions of the paper. $\backslash\text{setpapersize}[\text{portrait}]\{\langle size \rangle\}$ is allowed but is the default. If you have a size which is not pre-defined use $\backslash\text{setpapersize}\{\text{custom}\}\{\langle width \rangle\}\{\langle height \rangle\}$ For $\langle width \rangle$ and $\langle height \rangle$ insert the respective dimensions of your paper.
<code>\PaperWidth</code>	<code>\setpapersize</code> stores the actual dimensions of the paper in the length variables
<code>\PaperHeight</code>	<code>\PaperWidth</code> <code>\PaperHeight</code>
<code>\ifLandscape</code>	which can be used further, if desired. $\backslash\text{ifLandscape}$ yields true if a landscape format is selected. Do not write to <code>\PaperWidth</code> , <code>\PaperHeight</code> , or call <code>\Landscape>true</code> or <code>\Landscape>false</code> , it will not work!! <code>vmargin</code> detects when it runs under <code>pdflatex</code> , and in that case also sets the pdf page size (variables <code>\pdfpagewidth</code> and <code>\pdfpageheight</code>). Default for the paper size is A4 portrait.

3.2 Margins

`\setmargins` Once the paper size is selected, margins can be set with

```
\setmargins{<leftmargin>}{<topmargin>}{<textwidth>}{<textheight>}%
  {<headheight>}{<headsep>}{<footheight>}{<footskip>}
```

or with

```
\setmarginsrb{<leftmargin>}{<topmargin>}{<rightmargin>}{<bottommargin>}%
  {<headheight>}{<headsep>}{<footheight>}{<footskip>}
```

`\setmarginsrb` In the latter case `\textwidth` and `\textheight` are calculated using the width and height of the selected paper such as to effectively result in `<rightmargin>` and `<bottommargin>`. The first four parameters of the above two commands are used to set `\oddsidemargin`, `\evensidemargin`, `\textwidth`, `\topmargin`, and `\textheight`.

`\setmargnohf` `\setmargnohfrb` provide a page with no header and footer. They work the same as `\setmargins`, `\setmarginsrb` except that they only need the first 4 parameters. The last 4 parameters are set to 0pt. These 2 commands set the pagestyle to empty (`\pagestyle{empty}`) as there is no space for headers or footers.

```
\setmargnohf{<leftmargin>}{<topmargin>}{<textwidth>}{<textheight>}%
\setmargnohfrb{<leftmargin>}{<topmargin>}{<rightmargin>}{<bottommargin>}%
```

`\setmarg` `\setmargrb` are the same as `\setmargnohf`, `\setmargnohfrb` except that `<headheight>`, `<headsep>`, `<footheight>`, and `<footskip>` are unchanged instead of being set to 0pt.

```
\setmarg{<leftmargin>}{<topmargin>}{<textwidth>}{<textheight>}%
\setmargrb{<leftmargin>}{<topmargin>}{<rightmargin>}{<bottommargin>}%
```

Example:

A4 paper, left margin 30mm, top, right, and bottom margin 20mm each, no headers or footers:

```
\setpapersize{A4}
\setmarginsrb{30mm}{20mm}{20mm}{20mm}{0pt}{0mm}{0pt}{0mm}
\pagestyle{empty}
```

The same settings would result with:

```
\setpapersize{A4}
\setmargnohfrb{30mm}{20mm}{20mm}{20mm}
```

Defaults are

```
\setmarginsrb{35mm}{20mm}{25mm}{15mm}{12pt}{11mm}{0pt}{11mm}
```

or with package option `nohf`

```
\setmargnohfrb{35mm}{20mm}{25mm}{15mm}
```

3.3 Dealing with TeX's Margin Offset

The default top and left margins of TeX are +1in. `\setmargXXX` call `\margin@offset` which initialises `\hoffset`, `\voffset` to -1in and `\oddsidemargin`, `\evensidemargin`, `\topmargin` to 0in. `\setmargXXX` then add the given dimensions to `\topmargin`, `\oddsidemargin`, `\evensidemargin`. In some cases it might be desired to use `\XXXmargin` instead of `\Xoffset` for compensation. This can be achieved by telling `\margin@offset` to initialise `\Xoffset` to 0in and `\XXXmargin` to -1in. This is what `\shiftmargins` does.

If `\margin@offset` is already defined at the time `vmargin` is loaded it is NOT re-defined! Therefore if `\margin@offset` is defined before `vmargin` is loaded the above mentioned compensation can be replaced by a different mechanism. In any case `\setmargXXX` call `\margin@offset` and then expect that `\XXXmargin` are set to useful values. `\Xoffset` are not touched by `\setmargXXX`. `\margin@offset` should be defined in a separate file which is included *before* `vmargin`, i.e. appears in the list of document-substyles of the `\documentstyle` command before `vmargin`. Any better way of doing this? (grumble)

Example:

```
\documentclass[...]{...}
\usepackage{...,margins,vmargin,...}
```

if `\margin@offset` is defined in a file called `margins.sty`.
or with L^AT_EX 2.09:

```
\documentstyle[... ,margins,vmargin,...]{...}
```

3.4 L^AT_EX 2_ε

This package now uses some of the new L^AT_EX 2_ε features for package programming. It will still work with L^AT_EX 2.09 (in which case the new features are not used).

L^AT_EX 2_ε (unless in compatibility mode) does not know `\footheight` any more. `vmargin` does not set this variable if it does not exist, and sets it if it does. As `\footheight` was not used by L^AT_EX 2.09 all this has little significance.

L^AT_EX 2_ε now has the dimensions `\paperwidth`, `\paperheight` which hold the size of the paper. `\PaperWidth`, `\PaperHeight` are copied into `\paperwidth`, `\paperheight` if the latter exist. This makes `vmargin` work correctly with anything that expects `\paperwidth`, `\paperheight` to be set properly. The names `\PaperWidth`, `\PaperHeight` had been chosen in the first place to avoid clashes with style files that also use these names (namely `pageframe.sty`).

The following package options are available with L^AT_EX 2_ε:

`shiftmargins`

shiftmargins Same as `\shiftmargins`.

`portrait`

portrait Keep the default of a portrait page layout.

`landscape`

landscape Change the default page orientation to landscape. Note: using `\setpapersize` after `\usepackage` causes package option `landscape` to be ignored.

`A4`

A4, etc Same as using `\setpapersize[...]{...}`. Note: `\setpapersize` always sets the orientation to portrait unless `landscape` is given as an optional argument to `\setpapersize`.

`nohf`

nohf Do not make space for header and footer lines; this also sets the `pagestyle` to `empty`.

All unknown options are treated as a paper size, if necessary generating an error that the requested paper size is not defined.

3.5 Inclusion in T_EX formats

This file may be loaded in `initex` before dumping the format, by typing

```
\makeatletter
\input vmargin.sty
\makeatother
```

Be aware that this generates a non-standard format. It is really only useful for slow computers. This feature has not been tested with L^AT_EX 2_ε.

3.6 Hints for using `pageframe.sty`

`vmargin.sty` and `pageframe.sty` can be used together if the following points are considered:

`vmargin` uses `\hoffset` and `\voffset` and writes negative values into it, `pageframe` expects them to be zero to give a 1in space on the left and the top where it prints additional information. Initially, set both to 0mm (in the preamble of your text) and adjust them later on.

`pageframe` needs to know the trimmed height of the paper (= the height of the “page frame”). Unless the trimmed(!) size of the paper is equivalent to one of the standard paper sizes (unlikely...) the size should be specified with

```
\setpapersize{custom}{\width}{\height}
```

The correct height of the trimmed page can then be given to `pageframe` using

```
\paperheight{\PaperHeight}
```

and the margins of the final product (inside the page frame) can be specified using `\setmargXXX`.

Warning: if `\setmargXXXrb` is used the 3rd parameter (right margin) is ignored. Instead, the dimension of the right margin has to be assigned to `\evensidemargin`. This is because `pageframe` re-defines the meaning of `\evensidemargin` to be the right margin of your text, on all pages.

Remember: all these assignments and macro calls have to be in the preamble of the document.

3.7 Bugs and To Do

I have not tested this with older versions of L^AT_EX 2_ε because I don't have any. If there are any problems please let me know and I'll do something about it.

The way the metric paper sizes are stored takes up a lot of space. A metric size could be computed by `\setpapersize`.

If you have any comments (positive or negative) please let me know!

3.8 Summary

new lengths:

```
\PaperWidth      (read-only)
\PaperHeight     (read-only)
```

new ifs:

```
\ifLandscape     (read-only)
```

new macros:

```
\setpapersize[<orientation>]{<size>},
\setpapersize[<orientation>]{custom}{<width>}{<height>}
  <orientation> (optional) = landscape or portrait (default)
  <size> = A4, B5, ...
  <width>, <height> = actual dimensions of the paper
\setmargins{leftmargin}{topmargin}{textwidth}{textheight}%
  {headheight}{headsep}{footheight}{footskip}
\setmarginsrb{leftmargin}{topmargin}{rightmargin}{bottommargin}%
  {headheight}{headsep}{footheight}{footskip}
\setmargnohf{leftmargin}{topmargin}{textwidth}{textheight}
\setmargnohfrb{leftmargin}{topmargin}{rightmargin}{bottommargin}
\setmarg{leftmargin}{topmargin}{textwidth}{textheight}
\setmargrb{leftmargin}{topmargin}{rightmargin}{bottommargin}

\margin@offset
\shiftmargins
```

LaTeX2e package options:

```
shiftmargins
portrait
landscape
nohf
all other options are treated as paper sizes
```

4 Implementation

```
1 (*package)
```

We use macros for the version info here.

```
2 %\def\filename{Vmargin}
3 \def\filename{vmargin}
4 \def\fileversion{V2.3}
5 \def\filedate{2000/08/01}
```

Allow vmargin to be input more than once. Important for embedding in formats.
6 \@ifundefined{Vmargin}{-}{\endinput}

Make use of L^AT_EX₂ε commands, but only if we are actually running with it.

```

7 \@ifundefined{documentclass}{
8   \edef\Vmargin{Style '\filename', \fileversion, \filedate}
9   \expandafter\everyjob\expandafter{\the\everyjob\typeout{\Vmargin}}
10  \typeout{\Vmargin}
11 }{
12  \NeedsTeXFormat{LaTeX2e}[1994/06/01]
13  \ProvidesPackage{\filename}[\filedate]
14  \edef\Vmargin{Package: \filename\space\filedate\space\fileversion\space
15                (VK) set document margins}
16  \expandafter\everyjob\expandafter{\the\everyjob\typeout{\Vmargin}}
17  \typeout{\Vmargin}
18 }
```

`\PaperWidth` New lengths for paper width and height, and a new if, as flag for using landscape orientation.
`\PaperHeight`
`\ifLandscape`

```

19 \newdimen\PaperWidth
20 \newdimen\PaperHeight
21 \newif\ifLandscape
```

`\setpapersize` Setting a paper size. Kind of a data base lookup. Well, it looks up whether the control sequence is defined...

When running pdf_lat_ex we also set the pdf page size (`\pdfpagewidth` and `\pdfpageheight`).

```

22 \def\setpapersize{\@ifnextchar[{\@@setps}{\@@setps[portrait]}}
23 \def\@@setps[#1]{%
24   \@ifundefined{po@#1}{\@name@err{#1}}{\@nameuse{po@#1}}%
25   \@@@setps}
26 \def\@@@setps#1{%
27   \@ifundefined{paper@#1}{\@name@err{#1}}{ }%
28   \csname paper@#1\endcsname}
29   % \usename{paper@#1} inside arg to \@ifundefined does not work
30   % with papersize "custom".
31 \def\po@portrait{\Landscapefalse}
32 \def\po@landscape{\Landscapetrue}
33 \def\@po@{\ifLandscape
34   \dimen0\PaperWidth\PaperWidth\PaperHeight\PaperHeight\dimen0
35   \fi
36   \@ifundefined{paperwidth}{ }\{\paperwidth\PaperWidth}%
37   \@ifundefined{paperheight}{ }\{\paperheight\PaperHeight}%
38   \@ifundefined{pdfpagewidth}{ }\{\pdfpagewidth\PaperWidth}%
39   \@ifundefined{pdfpageheight}{ }\{\pdfpageheight\PaperHeight}%
40   }
41 \@ifundefined{PackageError}{
42   \def\@name@err#1{%
43     \typeout{*****> \string\setpapersize: illegal parameter: #1}}
44 }{
45   \def\@name@err#1{\PackageError{\filename}%
46     {Paper size or orientation unknown: #1}{}}
47 }
```

`\@defmetricpaper` Calculate smaller sizes from largest one.

```

48 \def\@defmetricpaper#1#2#3{%
49   \begingroup
50   \count0=0
51   \def\w{\dimen1 } \def\h{\dimen2 } \def\s{\dimen3 }%
52   \w#2\h#3
53   \def\l{11}
54   \loop
55     \begingroup
```

```

56 \def\t{\the\count0}
57 \catcode'\t=11 % letter
58 \expandafter\xdef\csname paper@#1\the\count0\endcsname{%
59 \PaperWidth\the\w\PaperHeight\the\h\noexpand\@po@}
60 \endgroup
61 \s\w\w.5\h\h\s
62 \ifnum\the\count0<9
63 \advance\count0 by 1
64 \repeat
65 \endgroup
66 }

```

Pre-defined paper/envelope sizes:

A0, A1, A2, ..., A9, B0, B1, ..., B9, C0, C1, ..., C9

```
67 \defmetricpaper{A}{840.9mm}{1189.2mm}
```

```
68 \defmetricpaper{B}{1000mm}{1414mm}
```

```
69 \defmetricpaper{C}{917mm}{1297mm}
```

delete definition to save memory

```
70 \let\@defmetricpaper=\relax
```

USletter, USlegal, USexecutive

```
71 \def\paper@USletter{\PaperWidth 8.5in \PaperHeight 11in \@po@}
```

```
72 \def\paper@USlegal{\PaperWidth 8.5in \PaperHeight 14in \@po@}
```

```
73 \def\paper@USexecutive{\PaperWidth 7.25in \PaperHeight 10.5in \@po@}
```

custom

```
74 \def\paper@custom#1#2{\PaperWidth#1\PaperHeight#2\@po@}
```

`\margin@offset` Compensates for the +1in/+1in top/left corner by either reducing the margins or `\hoffset`, `\voffset` by 1in. This macro is only defined here if it is not already defined!

```
75 \ifundefined{margin@offset}{%
```

```
76 \def\margin@offset{%
```

```
77 \if@shiftmargins
```

```
78 \oddsidemargin -1in\evensidemargin\oddsidemargin\topmargin\oddsidemargin
```

```
79 \hoffset\z@\voffset\z@
```

```
80 \else
```

```
81 \oddsidemargin\z@\evensidemargin\z@\topmargin\z@
```

```
82 \hoffset -1in\voffset\hoffset
```

```
83 \fi
```

```
84 }}{}
```

`\shiftmargins` A new if, as flag for when to use margins instead of `\hoffset`/`\voffset` to compensate, and a user-command to set the flag.

```
85 \newif\if@shiftmargins
```

```
86 \@shiftmarginsfalse % this MUST be default (pageframe.sty)
```

```
87 \def\shiftmargins{\@shiftmarginstrue}
```

Setting margins

```
\setmargins \setmargins{leftmargin}{topmargin}{textwidth}{textheight}%
{headheight}{headsep}{footheight}{footskip}
```

```
88 \newcommand\setmargins[8]{%
```

```
89 \margin@offset
```

```
90 \advance\oddsidemargin #1
```

```
91 \advance\evensidemargin \PaperWidth % = paperwidth - left
```

```
92 \advance\evensidemargin -#1 % - width
```

```
93 \advance\evensidemargin -#3
```

```
94 \advance\topmargin #2
```

```
95 \textwidth #3
```

```
96 \textheight #4
```

```
97 \headheight #5
```

```

98 \headsep #6
99 \@ifundefined{footheight}{\footheight=#7}%
100 \footskip #8
101 \chk@dimen{#1}{#2}{#3}{#4}%
102 }

\setmarginsrb \setmarginsrb{leftmargin}{topmargin}{rightmargin}{bottommargin}%
             {headheight}{headsep}{footheight}{footskip}

103 \newcommand\setmarginsrb[8]{%
104 \margin@offset
105 \textwidth \PaperWidth % = paperwidth
106 \advance\textwidth -#1 % - left - right
107 \advance\textwidth -#3
108 \textheight \PaperHeight % = paperheight - top
109 \advance\textheight -#2 % - headheight
110 \advance\textheight -#5 % - headsep
111 \advance\textheight -#6 % - footskip - bottom
112 \advance\textheight -#8
113 \advance\textheight -#4
114 \advance\oddsidemargin #1
115 \advance\evensidemargin \PaperWidth % = paperwidth
116 \advance\evensidemargin -#1 % - left - width
117 \advance\evensidemargin -\textwidth
118 \advance\topmargin #2
119 \headheight #5
120 \headsep #6
121 \@ifundefined{footheight}{\footheight=#7}%
122 \footskip #8
123 \chk@dimen{#1}{#2}{#3}{#4}%
124 }

\setmargnohf \setmargnohf{leftmargin}{topmargin}{textwidth}{textheight}
             headheight, headsep, footheight, footskip set to Opt

125 \newcommand\setmargnohf[4]{%
126 \setmargins{#1}{#2}{#3}{#4}\z@\z@\z@\z@
127 \pagestyle{empty}}

\setmargnohfrb \setmargnohfrb{leftmargin}{topmargin}{rightmargin}{bottommargin}
              headheight, headsep, footheight, footskip set to Opt

128 \newcommand\setmargnohfrb[4]{%
129 \setmarginsrb{#1}{#2}{#3}{#4}\z@\z@\z@\z@
130 \pagestyle{empty}}

\setmarg \setmarg{leftmargin}{topmargin}{textwidth}{textheight}
          headheight, headsep, footheight, footskip unchanged

131 \newcommand\setmarg[4]{%
132 \setmargins{#1}{#2}{#3}{#4}%
133 \headheight\headsep\footheight\footskip}

\setmargrb \setmargrb{leftmargin}{topmargin}{rightmargin}{bottommargin}
          headheight, headsep, footheight, footskip unchanged

134 \newcommand\setmargrb[4]{%
135 \setmarginsrb{#1}{#2}{#3}{#4}%
136 \headheight\headsep\footheight\footskip}

\chk@dimen A brief plausability check.
h-warning:
  if [leftmarg + textwidth > paperwidth] resp.
  if [leftmarg + rightmarg > paperwidth].
v-warning:
  if [topmarg + textheight > paperheight] resp.
  if [topmarg + bottommarg > paperheight].

```



```

137 \def\chk@dimen#1#2#3#4{%
138 \dimen0= #1
139 \advance\dimen0 by#3
140 \advance\dimen0 -\PaperWidth
141 \dimen1= #2
142 \advance\dimen1 by#4
143 \advance\dimen1 \headheight
144 \advance\dimen1 \headsep
145 \advance\dimen1 \footskip
146 \advance\dimen1 -\PaperHeight
147 \chk@dimen@err
148 }

```

\chk@dimen@err Make this work with both L^AT_EX 2.09 and L^AT_EX 2_ε.

```

149 \@ifundefined{PackageError}{
150 \def\chk@dimen@err{%
151 \ifnum\dimen0>\z@\typeout{vmargin Warning: Horizontal dimensions
152 exceed paper width by \the\dimen0}\fi
153 \ifnum\dimen1>\z@\typeout{vmargin Warning: Vertical dimensions
154 exceed paper height by \the\dimen1}\fi
155 }
156 }{
157 \def\chk@dimen@err{%
158 \ifnum\dimen0>\z@\PackageError{\filename}{%
159 Horizontal dimensions exceed paper width by \the\dimen0}{}\fi
160 \ifnum\dimen1>\z@\PackageError{\filename}{%
161 Vertical dimensions exceed paper height by \the\dimen1}{}\fi
162 }
163 }

```

Defaults, and L^AT_EX 2_ε package options (ignored for 2.09).

```

164 \setpapersize{A4}
165 \def\@hf@dflt{}
166 \@ifundefined{DeclareOption}{
167 }{
168 \DeclareOption{shiftmargins}{\shiftmargins}
169 \DeclareOption{portrait}{\Landscapefalse}
170 \DeclareOption{landscape}{\Landscapetrue}
171 \DeclareOption{nohf}{\def\@hf@dflt{y}}
172 \DeclareOption*{\@@@setps{\CurrentOption}}
173 \ProcessOptions\relax % process options in order of declaration!
174 }
175 \if y\@hf@dflt
176 \setmargnohfrb{35mm}{20mm}{25mm}{15mm}%
177 \else
178 \setmarginsrb{35mm}{20mm}{25mm}{15mm}{12pt}{11mm}{0pt}{11mm}%
179 \fi
180 </package>

```

Change History

1.0	General: Created out of Vpage.sty V2.2, 18 June 1993 1	V1.8	General: Commented \chk@dimen; re- duced load on T _E X'sparameter stack (changed \chk@dimen); put a conditional around references to \footheight. 1
V1.7	General: Changed file header. 1	V1.9	General: Corrected spelling in com- ment. 1
V1.72	General: Fixed bug in \setpapersize{custom}. 1		

V2.0	General: Added support for L ^A T _E X2e	Changed references to Vmargin to vmargin. L ^A T _E X2e package options introduced.	1
	\paperwidth, \paperheight.		1
V2.12	General: Fixed documentation for	v2.2b	
	\setmargrb.	General: Changed into docstrip format. Improved documentation. . .	1
V2.13	General: Fixed comment for	v2.3	
	\setmarginsrb.		1
V2.2	General: Released under LPPL.	General: Now setting page size for pdflatex.	1

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Numbers written in *italics* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in *roman* refer to the code lines where the entry is used.

Symbols	\ifLandscape . . . 2, <u>19</u> , 33	\po@landscape 32
\@@@setps 25, 26, 172		\po@portrait 31
\@@setps 22, 23	L	
\@defmetricpaper	\l 53	S
. <u>48</u> , 67–70	\Landscapefalse . . . 31, 169	\s 51, 61
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