

The `eso-pic` package*

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1 Introduction

This package makes it easy to add some picture commands to every page at absolute positions.

2 Usage

See also the example \LaTeX documents (`eso-*.tex`).

2.1 Basic commands for adding \LaTeX stuff to the page background

<code>\AddToShipoutPictureBG</code>	All the picture commands which are parameters of an <code>\AddToShipoutPictureBG</code> command will be added to the internal macro <code>\ESO@HookIBG</code> . This macro is part of a zero-length <code>picture</code> environment with basepoint at the lower left corner of the page (default) or at the upper left corner (package option "texcoord"). The <code>picture</code> environment will be shipped out at every new page.
<code>\AddToShipoutPictureBG*</code>	<code>\AddToShipoutPictureBG*</code> works like <code>\AddToShipoutPictureBG</code> but only for the current page. It used the internal macro <code>\ESO@HookIIBG</code> which contents will be removed automatically. For compatibility the macros <code>\AddToShipoutPicture</code> and <code>\AddToShipoutPicture*</code> are aliases for <code>\AddToShipoutPictureBG</code> and <code>\AddToShipoutPictureBG*</code> .
<code>\AddToShipoutPictureFG</code>	Works like <code>\AddToShipoutPictureBG</code> but the picture commands are on the top of the normal document content.
<code>\AddToShipoutPictureFG*</code>	
<code>\ClearShipoutPictureBG</code>	A call of <code>\ClearShipoutPictureBG</code> clears the contents of <code>\ESO@HookIBG</code> . For compatibility the macro <code>\ClearShipoutPicture</code> is an alias for <code>\ClearShipoutPictureBG</code> .
<code>\ClearShipoutPictureFG</code>	A call of <code>\ClearShipoutPictureFG</code> clears the contents of <code>\ESO@HookIFG</code> .
<code>\LenToUnit</code>	Allows a length as parameter to a picture command. Note that this macro is no more necessary when using <code>\usepackage{picture}</code> .
<code>\gridSetup</code>	<code>\gridSetup[\langle gridunitname \rangle]{\langle gridunit \rangle}{\langle labelfactor \rangle}{\langle griddelta \rangle}{\langle gridDelta \rangle}{\langle gap \rangle}</code> . For details see the implementation section.

*This document corresponds to `eso-pic` v2.0f, dated 2015/07/14.

\AtPageUpperLeft Helper macros for easier positioning on the page.

\AtPageLowerLeft

\AtPageCenter

\AtTextUpperLeft

\AtTextLowerLeft

\AtTextCenter

\AtStockUpperLeft

\AtStockLowerLeft

\AtStockCenter

2.2 Package options

Option	Value	Comments
pscoord	empty or <i>true</i> , <i>false</i>	The zero point of the coordinate system is the lower left corner of the page (the default).
texcoord	empty or <i>true</i> , <i>false</i>	The zero point of the coordinate system is the upper left corner of the page.
grid	empty or <i>true</i> , <i>false</i>	A grid is drawing; default: false.
gridunit	<i>mm</i> , <i>in</i> , <i>bp</i> , <i>pt</i>	Distance between gridlines are multiples of gridunit . default: mm.
gridcolor	a valid color name	Color of the main gridlines; default: black
subgridcolor	a valid color name	Color of the subgridlines; default: black.
subgridstyle	<i>solid</i> or <i>dotted</i>	‘dotted’ is very slow! default: solid.
colorgrid	empty or <i>true</i> , <i>false</i>	Shortcut for ‘grid=true’, ‘gridcolor=red’ and ‘subgridcolor=green’; default: false.
dvips	empty or <i>true</i> , <i>false</i>	Is also true if the package option dvips is used by color or graphics . If true package eeepic is loaded for better performance of dotted lines.

3 Implementation

3.1 The main functionality

```

1 \RequirePackage{atbegshi}

\LenToUnit
2 \providecommand*\LenToUnit[1]{\strip@pt\dimexpr#1*\p@/\unitlength}

\ESO@isMEMOIR Support for the memoir class.
3 \newcommand\ESO@isMEMOIR[2]{#2}
4 \@ifclassloaded{memoir}{\renewcommand\ESO@isMEMOIR[2]{#1}}{}

\AtPageUpperLeft
5 \newcommand\AtPageUpperLeft[1]{%
6   \put(0,\LenToUnit{-\ESO@yoffsetI}){#1}%
7 }

\AtPageLowerLeft
8 \newcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
9   \put(0,\LenToUnit{-\paperheight}){#1}}}

\AtPageCenter
10 \newcommand\AtPageCenter[1]{\AtPageUpperLeft{%
11   \put(\LenToUnit{.5\paperwidth},\LenToUnit{-.5\paperheight}){#1}}%
12 }
```

\AtStockLowerLeft

```

13 \newcommand\AtStockLowerLeft{}
14 \ESO@isMEMOIR{%
15   \renewcommand\AtStockLowerLeft[1]{%
16     \begin{group}
17       \@tempdima=-\stockwidth
18       \advance\@tempdima\trimedge
19       \advance\@tempdima\paperwidth
20       \if@twoside\ifodd\c@page\else
21         \@tempdima=-\trimedge
22       \fi\fi
23       \@tempdimb=-\stockheight
24       \advance\@tempdimb\paperheight
25       \advance\@tempdimb\trimtop
26       \AtPageLowerLeft{%
27         \put(\LenToUnit{\@tempdima},\LenToUnit{\@tempdimb}){#1}%
28       }%
29     \end{group}
30   }
31 }{%
32   \let\AtStockLowerLeft=\AtPageLowerLeft
33 }

```

\AtStockUpperLeft

```

34 \newcommand\AtStockUpperLeft{}
35 \ESO@isMEMOIR{%
36   \renewcommand\AtStockUpperLeft[1]{%
37     \AtStockLowerLeft{%
38       \put(0,\LenToUnit{\stockheight}){#1}%
39     }%
40   }%
41 }{%
42   \let\AtStockUpperLeft=\AtPageUpperLeft
43 }

```

\AtStockCenter

```

44 \newcommand\AtStockCenter{}
45 \ESO@isMEMOIR{%
46   \renewcommand\AtStockCenter[1]{%
47     \AtStockLowerLeft{%
48       \put(\LenToUnit{.5\stockwidth},\LenToUnit{.5\stockheight}){#1}%
49     }%
50   }%
51 }{%
52   \let\AtStockCenter=\AtPageCenter
53 }

```

\AtTextUpperLeft

```

54 \ESO@isMEMOIR{%
55   \newcommand\AtTextUpperLeft[1]{%
56     \begin{group}
57       \ifodd\c@page
58         \@tempdima=\spinemargin
59       \else

```

```

60      \@tempdima=\paperwidth
61      \advance\@tempdima-\textwidth
62      \advance\@tempdima-\spinemargin
63      \fi
64      \@tempdimb=-\uppermargin
65      \AtPageUpperLeft{%
66        \put(\LenToUnit{\@tempdima},\LenToUnit{\@tempdimb}){#1}%
67      }%
68      \endgroup
69    }
70  }{%
71    \newcommand\AtTextUpperLeft[1]{%
72      \begingroup
73        \@tempdima=1in\relax
74        \if@twoside
75          \ifodd\c@page
76            \advance\@tempdima\oddsidemargin
77          \else
78            \advance\@tempdima\evensidemargin
79          \fi
80        \else
81          \advance\@tempdima\oddsidemargin
82        \fi
83        \@tempdimb=-1in\relax
84        \advance\@tempdimb-\topmargin
85        \advance\@tempdimb-\headheight
86        \advance\@tempdimb-\headsep
87        \AtPageUpperLeft{%
88          \put(\LenToUnit{\@tempdima},\LenToUnit{\@tempdimb}){#1}%
89        }%
90      \endgroup
91    }
92  }

```

\AtTextLowerLeft

```

93 \newcommand\AtTextLowerLeft[1]{\AtTextUpperLeft{%
94   \put(0,\LenToUnit{-\textheight}){#1}}}

```

\AtTextCenter

```

95 \newcommand\AtTextCenter[1]{\AtTextUpperLeft{%
96   \put(\LenToUnit{.5\textwidth},\LenToUnit{-.5\textheight}){#1}}}

```

\ESO@HookIBG

```

\ESO@HookIIBG 97 \newcommand{\ESO@HookIBG}{}
\ESO@HookIIIBG 98 \newcommand{\ESO@HookIIBG}{}
\ESO@HookIFG 99 \newcommand{\ESO@HookIIIBG}{}
\ESO@HookIIFG 100 \newcommand{\ESO@HookIFG}{}
101 \newcommand{\ESO@HookIIFG}{}
102 \newcommand{\ESO@HookI}{}
103 \newcommand{\ESO@HookII}{}
104 \newcommand{\ESO@HookIII}{}
105 \let\ESO@HookI=\ESO@HookIBG
106 \let\ESO@HookII=\ESO@HookIIBG
107 \let\ESO@HookIII=\ESO@HookIIIBG

```

```

\AddToShipoutPictureBG
\AddToShipoutPictureFG 108 \newcommand{\AddToShipoutPictureBG}{%
109 \ifstar{\g@addto@macro\ESO@HookIIBG}{\g@addto@macro\ESO@HookIBG}}
110 \newcommand{\AddToShipoutPicture}{%
111 \let\AddToShipoutPicture=\AddToShipoutPictureBG

\AddToShipoutPictureFG
112 \newcommand{\AddToShipoutPictureFG}{%
113 \ifstar{\g@addto@macro\ESO@HookIIFG}{\g@addto@macro\ESO@HookIFG}}

\ClearShipoutPictureBG
\ClearShipoutPicture 114 \newcommand{\ClearShipoutPictureBG}{\global\let\ESO@HookIBG\@empty}
\ClearShipoutPictureFG 115 \newcommand{\ClearShipoutPicture}{%
116 \let\ClearShipoutPicture=\ClearShipoutPictureBG
117 \newcommand{\ClearShipoutPictureFG}{\global\let\ESO@HookIFG\@empty}

\AtBeginShipout (see package atbegshi)
\AtBeginShipoutUpperLeft 118 \ESO@isMEMOIR{%
ginShipoutUpperLeftForeground 119 \AtBeginShipout{%
120 \@tempdima=-\trimedge
121 \advance\@tempdima-\paperwidth
122 \advance\@tempdima\stockwidth
123 \if@twoside\ifodd\c@page\else
124 \advance\@tempdima2\trimedge
125 \advance\@tempdima\paperwidth
126 \advance\@tempdima-\stockwidth
127 \fi\fi
128 \@tempdimb=\ESO@yoffsetI
129 \advance\@tempdimb-\trimtop
130 \nointerlineskip
131 \AtBeginShipoutUpperLeft{%
132 \put(\LenToUnit{\@tempdima},\LenToUnit{\@tempdimb}){%
133 \ESO@HookIIBG\ESO@HookIBG\ESO@HookIIBG
134 \global\let\ESO@HookIIBG\@empty
135 }%
136 }%
137 \AtBeginShipoutUpperLeftForeground{%
138 \put(\LenToUnit{\@tempdima},\LenToUnit{\@tempdimb}){%
139 \ESO@HookIIFG\ESO@HookIIFG
140 \global\let\ESO@HookIIFG\@empty
141 }%
142 }%
143 }
144 }{%
145 \AtBeginShipout{%
146 \nointerlineskip
147 \AtBeginShipoutUpperLeft{%
148 \put(0,\LenToUnit{\ESO@yoffsetI}){%
149 \ESO@HookIIBG\ESO@HookIBG\ESO@HookIIBG
150 \global\let\ESO@HookIIBG\@empty
151 }%
152 }%
153 \AtBeginShipoutUpperLeftForeground{%
154 \put(0,\LenToUnit{\ESO@yoffsetI}){%

```

```

155         \ESO@HookIFG\ESO@HookIIFG
156         \global\let\ESO@HookIIFG\@empty
157     }%
158 }%
159 }
160 }

```

3.2 The background grid

```

161 \RequirePackage{keyval}

Initialising some macros
162 \newif\ifESO@dvips\ESO@dvipsfalse \newif\ifESO@grid\ESO@gridfalse
163 \newif\ifESO@texcoord\ESO@texcoordfalse
164 \newcommand*\ESO@gridunitname{}
165 \newcommand*\ESO@gridunit{}
166 \newcommand*\ESO@labelfactor{}
167 \newcommand*\ESO@griddelta{}\newcommand*\ESO@griddeltaY{}
168 \newcommand*\ESO@gridDelta{}\newcommand*\ESO@gridDeltaY{}
169 \newcommand*\ESO@gridcolor{}
170 \newcommand*\ESO@subgridcolor{}
171 \newcommand*\ESO@subgridstyle{dotted}% ???
172 \newcommand*\ESO@gap{}
173 \newcommand*\ESO@yoffsetI{}\newcommand*\ESO@yoffsetII{}
174 \newcommand*\ESO@gridlines{\thinlines}
175 \newcommand*\ESO@subgridlines{\thinlines}
176 \newcommand*\ESO@hline[1]{\ESO@subgridlines\line(1,0){#1}}
177 \newcommand*\ESO@vline[1]{\ESO@subgridlines\line(0,1){#1}}
178 \newcommand*\ESO@Hline[1]{\ESO@gridlines\line(1,0){#1}}
179 \newcommand*\ESO@Vline[1]{\ESO@gridlines\line(0,1){#1}}
180 \newcommand\ESO@fcolorbox[3]{\fbox{#3}}
181 \newcommand\ESO@color[1]{}
182 \newcommand\ESO@colorbox[2]{}
183 \begingroup
184     \fboxrule=\z@\fbox{#2}%
185 \endgroup
186 }

```

\gridSetup

```

187 \newcommand\gridSetup[6][]{%
188     \edef\ESO@gridunitname{#1}\edef\ESO@gridunit{#2}
189     \edef\ESO@labelfactor{#3}\edef\ESO@griddelta{#4}
190     \edef\ESO@gridDelta{#5}\edef\ESO@gap{#6}}

```

All the key-value options

```

191 \define@key{ESO}{texcoord}[true]{\csname ESO@texcoord#1\endcsname}
192 \define@key{ESO}{pscoord}[true]{\csname @tempwa#1\endcsname
193     \if@tempwa\ESO@texcoordfalse\else\ESO@texcoordtrue\fi}
194 \define@key{ESO}{dvips}[true]{\csname ESO@dvips#1\endcsname}
195 \define@key{ESO}{grid}[true]{\csname ESO@grid#1\endcsname
196     \setkeys{ESO}{gridcolor=black,subgridcolor=black}}
197 \define@key{ESO}{colorgrid}[true]{\csname ESO@grid#1\endcsname
198     \setkeys{ESO}{gridcolor=red,subgridcolor=green}}
199 \define@key{ESO}{gridcolor}{\def\ESO@gridcolor{#1}}
200 \define@key{ESO}{subgridcolor}{\def\ESO@subgridcolor{#1}}

```

```

201 \define@key{ESO}{subgridstyle}{\def\ESO@subgridstyle{#1}}%
202 \define@key{ESO}{gridunit}{%
203   \def\@tempa{#1}
204   \def\@tempb{bp}
205   \ifx\@tempa\@tempb
206     \gridSetup[\@tempa]{1bp}{1}{10}{50}{2}
207   \else
208     \def\@tempb{pt}
209     \ifx\@tempa\@tempb
210       \gridSetup[\@tempa]{\p@}{1}{10}{50}{2}
211     \else
212       \def\@tempb{in}
213       \ifx\@tempa\@tempb
214         \gridSetup[\@tempa]{.1in}{.1}{2}{10}{.5}
215       \else
216         \gridSetup[mm]{1mm}{1}{5}{20}{1}
217       \fi
218     \fi
219   \fi
220 }
221 \setkeys{ESO}{subgridstyle=solid,pscoord=true,gridunit=mm}

```

`\ProcessOptionsWithKV` This macro can process package options using ‘key=value’ syntax.

```

222 \def\ProcessOptionsWithKV#1{%
223   \let\@tempc\@empty
224   \@for\CurrentOption:=\@classoptionslist\do{%
225     \ifundefined{KV@#1@\CurrentOption}%
226       {}{\edef\@tempc{\@tempc,\CurrentOption,}}}%
227   \edef\@tempc{%
228     \noexpand\setkeys{#1}{\@tempc\@ptionlist{\@currname.\@currentx}}}%
229   \@tempc
230   \AtEndOfPackage{\let\@unprocessedoptions\relax}}%
231 \ProcessOptionsWithKV{ESO}%

```

`\ESO@div` Divides length #1 by $\#2 \times \text{\ESO@gridunit}$ and adds one. Result is in `\@tempcnta`.

```

232 \newcommand\ESO@div[2]{%
233   \@tempdima=#1\relax\@tempdimb=\ESO@gridunit\relax
234   \@tempdimb=#2\@tempdimb\divide\@tempdima by \@tempdimb
235   \@tempcnta\@tempdima\advance\@tempcnta\@ne}

236 \ifundefined{colorbox}{%
237   \IfFileExists{xcolor.sty}{\RequirePackage{xcolor}}%
238   {\RequirePackage{color}}%
239 }{}%
240 \let\ESO@color=\color
241 \renewcommand\ESO@colorbox[2]{%
242   \begin{group}
243     \fboxsep=.4ex %
244     \colorbox{#1}{#2}%
245   \end{group}
246 }
247 \renewcommand\ESO@fcolorbox[3]{%
248   \begin{group}

```

```

249 \fbboxsep=.5ex %
250 \fcolorbox{#1}{#2}{#3}%
251 \endgroup
252 }
253 \AtBeginDocument{%
254 \ESO@dviupsfalse
255 \ifundefined{Gin@driver}{}%
256 {%
257 \ifx\Gin@driver\empty\else%
258 \filename@parse{\Gin@driver}\def\reserved@a{dvips}%
259 \ifx\filename@base\reserved@a\ESO@dviupstrue\fi
260 \fi
261 }%
262 \ifESO@dviups\def\@tempb{eepic}\else\def\@tempb{epic}\fi
263 \def\@tempa{dotted}%\def\ESO@gap{\LenToUnit{6\@wholewidth}}%
264 \ifx\@tempa\ESO@subgridstyle
265 \IfFileExists{\@tempb.sty}%
266 {%
267 \RequirePackage{\@tempb}
268 \renewcommand*\ESO@hline[1]{\ESO@subgridlines\dottedline{\ESO@gap}%
269 (0,0)(##1,0)}
270 \renewcommand*\ESO@vline[1]{\ESO@subgridlines\dottedline{\ESO@gap}%
271 (0,0)(0,##1)}
272 }{}
273 \else
274 \ifx\ESO@gridcolor\ESO@subgridcolor
275 \renewcommand*\ESO@gridlines{\thicklines}
276 \fi
277 \fi
278 }
279 \ifESO@texcoord
280 \def\ESO@yoffsetI{\z@}\def\ESO@yoffsetII{-\paperheight}
281 \edef\ESO@griddeltaY{-\ESO@griddelta}\edef\ESO@gridDeltaY{-\ESO@gridDelta}
282 \else
283 \def\ESO@yoffsetI{-\paperheight}\def\ESO@yoffsetII{\z@}
284 \edef\ESO@griddeltaY{\ESO@griddelta}\edef\ESO@gridDeltaY{\ESO@gridDelta}
285 \fi

```

\ESO@gridpicture

```

286 \newcommand\ESO@gridpicture{%
287 \begingroup
288 \setlength\unitlength{\ESO@gridunit}%
289 \ESO@color{\ESO@subgridcolor}%
290 — horizontal subgrid lines —
290 \ESO@div{\paperheight}{\ESO@griddelta}%
291 \multiput(0,0)(0,\ESO@griddeltaY){\@tempcnta}%
292 {\ESO@hline{\LenToUnit{\paperwidth}}}%
293 — vertical subgrid lines —
293 \ESO@div{\paperwidth}{\ESO@griddelta}%
294 \multiput(0,\LenToUnit{\ESO@yoffsetII})(\ESO@griddelta,0){\@tempcnta}%
295 {\ESO@vline{\LenToUnit{\paperheight}}}%
296 \ESO@color{\ESO@gridcolor}%

```



```

— horizontal grid lines —
297 \ESO@div{\paperheight}{\ESO@gridDelta}%
298 \multiput(0,0)(0,\ESO@gridDeltaY){\@tempcnta}%
299 {\ESO@Hline{\LenToUnit{\paperwidth}}}%

— vertical grid lines —
300 \ESO@div{\paperwidth}{\ESO@gridDelta}%
301 \multiput(0,\LenToUnit{\ESO@yoffsetII})(\ESO@gridDelta,0){\@tempcnta}%
302 {\ESO@Vline{\LenToUnit{\paperheight}}}%

— horizontal numbers —
303 \fontsize{10}{12}\normalfont%
304 \ESO@div{\paperwidth}{\ESO@gridDelta}%
305 \multiput(0,\ESO@gridDeltaY)(\ESO@gridDelta,0){\@tempcnta}{%
306 \@tempcntb=\@tempcnta\advance\@tempcntb-\@multicnt
307 \ifnum\@tempcntb>1\relax
308 \multiply\@tempcntb by \ESO@gridDelta\relax
309 \@tempdima=\@tempcntb sp\@tempdima=\ESO@labelfactor\@tempdima
310 \@tempcntb=\@tempdima%
311 \makebox(0,0)[c]{\ESO@colorbox{white}{\the\@tempcntb}}%
312 \fi}%

— vertical numbers —
313 \ifx\ESO@gridunitname\@empty\def\@tempa{0}\else\def\@tempa{1}\fi
314 \ESO@div{\paperheight}{\ESO@gridDelta}%
315 \multiput(\ESO@gridDelta,0)(0,\ESO@gridDeltaY){\@tempcnta}{%
316 \@tempcntb=\@tempcnta\advance\@tempcntb-\@multicnt%
317 \ifnum\@tempcntb>\@tempa\relax
318 \multiply\@tempcntb by \ESO@gridDelta\relax%
319 \@tempdima=\@tempcntb sp\@tempdima=\ESO@labelfactor\@tempdima
320 \@tempcntb=\@tempdima
321 \makebox(0,0)[c]{\ESO@colorbox{white}{\the\@tempcntb}}%
322 \fi
323 }%

— the unit label —
324 \ifx\ESO@gridunitname\@empty\else
325 \thicklines\fbboxrule=\@wholewidth
326 \put(\ESO@gridDelta,\ESO@gridDeltaY){\makebox(0,0)[c]{%
327 \ESO@fcolorbox{\ESO@gridcolor}{white}{%
328 \textbf{\ESO@gridunitname}}}%
329 \fi
330 \normalcolor%
331 \endgroup
332 }

```

Add the grid to the shipout picture (\ESO@HookIIIIBG is independent from the user commands \AddToShipoutPictureBG and \AddToShipoutPictureBG*).

```

333 \ifESO@grid\g@addto@macro\ESO@HookIFG{\ESO@gridpicture}\fi

```

Change History

v0.4	General: Initial version 1	v1.1b	General: New command <code>\AtPageLowerLeft</code> 1
v0.5	General: Some bug corrections . . . 1		New package options "texcoord" and "pscoord" 1
v0.6	General: Some corrections for compatibility with the <code>html</code> package suggested by Ross Moore and a licence note 1	v1.1c	General: Remove the disadvantageous check of 'pdfTeX'. Now using with Xe _{La} TeX should be possible. 7
v0.7	General: New command <code>\AddToShipoutPicture*</code> 1	v2.0a	General: Better test of color/xcolor 7 <code>\AtStockCenter</code> : New 3 <code>\AtStockLowerLeft</code> : New 3 <code>\AtStockUpperLeft</code> : New 3 <code>\AtTextUpperLeft</code> : Works now for class <code>memoir</code> 3
v1.0	General: New commands <code>\LenToUnit</code> , <code>\AtPageUpperLeft</code> , <code>\AtPageCenter</code> , <code>\AtTextUpperLeft</code> , and <code>\AtTextCenter</code> 1	v2.0b	<code>\AddToShipoutPictureFG</code> : New command <code>\AddToShipoutPictureFG</code> 5
v1.0a	<code>\ClearShipoutPictureFG</code> : Changed <code>\let</code> to <code>\global\let</code> (suggested by Alberto Lusiani). . . . 5	v2.0c	<code>\AtBeginShipoutUpperLeftForeground</code> : bugfix for <code>memoir</code> class (reported by YI Hoze) 5
v1.0c	General: New command <code>\AtTextLowerLeft</code> and corrections to <code>\AtTextUpperLeft</code> 1	v2.0d	General: grid should be in foreground 9 Improved color commands 7
v1.0d	<code>\LenToUnit</code> : Using <code>\providecommand</code> instead of <code>\newcommand</code> for <code>\LenToUnit</code> 2	v2.0e	<code>\AtTextUpperLeft</code> : Wrong horizontal position in one-column mode 3
v1.1	General: New commands and package options for background grids. 1	v2.0f	<code>\LenToUnit</code> : Changed definition for better compatibility with package <code>curve2e</code> suggested by Claudio Beccari. 2
v1.1a	<code>\ESO@gridpicture</code> : Font setting added. 9		

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