

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> <code>\AddToShipoutPictureFG*</code>	Works like <code>\AddToShipoutPictureBG</code> but the picture commands are on the top of the normal document content.
<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> <code>\LenToUnit</code>	A call of <code>\ClearShipoutPictureFG</code> clears the contents of <code>\ESO@HookIFG</code> . [Allows a length as parameter to a picture command.] Note that this macro exist only for compatibility to older versions of this package. A recent \LaTeX version allows dimensions in picture commands.
<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 v3.0a`, dated 2020/10/14.

`\AtPageUpperLeft` Helper macros for easier positioning on the page.

`\AtPageLowerLeft`

`\AtPageCenter`

`\AtTextUpperLeft`

`\AtTextLowerLeft`

`\AtTextCenter`

`\AtStockUpperLeft`

`\AtStockLowerLeft`

`\AtStockCenter`

2.2 Package options

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

3 Implementation

3.1 The main functionality

`\LenToUnit` Only for compatibility

```

1 \providecommand*\LenToUnit[1]{#1}
2 \newdimen\ESO@tempdima
3 \newdimen\ESO@tempdimb
```

`\ESO@isMEMOIR` Support for the memoir class.

```

4 \newcommand\ESO@isMEMOIR[2]{#2}
5 \@ifclassloaded{memoir}{\renewcommand\ESO@isMEMOIR[2]{#1}}{}
```

`\AtPageUpperLeft`

```

6 \newcommand\AtPageUpperLeft[1]{%
7   \put(0,-\ESO@yoffsetI){#1}%
8 }
```

`\AtPageLowerLeft`

```

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

\AtPageCenter

```
11 \newcommand\AtPageCenter[1]{\AtPageUpperLeft{%  
12 \put(.5\paperwidth,-.5\paperheight){#1}}%  
13 }
```

\AtStockLowerLeft

```
14 \newcommand\AtStockLowerLeft{}  
15 \ESO@isMEMOIR{%  
16 \renewcommand\AtStockLowerLeft[1]{%  
17 \begingroup  
18 \ESO@tempdima=-\stockwidth  
19 \advance\ESO@tempdima\trimedge  
20 \advance\ESO@tempdima\paperwidth  
21 \if@twoside\ifodd\c@page\else  
22 \ESO@tempdima=-\trimedge  
23 \fi\fi  
24 \ESO@tempdimb=-\stockheight  
25 \advance\ESO@tempdimb\paperheight  
26 \advance\ESO@tempdimb\trimtop  
27 \AtPageLowerLeft{%  
28 \put(\ESO@tempdima,\ESO@tempdimb){#1}}%  
29 }%  
30 \endgroup  
31 }  
32 }{%  
33 \let\AtStockLowerLeft=\AtPageLowerLeft  
34 }
```

\AtStockUpperLeft

```
35 \newcommand\AtStockUpperLeft{}  
36 \ESO@isMEMOIR{%  
37 \renewcommand\AtStockUpperLeft[1]{%  
38 \AtStockLowerLeft{%  
39 \put(0,\stockheight){#1}}%  
40 }%  
41 }%  
42 }{%  
43 \let\AtStockUpperLeft=\AtPageUpperLeft  
44 }
```

\AtStockCenter

```
45 \newcommand\AtStockCenter{}  
46 \ESO@isMEMOIR{%  
47 \renewcommand\AtStockCenter[1]{%  
48 \AtStockLowerLeft{%  
49 \put(.5\stockwidth,.5\stockheight){#1}}%  
50 }%  
51 }%  
52 }{%  
53 \let\AtStockCenter=\AtPageCenter  
54 }
```

\AtTextUpperLeft

```

55 \ESO@isMEMOIR{%
56   \newcommand\AtTextUpperLeft[1]{%
57     \begingroup
58       \ifodd\c@page
59         \ESO@tempdima=\spinemargin
60       \else
61         \ESO@tempdima=\paperwidth
62         \advance\ESO@tempdima-\textwidth
63         \advance\ESO@tempdima-\spinemargin
64       \fi
65       \ESO@tempdimb=-\uppermargin
66       \AtPageUpperLeft{%
67         \put(\ESO@tempdima,\ESO@tempdimb){#1}%
68       }%
69     \endgroup
70   }
71 }{%
72   \newcommand\AtTextUpperLeft[1]{%
73     \begingroup
74       \ESO@tempdima=1in\relax
75       \if@twoside
76         \ifodd\c@page
77           \advance\ESO@tempdima\oddsidemargin
78         \else
79           \advance\ESO@tempdima\evensidemargin
80         \fi
81       \else
82         \advance\ESO@tempdima\oddsidemargin
83       \fi
84       \ESO@tempdimb=-1in\relax
85       \advance\ESO@tempdimb-\topmargin
86       \advance\ESO@tempdimb-\headheight
87       \advance\ESO@tempdimb-\headsep
88       \AtPageUpperLeft{%
89         \put(\ESO@tempdima,\ESO@tempdimb){#1}%
90       }%
91     \endgroup
92   }
93 }

```

\AtTextLowerLeft

```

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

```

\AtTextCenter

```

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

```

\ESO@HookIBG

```

\ESO@HookIIBG 98 \newcommand{\ESO@HookIBG}{}
\ESO@HookIIIBG 99 \newcommand{\ESO@HookIIBG}{}
\ESO@HookIFG 100 \newcommand{\ESO@HookIIIBG}{}
\ESO@HookIIFG 101 \newcommand{\ESO@HookIFG}{}
\ESO@HookIIIFG 102 \newcommand{\ESO@HookIIFG}{}

```

```

103 \newcommand{\ESO@HookIIIFG}{}
104 \newcommand{\ESO@HookI}{}
105 \newcommand{\ESO@HookII}{}
106 \newcommand{\ESO@HookIII}{}
107 \let\ESO@HookI=\ESO@HookIBG
108 \let\ESO@HookII=\ESO@HookIIBG
109 \let\ESO@HookIII=\ESO@HookIIIBG

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

\AddToShipoutPictureFG
114 \newcommand{\AddToShipoutPictureFG}{%
115 \ifstar{\g@addto@macro\ESO@HookIIIFG}{\g@addto@macro\ESO@HookIFG}}

\ClearShipoutPictureBG
\ClearShipoutPicture 116 \newcommand{\ClearShipoutPictureBG}{\global\let\ESO@HookIBG\@empty}
\ClearShipoutPictureFG 117 \newcommand{\ClearShipoutPicture}{}
118 \let\ClearShipoutPicture=\ClearShipoutPictureBG
119 \newcommand{\ClearShipoutPictureFG}{\global\let\ESO@HookIFG\@empty}

120 \ESO@isMEMOIR{%
121 \newcommand*\ESO@MEMOIR@corr{%
122 \ESO@tempdima=-\trimedge
123 \advance\ESO@tempdima-\paperwidth
124 \advance\ESO@tempdima\stockwidth
125 \if@twoside\ifodd\c@page\else
126 \advance\ESO@tempdima2\trimedge
127 \advance\ESO@tempdima\paperwidth
128 \advance\ESO@tempdima-\stockwidth
129 \fi\fi
130 \ESO@tempdimb=\ESO@yoffsetI
131 \advance\ESO@tempdimb-\trimtop
132 }
133 \nointerlineskip
134 \AddToHook{shipout/background}{%
135 \ESO@MEMOIR@corr
136 \put(\ESO@tempdima,\ESO@tempdimb){%
137 \ESO@HookIIIBG\ESO@HookIBG\ESO@HookIIBG
138 \global\let\ESO@HookIIBG\@empty
139 }%
140 }%
141 \AddToHook{shipout/foreground}{%
142 \ESO@MEMOIR@corr
143 \put(\ESO@tempdima,\ESO@tempdimb){%
144 \ESO@HookIFG\ESO@HookIIIFG\ESO@HookIIIFG
145 \global\let\ESO@HookIIIFG\@empty
146 }%
147 }%
148 }{%

```

```

149 \nointerlineskip
150 \AddToHook{shipout/background}{%
151   \put(0,\ESO@yoffsetI){%
152     \ESO@HookIIBG\ESO@HookIBG\ESO@HookIIBG
153     \global\let\ESO@HookIIBG\@empty
154   }%
155 }%
156 \AddToHook{shipout/foreground}{%
157   \put(0,\ESO@yoffsetI){%
158     \ESO@HookIFG\ESO@HookIIFG\ESO@HookIIFG
159     \global\let\ESO@HookIIFG\@empty
160   }%
161 }%
162 }

```

3.2 The background grid

```

163 \RequirePackage{keyval}

Initialising some macros
164 \newif\ifESO@dvinfos\ESO@dvinfosfalse \newif\ifESO@grid\ESO@gridfalse
165 \newif\ifESO@texcoord\ESO@texcoordfalse \newif\ifESO@gridBG\ESO@gridBGfalse
166 \newcommand*\ESO@gridunitname{}
167 \newcommand*\ESO@gridunit{}
168 \newcommand*\ESO@labelfactor{}
169 \newcommand*\ESO@griddelta{}\newcommand*\ESO@griddeltaY{}
170 \newcommand*\ESO@gridDelta{}\newcommand*\ESO@gridDeltaY{}
171 \newcommand*\ESO@gridcolor{}
172 \newcommand*\ESO@subgridcolor{}
173 \newcommand*\ESO@subgridstyle{dotted}% ???
174 \newcommand*\ESO@gap{}
175 \newcommand*\ESO@yoffsetI{}\newcommand*\ESO@yoffsetII{}
176 \newcommand*\ESO@gridlines{\thinlines}
177 \newcommand*\ESO@subgridlines{\thinlines}
178 \newcommand*\ESO@hline[1]{\ESO@subgridlines\line(1,0){#1}}
179 \newcommand*\ESO@vline[1]{\ESO@subgridlines\line(0,1){#1}}
180 \newcommand*\ESO@Hline[1]{\ESO@gridlines\line(1,0){#1}}
181 \newcommand*\ESO@Vline[1]{\ESO@gridlines\line(0,1){#1}}
182 \newcommand\ESO@fcolorbox[3]{\fbox{#3}}
183 \newcommand\ESO@color[1]{}
184 \newcommand\ESO@colorbox[2]{%
185   \begingroup
186     \fboxrule=\z@\fbox{#2}%
187   \endgroup
188 }

\gridSetup

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

```

All the key-value options

```

193 \define@key{ESO}{texcoord}[true]{\csname ESO@texcoord#1\endcsname}
194 \define@key{ESO}{pscoord}[true]{\csname @tempwa#1\endcsname}

```

```

195 \if@tempswa\ESO@texcoordfalse\else\ESO@texcoordtrue\fi}
196 \define@key{ESO}{dvips}[true]{\csname ESO@dvips#1\endcsname}
197 \define@key{ESO}{grid}[true]{\csname ESO@grid#1\endcsname}
198 \setkeys{ESO}{gridcolor=black,subgridcolor=black}
199 \define@key{ESO}{gridBG}[true]{\csname ESO@gridBG#1\endcsname}
200 \define@key{ESO}{colorgrid}[true]{\csname ESO@grid#1\endcsname}
201 \setkeys{ESO}{gridcolor=red,subgridcolor=green}
202 \define@key{ESO}{gridcolor}{\def\ESO@gridcolor{#1}}
203 \define@key{ESO}{subgridcolor}{\def\ESO@subgridcolor{#1}}
204 \define@key{ESO}{subgridstyle}{\def\ESO@subgridstyle{#1}}%
205 \define@key{ESO}{gridunit}{%
206 \def\@tempa{#1}
207 \def\@tempb{bp}
208 \ifx\@tempa\@tempb
209 \gridSetup[\@tempa]{1bp}{1}{10}{50}{2}
210 \else
211 \def\@tempb{pt}
212 \ifx\@tempa\@tempb
213 \gridSetup[\@tempa]{\p@}{1}{10}{50}{2}
214 \else
215 \def\@tempb{in}
216 \ifx\@tempa\@tempb
217 \gridSetup[\@tempa]{.1in}{.1}{2}{10}{.5}
218 \else
219 \gridSetup[mm]{1mm}{1}{5}{20}{1}
220 \fi
221 \fi
222 \fi
223 }
224 \setkeys{ESO}{subgridstyle=solid,pscoord=true,gridunit=mm}

225 \providecommand*\@classoptionslist{}

```

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

```

226 \def\ProcessOptionsWithKV#1{%
227 \let\@tempc\@empty
228 \@for\CurrentOption:=\@classoptionslist\do{%
229 \ifundefined{KV#1@\CurrentOption}%
230 {}{\edef\@tempc{\@tempc,\CurrentOption,}}}%
231 \edef\@tempc{%
232 \noexpand\setkeys{#1}{\@tempc\optionlist{\@currname.\@current}}}%
233 \@tempc
234 \AtEndOfPackage{\let\unprocessedoptions\relax}}%

235 \ProcessOptionsWithKV{ESO}%

```

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

```

236 \newcommand\ESO@div[2]{%
237 \ESO@tempdima=#1\relax\ESO@tempdimb=\ESO@gridunit\relax
238 \ESO@tempdimb=#2\ESO@tempdimb\divide\ESO@tempdima by \ESO@tempdimb
239 \@tempcnta\ESO@tempdima\advance\@tempcnta\@ne}

240 \ifundefined{colorbox}{%
241 \IfFileExists{xcolor.sty}{\RequirePackage{xcolor}}%

```

```

242     {\RequirePackage{color}}%
243 }{}%
244 \let\ESO@color=\color
245 \renewcommand\ESO@colorbox[2]{%
246   \begingroup
247     \fboxsep=.4ex %
248     \colorbox{#1}{#2}%
249   \endgroup
250 }
251 \renewcommand\ESO@fcolorbox[3]{%
252   \begingroup
253     \fboxsep=.5ex %
254     \fcolorbox{#1}{#2}{#3}%
255   \endgroup
256 }
257 \AtBeginDocument{%
258   \ESO@dviupsfalse
259   \@ifundefined{Gin@driver}{}%
260   {%
261     \ifx\Gin@driver\@empty\else%
262       \filename@parse{\Gin@driver}\def\reserved@a{dvips}%
263       \ifx\filename@base\reserved@a\ESO@dviupstrue\fi
264     \fi
265   }%
266   \ifESO@dviups\def\@tempb{eepic}\else\def\@tempb{epic}\fi
267   \def\@tempa{dotted}%\def\ESO@gap{6\@wholewidth}%
268   \ifx\@tempa\ESO@subgridstyle
269     \IfFileExists{\@tempb.sty}%
270     {%
271       \RequirePackage{\@tempb}
272       \renewcommand*\ESO@hline[1]{\ESO@subgridlines\dottedline{\ESO@gap}%
273         (0,0)(##1,0)}
274       \renewcommand*\ESO@vline[1]{\ESO@subgridlines\dottedline{\ESO@gap}%
275         (0,0)(0,##1)}
276     }{}
277   \else
278     \ifx\ESO@gridcolor\ESO@subgridcolor
279       \renewcommand*\ESO@gridlines{\thicklines}
280     \fi
281   \fi
282 }
283 \ifESO@texcoord
284   \def\ESO@yoffsetI{\z@}\def\ESO@yoffsetII{-\paperheight}
285   \edef\ESO@griddeltaY{-\ESO@griddelta}\edef\ESO@gridDeltaY{-\ESO@gridDelta}
286 \else
287   \def\ESO@yoffsetI{-\paperheight}\def\ESO@yoffsetII{\z@}
288   \edef\ESO@griddeltaY{\ESO@griddelta}\edef\ESO@gridDeltaY{\ESO@gridDelta}
289 \fi

```

\ESO@gridpicture

```

290 \newcommand\ESO@gridpicture{%
291   \begingroup
292     \setlength\unitlength{\ESO@gridunit}%
293     \ESO@color{\ESO@subgridcolor}%

```



```

— horizontal subgrid lines —
294   \ESO@div{\paperheight}{\ESO@griddelta}%
295   \multiput(0,0)(0,\ESO@griddeltaY){\@tempcnta}%
296   {\ESO@hline{\paperwidth}}%

— vertical subgrid lines —
297   \ESO@div{\paperwidth}{\ESO@griddelta}%
298   \multiput(0,\ESO@yoffsetII)(\ESO@griddelta,0){\@tempcnta}%
299   {\ESO@vline{\paperheight}}%
300   \ESO@color{\ESO@gridcolor}%

— horizontal grid lines —
301   \ESO@div{\paperheight}{\ESO@gridDelta}%
302   \multiput(0,0)(0,\ESO@gridDeltaY){\@tempcnta}%
303   {\ESO@Hline{\paperwidth}}%

— vertical grid lines —
304   \ESO@div{\paperwidth}{\ESO@gridDelta}%
305   \multiput(0,\ESO@yoffsetII)(\ESO@gridDelta,0){\@tempcnta}%
306   {\ESO@Vline{\paperheight}}%

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

— vertical numbers —
317   \ifx\ESO@gridunitname\@empty\def\@tempa{0}\else\def\@tempa{1}\fi
318   \ESO@div{\paperheight}{\ESO@gridDelta}%
319   \multiput(\ESO@gridDelta,0)(0,\ESO@gridDeltaY){\@tempcnta}{%
320     \@tempcntb=\@tempcnta\advance\@tempcntb-\@multicnt%
321     \ifnum\@tempcntb>\@tempa\relax
322       \multiply\@tempcntb by \ESO@gridDelta\relax%
323       \ESO@tempdima=\@tempcntb sp\ESO@tempdima=\ESO@labelfactor\ESO@tempdima
324       \@tempcntb=\ESO@tempdima
325       \makebox(0,0)[c]{\ESO@colorbox{white}{\the\@tempcntb}}%
326     \fi
327   }%

— the unit label —
328   \ifx\ESO@gridunitname\@empty\else
329     \thicklines\fbboxrule=\@wholewidth
330     \put(\ESO@gridDelta,\ESO@gridDeltaY){\makebox(0,0)[c]{%
331       \ESO@fcolorbox{\ESO@gridcolor}{white}{%
332         \textbf{\ESO@gridunitname}}}}%
333   \fi
334   \normalcolor%
335   \endgroup
336 }

```

Add the grid to the shipout picture (`\ESO@HookIIIFG` or `\ESO@HookIIIBG`) is indended from the user commands `\AddToShipoutPictureBG` and `\AddToShipoutPictureBG*`).

```

337 \ifESO@grid
338   \ifESO@gridBG
339     \g@addto@macro\ESO@HookIIIBG{\ESO@gridpicture}%
340   \else
341     \g@addto@macro\ESO@HookIIIFG{\ESO@gridpicture}%
342   \fi
343 \fi

```

Change History

v0.4		added.	9
General: Initial version	1	v1.1b	
v0.5		General: New command	
General: Some bug corrections . . .	1	<code>\AtPageLowerLeft</code>	1
v0.6		New package options "texcoord"	
General: Some corrections for		and "pscoord"	1
compatibility with the <code>html</code>		v1.1c	
package suggested by Ross		General: Remove the	
Moore and a licence note	1	disadvantageous check of	
v0.7		'pdfTeX'. Now using with	
General: New command		Xe \LaTeX should be possible. . .	7
<code>\AddToShipoutPicture*</code>	1	v2.0a	
v1.0		<code>\AtStockCenter</code> : New	3
General: New commands		<code>\AtStockLowerLeft</code> : New	3
<code>\LenToUnit</code> ,		<code>\AtStockUpperLeft</code> : New	3
<code>\AtPageUpperLeft</code> ,		<code>\AtTextUpperLeft</code> : Works now for	
<code>\AtPageCenter</code> ,		class <code>memoir</code>	3
<code>\AtTextUpperLeft</code> , and		General: Better test of <code>color/xcolor</code> . . .	7
<code>\AtTextCenter</code>	1	v2.0b	
v1.0a		<code>\AddToShipoutPictureFG</code> : New	
<code>\ClearShipoutPictureFG</code> :		command	
Changed <code>\let</code> to <code>\global\let</code>		<code>\AddToShipoutPictureFG</code>	5
(suggested by Alberto Lusiani).	5	v2.0c	
v1.0c		General: bugfix for <code>memoir</code> class	
General: New command		(reported by YI Hoze)	5
<code>\AtTextLowerLeft</code> and		v2.0d	
corrections to		General: grid should be in	
<code>\AtTextUpperLeft</code>	1	foreground	10
v1.0d		Improved color commands	7
<code>\LenToUnit</code> : Using		v2.0e	
<code>\providecommand</code> instead of		<code>\AtTextUpperLeft</code> : Wrong	
<code>\newcommand</code> for <code>\LenToUnit</code>	2	horizontal position in	
v1.1		one-column mode	3
General: New commands and		v2.0f	
package options for background		<code>\LenToUnit</code> : Changed definition	
grids.	1	for better compatibility with	
v1.1a		package <code>curve2e</code> suggested by	
<code>\ESO@gridpicture</code> : Font setting		Claudio Beccari.	2

v2.0g	General: Foreground/background grid. 10	v2.0h	General: \@classoptionslist must not be \relax 7
	New \ifESO@gridBG for foreground/background grid. . . 6	v3.0a	\LenToUnit: No more used. (RN). 2
	New macro \ESO@HookIIIFG for foreground grid. 4		General: LaTeX's shipout hooks instead of 'atbegshi' (RN). . . . 5
	New option 'gridBG'. 6		

Index

Numbers written in *italic* 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	\AddToShipoutPictureBG	\ClearShipoutPictureBG
\@classoptionslist 225, 228 <i>1</i> , <u>110</u> <i>1</i> , <u>116</u>
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