The eso-pic package*

Rolf Niepraschk niepraschk@ptb.de

Abstract

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

1 Introduction

This package is an extension to Martin Schröder's everyshi package. Using everyshi's \EveryShipout command eso-pic adds one or more userdefined picture commands to LATEX's shipout routine.

2 Usage

2.1 Basic commands for adding LATEX stuff to the page background

\AddToShipoutPicture

All the picture commands which are parameters of an \AddToShipoutPicture command will be added to the internal macro \ESO@HookI. This macro is part of a zero-length picture environment with basepoint at the lower left corner of the page (default) or at the upper left corner (package option "texcoord"). The picture environment will be shipped out at every new page.

\ClearShipoutPicture \AddToShipoutPicture* A call of \ClearShipoutPicture clears the contents of \ESO@HookI.

\AddToShipoutPicture* works like \AddToShipoutPicture but only for the current page. It used the internal macro \ESO@HookII which contents will be removed automatically.

\LenToUnit \gridSetup Allows a length as parameter to a picture command. $\gridSetup[\langle gridunitname \rangle] \{\langle gridunit \rangle\} \{\langle labelfactor \rangle\} \{\langle griddelta \rangle\}\}$

 $\{\langle gridDelta \rangle\}$ $\{\langle gap \rangle\}$. For details see the implementation section.

Helper macros for easier positioning on the page.

\AtPageUpperLeft
\AtPageLowerLeft
\AtPageCenter
\AtTextUpperLeft
\AtTextLowerLeft
\AtTextCenter

^{*}This document corresponds to eso-pic v1.1b, dated 2002/11/16.

2.2 Package options

Option	Value	Comments
pscoord	empty or true, false	The zero point of the coordinate system
		is the lower left corner of the page (the
		default).
texcoord	empty or true, false	The zero point of the coordinate system
		is the upper left corner of the page.
grid	empty or true, false	A grid is drawing; default: false.
gridunit	mm, in, bp, pt	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	solid or dotted	'dotted' is very slow! default: solid.
colorgrid	empty or true, false	Shortcut for 'grid=true', 'gridcolor=red'
		and 'subgridcolor=green'; default: false.
dvips	empty or true, false	Is also true if the package option dvips is
		used by color or graphics. If true package
		eepic is loaded for better performance of
		dotted lines.

3 Implementation

3.1 The main functionality

```
1 \RequirePackage{everyshi}
```

\LenToUnit

2 \newcommand\LenToUnit[1]{#1\@gobble}

\AtPageUpperLeft

- 3 \newcommand\AtPageUpperLeft[1]{%
- 4 \begingroup
- 6 \put(\LenToUnit{\@tempdima},\LenToUnit{\@tempdimb}){#1}%
- 7 \endgroup
- 8 }

\AtPageLowerLeft

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

\AtPageCenter

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

\AtTextUpperLeft

- 14 \newcommand\AtTextUpperLeft[1]{%
- 15 \begingroup

```
\setlength\@tempdima{1in}%
                      16
                            \ifodd\c@page%
                      17
                              \advance\@tempdima\oddsidemargin%
                      18
                      19
                            \else%
                              \advance\@tempdima\evensidemargin%
                      20
                      21
                            \@tempdimb=\ESO@yoffsetI\relax\advance\@tempdimb-1in\relax%
                      22
                            \advance\@tempdimb-\topmargin%
                      23
                            \advance\@tempdimb-\headheight\advance\@tempdimb-\headsep%
                      24
                      25
                            \put(\LenToUnit{\@tempdima},\LenToUnit{\@tempdimb}){#1}%
                      26
                          \endgroup
                      27 }
   \AtTextLowerLeft
                      28 \mbox{ $\mbox{$\mbox{$\sim$}} 1] {\mbox{$\sim$}} textUpperLeft{\%}
                         \put(0,\LenToUnit{-\textheight}){#1}}}
       \AtTextCenter
                      30 \newcommand\AtTextCenter[1] {\AtTextUpperLeft{%
                         \put(\LenToUnit{.5\textwidth},\LenToUnit{-.5\textheight}){#1}}
         \ESO@HookI
        \ESO@HookII
                      32 \newcommand{\ESO@HookI}{} \newcommand{\ESO@HookII}{}
       \ESO@HookIII
                     33 \newcommand{\ESO@HookIII}{}
\AddToShipoutPicture
                      34 \newcommand{\AddToShipoutPicture}{%
                         \@ifstar{\g@addto@macro\ESO@HookII}{\g@addto@macro\ESO@HookI}}
\ClearShipoutPicture
                      \ESO@isMEMOIR Support for the memoir class.
                      37 \newcommand\ESO@isMEMOIR[1]{}
                      38 \@ifclassloaded{memoir}{\renewcommand\ESO@isMEMOIR[1]{#1}}{}
   \@ShipoutPicture
                      39 \newcommand{\@ShipoutPicture}{%
                         \bgroup
                      40
                            \@tempswafalse%
                      41
                            \ifx\ESO@HookI\@empty\else\@tempswatrue\fi%
                      42
                      43
                            \ifx\ESO@HookII\@empty\else\@tempswatrue\fi%
                            \ifx\ESO@HookIII\@empty\else\@tempswatrue\fi%
                      44
                      45
                            \if@tempswa%
                      46
                              \@tempdima=1in\@tempdimb=-\@tempdima%
                              \advance\@tempdimb\ESO@yoffsetI%
                      47
                              \ESO@isMEMOIR{%
                      48
                                \advance\@tempdima\trimedge%
                      49
                                \advance\@tempdima\paperwidth%
                                \advance\@tempdima-\stockwidth%
                      51
                                \if@twoside\ifodd\c@page\else%
                      52
                                  \advance\@tempdima-2\trimedge%
                      53
                                  \advance\@tempdima-\paperwidth%
                      54
```

```
\advance\@tempdima\stockwidth%
55
          \fi\fi%
56
          \advance\@tempdimb\trimtop}%
57
        \unitlength=1pt%
        \global\setbox\@cclv\vbox{%
59
          \vbox{\let\protect\relax
60
            \pictur@(0,0)(\strip@pt\@tempdima,\strip@pt\@tempdimb)%
61
               \ESO@HookIII\ESO@HookI\ESO@HookII%
62
               \global\let\ESO@HookII\@empty%
63
            \endpicture}%
65
            \nointerlineskip%
          \box\@cclv}%
66
67
      \fi
68
    \egroup
69 }
70 \EveryShipout{\@ShipoutPicture}
      The background grid
71 \RequirePackage{keyval}
Initialising some macros
72 \newif\ifESO@dvips\ESO@dvipsfalse \newif\ifESO@grid\ESO@gridfalse
73 \newif\ifESO@texcoord\ESO@texcoordfalse
74 \newcommand*\ESO@gridunitname{}
75 \newcommand*\ESO@gridunit{}
76 \newcommand*\ESO@labelfactor{}
77 \newcommand*\ESO@griddelta{}\newcommand*\ESO@griddeltaY{}
78 \newcommand*\ESO@gridDelta{}\newcommand*\ESO@gridDeltaY{}
79 \newcommand*\ESO@gridcolor{}
80 \newcommand*\ESO@subgridcolor{}
81 \newcommand*\ESO@subgridstyle{dotted}% ???
82 \newcommand*\ESO@gap{}
83 \newcommand*\ESO@yoffsetI{}\newcommand*\ESO@yoffsetII{}
84 \newcommand*\ESO@gridlines{\thinlines}
85 \newcommand*\ESO@subgridlines{\thinlines}
86 \newcommand*\ESO@hline[1]{\ESO@subgridlines\line(1,0){#1}}
87 \newcommand*\ESO@vline[1]{\ESO@subgridlines\line(0,1){#1}}
88 \newcommand*\ESO@Hline[1]{\ESO@gridlines\line(1,0){#1}}
89 \newcommand*\ESO@Vline[1]{\ESO@gridlines\line(0,1){#1}}
90 \newcommand\ESO@fcolorbox[4][]{\fbox{#4}}
```

\gridSetup

94 95

96 }

```
97 \newcommand\gridSetup[6][]{%
98 \edef\ESO@gridunitname{#1}\edef\ESO@gridunit{#2}
99 \edef\ESO@labelfactor{#3}\edef\ESO@griddelta{#4}
00 \edef\ESO@gridDelta{#5}\edef\ESO@gap{#6}}
```

91 \newcommand\ESO@color[1]{}
92 \newcommand\ESO@colorbox[3][]{%

 $\footnotemester \footnotemester \footnotemes$

\begingroup

\endgroup

```
101 \define@key{ESO}{texcoord}[true]{\csname ESO@texcoord#1\endcsname}
                       102 \define@key{ESO}{pscoord}[true]{\csname @tempswa#1\endcsname
                           \if@tempswa\ESO@texcoordfalse\else\ESO@texcoordtrue\fi}
                       104 \define@key{ESO}{dvips}[true]{\csname ESO@dvips#1\endcsname}
                       105 \define@key{ESO}{grid}[true]{\csname ESO@grid#1\endcsname
                            \setkeys{ESO}{gridcolor=black,subgridcolor=black}}
                      107 \define@key{ESO}{colorgrid}[true]{\csname ESO@grid#1\endcsname
                            \setkeys{ESO}{gridcolor=red,subgridcolor=green}}
                       109 \define@key{ESO}{gridcolor}{\def\ESO@gridcolor{#1}}
                      110 \define@key{ESO}{subgridcolor}{\def\ESO@subgridcolor{#1}}
                      111 \define@key{ESO}{subgridstyle}{\def\ESO@subgridstyle{#1}}%
                       112 \define@key{ESO}{gridunit}{%
                      113
                            \def\@tempa{#1}
                       114
                            \def\@tempb{bp}
                       115
                            \ifx\@tempa\@tempb
                       116
                              \gridSetup[\@tempa]{1bp}{1}{10}{50}{2}
                       117
                            \else
                              \def\@tempb{pt}
                       118
                       119
                              \ifx\@tempa\@tempb
                       120
                                \gridSetup[\@tempa]{1pt}{1}{10}{50}{2}
                       121
                              \else
                       122
                                \def\@tempb{in}
                                \ifx\@tempa\@tempb
                                  \gridSetup[\@tempa]{.1in}{.1}{2}{10}{.5}
                       124
                       125
                                \else
                                  \gridSetup[mm]{1mm}{1}{5}{20}{1}
                       126
                                \fi
                       127
                              \fi
                       128
                            \fi
                       129
                       130 }
                       131 \setkeys{ESO}{subgridstyle=solid,pscoord=true,gridunit=mm}
                      This macro can process package options using 'key=value' syntax.
\ProcessOptionsWithKV
                      132 \def\ProcessOptionsWithKV#1{\%
                            \let\@tempc\@empty
                            \@for\CurrentOption:=\@classoptionslist\do{%
                       134
                              \@ifundefined{KV@#1@\CurrentOption}%
                       136
                              {}{\edef\@tempc{\@tempc,\CurrentOption,}}}%
                       137
                            \edef\@tempc{%
                              \noexpand\setkeys{#1}{\@tempc\@ptionlist{\@currname.\@currext}}}%
                       138
                       139
                            \AtEndOfPackage{\let\@unprocessedoptions\relax}}%
                       141 \ProcessOptionsWithKV{ESO}%
             \ESO@div Divides length #1 by #2 × \ESO@gridunit and adds one. Result is in \@tempcnta.
                       142 \newcommand\ESO@div[2]{%
                            \@tempdima=#1\relax\@tempdimb=\ESO@gridunit\relax
                            \@tempdimb=#2\@tempdimb\divide\@tempdima by \@tempdimb%
                            \@tempcnta\@tempdima\advance\@tempcnta\@ne}
                       146 \AtBeginDocument{%
                       147 \IfFileExists{color.sty}
```

All the key-value options

```
\let\ESO@color=\color\let\ESO@colorbox=\colorbox
                                         150
                                                         \let\ESO@fcolorbox=\fcolorbox
                                         151
                                         152
                                                    \@ifundefined{Gin@driver}{}%
                                         153
                                         154
                                                         \ifx\Gin@driver\@empty\else%
                                         155
                                                              \filename@parse{\Gin@driver}\def\reserved@a{dvips}%
                                         156
                                         157
                                                              \ifx\filename@base\reserved@a\ESO@dvipstrue\fi%
                                         158
                                         159
                                                    \ifx\pdfoutput\undefined\else
                                         160
                                                         \ifx\pdfoutput\relax\else
                                         161
                                                              \ifcase\pdfoutput\else
                                         162
                                                                   \ESO@dvipsfalse%
                                         163
                                         164
                                                              \fi
                                                         \fi
                                         165
                                         166
                                                    \ifESO@dvips\def\@tempb{eepic}\else\def\@tempb{epic}\fi
                                         167
                                                    168
                                                    \ifx\@tempa\ESO@subgridstyle
                                         169
                                         170
                                                         \IfFileExists{\@tempb.sty}%
                                         171
                                                              \RequirePackage{\@tempb}
                                         172
                                                              \renewcommand*\ESO@hline[1]{\ESO@subgridlines\dottedline{\ESO@gap}%
                                         173
                                         174
                                                                   (0,0)(##1,0)
                                                              \renewcommand*\ESO@vline[1]{\ESO@subgridlines\dottedline{\ESO@gap}%
                                         175
                                                                   (0,0)(0,\#1)
                                         176
                                         177
                                                         }{}
                                         178
                                                    \else
                                                         \ifx\ESO@gridcolor\ESO@subgridcolor%
                                         179
                                                              \renewcommand*\ESO@gridlines{\thicklines}
                                         180
                                                         \fi
                                         181
                                                    \fi
                                         182
                                         183 }
                                         184 \ifESO@texcoord
                                                    \def\ESO@yoffsetI{Opt}\def\ESO@yoffsetII{-\paperheight}
                                                    \verb|\edgridde| taY{-\ESO@gridde| ta}| edef{ESO@gridDe| taY{-\ESO@gridDe| ta}| edef{ESO@gridDe| taY{-\ESO@gridDe| ta}| edef{ESO@gridDe| taY{-\ESO@gridDe| ta}| edef{ESO@gridDe| taY{-\ESO@gridDe| taY{-\ESO@gridDe| ta}| edef{ESO@gridDe| taY{-\ESO@gridDe| taY{-\ESO@gri
                                         186
                                         187 \else
                                                    \def\ESO@yoffsetI{\paperheight}\def\ESO@yoffsetII{0pt}
                                                    \edef\ESO@griddeltaY{\ESO@griddelta}\edef\ESO@gridDeltaY{\ESO@gridDelta}
                                         189
                                         190 \fi
\ESO@gridpicture
                                         191 \newcommand\ESO@gridpicture{%
                                         192
                                                    \begingroup
                                         193
                                                          \setlength\unitlength{\ESO@gridunit}%
                                                         \ESO@color{\ESO@subgridcolor}%
                                         194
                                                 horizontal subgrid lines -
                                                         \ESO@div{\paperheight}{\ESO@griddelta}%
                                         195
                                                         \multiput(0,0)(0,\ESO@griddeltaY){\@tempcnta}%
                                         196
                                                              {\ESO@hline{\LenToUnit{\paperwidth}}}%
                                         197
```

{%

\RequirePackage{color}

148

149

```
vertical subgrid lines —
198
       \ESO@div{\paperwidth}{\ESO@griddelta}%
       \multiput(0,\LenToUnit{\ESO@yoffsetII})(\ESO@griddelta,0){\@tempcnta}%
200
         {\ESO@vline{\LenToUnit{\paperheight}}}%
201
       \ESO@color{\ESO@gridcolor}%
   horizontal grid lines -
       \ESO@div{\paperheight}{\ESO@gridDelta}%
202
       \multiput(0,0)(0,\ESO@gridDeltaY){\@tempcnta}%
203
         {\ESO@Hline{\LenToUnit{\paperwidth}}}%
204
   vertical grid lines —
       \ESO@div{\paperwidth}{\ESO@gridDelta}%
205
       \multiput(0, \LenToUnit{\ESO@yoffsetII})(\ESO@gridDelta,0){\@tempcnta}%
206
         {\ESO@Vline{\LenToUnit{\paperheight}}}%
207
   horizontal numbers
       \fontsize{10}{12}\normalfont%
208
       \ESO@div{\paperwidth}{\ESO@gridDelta}%
209
       \multiput(0,\ESO@gridDeltaY)(\ESO@gridDelta,0){\@tempcnta}{%
         \@tempcntb=\@tempcnta\advance\@tempcntb-\@multicnt%
211
212
         \ifnum\@tempcntb>1\relax
           \multiply\@tempcntb by \ESO@gridDelta\relax%
213
           \@tempdima=\@tempcntb sp\@tempdima=\ESO@labelfactor\@tempdima%
214
215
           \@tempcntb=\@tempdima%
216
           \mbox(0,0)[c]{\ESO@colorbox{white}{\the\@tempcntb}}%
         fi}%
217
   vertical numbers
218
       \ifx\ESO@gridunitname\@empty\def\@tempa{0}\else\def\@tempa{1}\fi%
219
       \ESO@div{\paperheight}{\ESO@gridDelta}%
       \multiput(\ESO@gridDelta,0)(0,\ESO@gridDeltaY){\@tempcnta}{%
220
         \@tempcntb=\@tempcnta\advance\@tempcntb-\@multicnt%
221
222
         \ifnum\@tempcntb>\@tempa\relax
223
           \multiply\@tempcntb by \ESO@gridDelta\relax%
224
           \@tempdima=\@tempcntb sp\@tempdima=\ESO@labelfactor\@tempdima%
           \@tempcntb=\@tempdima%
           \mbox(0,0)[c]{\ESO@colorbox\{white}{\the\@tempcntb}}\%
226
227
         \fi
       ጉ%
228
   the unit label —
       \ifx\ESO@gridunitname\@empty\else%
229
         \thicklines\fboxrule=\@wholewidth%
230
         \put(\ESO@gridDelta,\ESO@gridDeltaY){\makebox(0,0)[c]{%
231
232
           \ESO@fcolorbox{\ESO@gridcolor}{white}{%
             \textbf{\ESO@gridunitname}}}}%
233
234
       \fi
       \normalcolor%
235
     \endgroup
236
237 }
Add the grid to the shipout picture (\ESO@HookIII is independed from the user
```

Change History

v0.4	\AtPageCenter, \AtTextUpperLeft,
General: Initial version 1	and \AtTextCenter 1
v0.5	v1.0a
General: Some bug corrections 1	\ClearShipoutPicture: Changed
v0.6	$\$ to $\$ let to $\$
General: Some corrections for com-	gested by Alberto Lusiani) 3
patibility with the html package	v1.0b
suggested by Ross Moore and a	\@ShipoutPicture: A new hook
licence note 1	\ESO@HookIII for special pur-
v0.7	pose (suggested by D. P.
General: New command	Story)
\AddToShipoutPicture* 1	
v0.8	General: New command
\@ShipoutPicture: Compatibility	\AtTextLowerLeft and correc-
with the memoir class (sug-	tions to \AtTextUpperLeft 1
8	v1.1
v0.9	General: New commands and pack-
\@ShipoutPicture: \nointerlineskip prevents a small vertical	age options for background
misplacement (suggested by	grids
Stephan Lehmke) 3	\ESO@gridpicture: Font setting
Compatibility with the crop	added
package (better test of mem-	v1.1b
oir) 3	General: New command
v1.0	\AtPageLowerLeft 1
General: New commands	New package options "texcoord"
\LenToUnit, \AtPageUpperLeft,	and "pscoord" 1
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