# The eso-pic package\*

# Rolf Niepraschk Rolf.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 IATEX's shipout routine.

### 2 Usage

See also the example LATEX documents eso-ex?.tex.

# 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 A \gridSetup \g

Allows a length as parameter to a picture command.

Helper macros for easier positioning on the page.

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

<sup>\*</sup>This document corresponds to eso-pic v1.1d, dated 2006/07/14.

### 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.

#### Implementation 3

#### The main functionality

1 \RequirePackage{everyshi}

\LenToUnit

2 \providecommand\*\LenToUnit[1]{#1\@gobble}

\AtPageUpperLeft

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

\AtPageLowerLeft

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

\AtPageCenter

- 8 \newcommand\AtPageCenter[1]{\AtPageUpperLeft{%
- $\label{lem:condition} $$ \displaystyle \operatorname{ChenToUnit}_{-.5}\operatorname{paperheight})_{\#1}}% $$$ 10 }

\AtTextUpperLeft

- 11 \newcommand\AtTextUpperLeft[1]{%
- 12 \begingroup
- \setlength\@tempdima{1in}% 13
- \ifodd\c@page% 14
- \advance\@tempdima\oddsidemargin%

```
\else%
                      16
                              \advance\@tempdima\evensidemargin%
                      17
                      18
                            \@tempdimb=\ESO@yoffsetI\relax\advance\@tempdimb-1in\relax%
                      19
                            \advance\@tempdimb-\topmargin%
                      20
                            \advance\@tempdimb-\headheight\advance\@tempdimb-\headsep%
                      21
                            \put(\LenToUnit{\@tempdima},\LenToUnit{\@tempdimb}){#1}%
                      22
                          \endgroup
                      23
                      24 }
    \AtTextLowerLeft
                      25 \newcommand\AtTextLowerLeft[1]{\AtTextUpperLeft{%
                          \put(0,\LenToUnit{-\textheight}){#1}}}
       \AtTextCenter
                      27 \newcommand\AtTextCenter[1] {\AtTextUpperLeft{%
                         \put(\LenToUnit{.5\textwidth},\LenToUnit{-.5\textheight}){#1}}
         \ESO@HookI
        \ESO@HookII
                      29 \newcommand{\ESO@HookI}{} \newcommand{\ESO@HookII}{}
       \ESO@HookIII
                     30 \newcommand{\ESO@HookIII}{}
\AddToShipoutPicture
                      31 \newcommand{\AddToShipoutPicture}{%
                         \@ifstar{\g@addto@macro\ESO@HookII}{\g@addto@macro\ESO@HookI}}
\ClearShipoutPicture
                      \ESO@isMEMOIR Support for the memoir class.
                      34 \newcommand\ESO@isMEMOIR[1]{}
                      35 \@ifclassloaded{memoir}{\renewcommand\ESO@isMEMOIR[1]{#1}}{}
    \@ShipoutPicture
                      36 \newcommand{\@ShipoutPicture}{%
                          \bgroup
                            \@tempswafalse%
                      38
                            \ifx\ESO@HookI\@empty\else\@tempswatrue\fi%
                      39
                      40
                            \ifx\ESO@HookII\@empty\else\@tempswatrue\fi%
                      41
                            \ifx\ESO@HookIII\@empty\else\@tempswatrue\fi%
                            \if@tempswa%
                      42
                              \verb|\dtempdima=1in\\| \texttt{0tempdimb=-}\\| \texttt{0tempdima}| \\|
                      43
                              \advance\@tempdimb\ESO@yoffsetI%
                      44
                              \ESO@isMEMOIR{%
                      45
                      46
                                \advance\@tempdima\trimedge%
                                \advance\@tempdima\paperwidth%
                      47
                                \advance\@tempdima-\stockwidth%
                      48
                                \if@twoside\ifodd\c@page\else%
                                  \advance\@tempdima-2\trimedge%
                      50
                                  \advance\@tempdima-\paperwidth%
                      51
                                  \advance\@tempdima\stockwidth%
                      52
                                fi\fi
                      53
                                \advance\@tempdimb\trimtop}%
                      54
```

```
\unitlength=\p0%
55
                               \global\setbox\@cclv\vbox{%
56
                                      \vbox{\let\protect\relax
57
                                              \pictur@(0,0)(\strip@pt\@tempdima,\strip@pt\@tempdimb)%
58
                                                      \ESO@HookIII\ESO@HookI\ESO@HookII%
59
                                                      \global\let\ESO@HookII\@empty%
60
                                              \endpicture}%
61
                                              \nointerlineskip%
62
63
                                      \box\@cclv}%
                       \fi
64
65
                \egroup
66 }
67 \EveryShipout{\@ShipoutPicture}
3.2
                        The background grid
68 \RequirePackage{keyval}
Initialising some macros
69 \ \texttt{\ensuremath{}} if ESO@dvips \texttt{\ensuremath{}} ESO@dvips false \ \texttt{\ensuremath{}} if ESO@grid \texttt{\ensuremath{}} ESO@
70 \newif\ifESO@texcoord\ESO@texcoordfalse
71 \newcommand*\ESO@gridunitname{}
72 \newcommand*\ESO@gridunit{}
73 \newcommand*\ESO@labelfactor{}
74 \newcommand*\ESO@griddelta{}\newcommand*\ESO@griddeltaY{}
75 \newcommand*\ESO@gridDelta{}\newcommand*\ESO@gridDeltaY{}
76 \newcommand*\ESO@gridcolor{}
77 \newcommand*\ESO@subgridcolor{}
78 \newcommand*\ESO@subgridstyle{dotted}% ???
79 \newcommand*\ESO@gap{}
80 \end{*}\ESO@yoffsetI{}\newcommand{*}\ESO@yoffsetII{}\newcommand{*}\ESO@yoffsetII{}\newcommand{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemost{*}\normalemo
81 \newcommand*\ESO@gridlines{\thinlines}
82 \newcommand*\ESO@subgridlines{\thinlines}
83 \newcommand*\ESO@hline[1]{\ESO@subgridlines\line(1,0){#1}}
84 \newcommand*\ESO@vline[1]{\ESO@subgridlines\line(0,1){#1}}
85 \newcommand*\ESO@Hline[1]{\ESO@gridlines\line(1,0){#1}}
86 \newcommand*\ESO@Vline[1]{\ESO@gridlines\line(0,1){#1}}
87 \newcommand\ESO@fcolorbox[4][]{\fbox{#4}}
88 \newcommand\ESO@color[1]{}
89 \newcommand\ESO@colorbox[3][]{%
90
               \begingroup
                       \footnotemark \fboxrule=\z@\fbox{#3}%
91
92
                \endgroup
93 }
94 \newcommand\gridSetup[6][]{%
                \verb|\edgridunitname{#1}| edgridunit{#2}|
95
                \edef\ESO@labelfactor{#3}\edef\ESO@griddelta{#4}
96
                \edef\ESO@gridDelta{#5}\edef\ESO@gap{#6}}
All the key-value options
98 \define@key{ESO}{texcoord}[true]{\csname ESO@texcoord#1\endcsname}
```

\gridSetup

99  $\define@key{ESO}{pscoord}[true]{\csname @tempswa#1\endcsname}$ 

```
101 \define@key{ESO}{dvips}[true]{\csname ESO@dvips#1\endcsname}
                      102 \define@key{ESO}{grid}[true]{\csname ESO@grid#1\endcsname
                           \setkeys{ESO}{gridcolor=black,subgridcolor=black}}
                      104 \define@key{ESO}{colorgrid}[true]{\csname ESO@grid#1\endcsname
                           \setkeys{ESO}{gridcolor=red,subgridcolor=green}}
                      106 \define@key{ESO}{gridcolor}{\def\ESO@gridcolor{#1}}
                      107 \define@key{ESO}{subgridcolor}{\def\ESO@subgridcolor{#1}}
                      108 \define@key{ESO}{subgridstyle}{\def\ESO@subgridstyle{#1}}%
                      109 \define@key{ESO}{gridunit}{%
                           \def\@tempa{#1}
                      110
                           \def\@tempb{bp}
                      111
                           \ifx\@tempa\@tempb
                      112
                             \gridSetup[\0tempa]{1bp}{1}{10}{50}{2}
                      113
                      114
                           \else
                             \def\@tempb{pt}
                      115
                             \ifx\@tempa\@tempb
                      116
                               \gridSetup[\@tempa]{\p@}{1}{10}{50}{2}
                      117
                      118
                               \def\@tempb{in}
                      119
                               \ifx\@tempa\@tempb
                      120
                                 \gridSetup[\0tempa]{.1in}{.1}{2}{10}{.5}
                      121
                      122
                                 \gridSetup[mm]{1mm}{1}{5}{20}{1}
                      123
                      124
                               \fi
                             \fi
                      125
                           \fi
                      126
                      127 }
                      128 \setkeys{ESO}{subgridstyle=solid,pscoord=true,gridunit=mm}
\ProcessOptionsWithKV This macro can process package options using 'key=value' syntax.
                      129 \def\ProcessOptionsWithKV#1{%
                          \let\@tempc\@empty
                           \@for\CurrentOption:=\@classoptionslist\do{%
                             \@ifundefined{KV@#1@\CurrentOption}%
                      132
                             {}{\edef\@tempc{\@tempc,\CurrentOption,}}}%
                      133
                      134
                          \edef\@tempc{%
                             135
                           \@tempc
                      136
                           \AtEndOfPackage{\let\@unprocessedoptions\relax}}%
                      138 \ProcessOptionsWithKV{ESO}%
             \ESO@div Divides length #1 by #2 × \ESO@gridunit and adds one. Result is in \@tempcnta.
                      139 \newcommand\ESO@div[2]{%
                           \@tempdima=#1\relax\@tempdimb=\ESO@gridunit\relax
                           \@tempdimb=#2\@tempdimb\divide\@tempdima by \@tempdimb%
                      142
                           \@tempcnta\@tempdima\advance\@tempcnta\@ne}
                      143 \AtBeginDocument{%
                      144 \IfFileExists{color.sty}
                      145
                           ₹%
                      146
                             \RequirePackage{color}
                             \let\ESO@color=\color\let\ESO@colorbox=\colorbox
                      147
```

\if@tempswa\ESO@texcoordfalse\else\ESO@texcoordtrue\fi}

```
}{}
                                149
                                          \ESO@dvipsfalse
                                150
                                          \@ifundefined{Gin@driver}{}%
                                151
                                152
                                              \ifx\Gin@driver\@empty\else%
                                153
                                                  \filename@parse{\Gin@driver}\def\reserved@a{dvips}%
                                154
                                                 \ifx\filename@base\reserved@a\ESO@dvipstrue\fi%
                                155
                                              \fi
                                156
                                         }%
                                157
                                          \ifESO@dvips\def\@tempb{eepic}\else\def\@tempb{epic}\fi
                                158
                                          159
                                          \ifx\@tempa\ESO@subgridstyle
                                160
                                              \IfFileExists{\@tempb.sty}%
                                161
                                162
                                                  \RequirePackage{\@tempb}
                                163
                                                  \renewcommand*\ESO@hline[1]{\ESO@subgridlines\dottedline{\ESO@gap}%
                                164
                                165
                                                      (0,0)(##1,0)
                                                  \renewcommand*\ESO@vline[1]{\ESO@subgridlines\dottedline{\ESO@gap}%
                                166
                                167
                                                      (0,0)(0,\#1)
                                             }{}
                                168
                                          \else
                                169
                                              \ifx\ESO@gridcolor\ESO@subgridcolor%
                                170
                                                 \renewcommand*\ESO@gridlines{\thicklines}
                                171
                                172
                                              \fi
                                          \fi
                                173
                                174 }
                                175 \ifESO@texcoord
                                          \def\ESO@yoffsetI{\z@}\def\ESO@yoffsetII{-\paperheight}
                                          \edef\ESO@griddeltaY{-\ESO@griddelta}\edef\ESO@gridDeltaY{-\ESO@gridDelta}
                                177
                                178 \else
                                          \def\ESO@yoffsetI{\paperheight}\def\ESO@yoffsetII{\z@}
                                          \verb|\edgridde| taY{\ESO@gridde| ta}| edef\\ ESO@gridDe| taY{\ESO@gridDe| ta}| edef
                                180
                                181 \fi
\ESO@gridpicture
                                182 \newcommand\ESO@gridpicture{%
                                183
                                          \begingroup
                                              \setlength\unitlength{\ESO@gridunit}%
                                184
                                              \ESO@color{\ESO@subgridcolor}%
                                185
                                    – horizontal subgrid lines –
                                              \ESO@div{\paperheight}{\ESO@griddelta}%
                                186
                                              \multiput(0,0)(0,\ESO@griddeltaY){\@tempcnta}%
                                187
                                                  {\ESO@hline{\LenToUnit{\paperwidth}}}%
                                188
                                      vertical subgrid lines —
                                              \ESO@div{\paperwidth}{\ESO@griddelta}%
                                189
                                              \multiput(0,\LenToUnit{\ESO@yoffsetII})(\ESO@griddelta,0){\@tempcnta}%
                                190
                                191
                                                  {\ESO@vline{\LenToUnit{\paperheight}}}%
                                              \ESO@color{\ESO@gridcolor}%
                                192
                                      horizontal grid lines -
                                              \ESO@div{\paperheight}{\ESO@gridDelta}%
                                193
                                              \multiput(0,0)(0,\ESO@gridDeltaY){\@tempcnta}%
                                194
                                                  {\ESO@Hline{\LenToUnit{\paperwidth}}}%
                                195
```

\let\ESO@fcolorbox=\fcolorbox

148

```
    vertical grid lines

       \ESO@div{\paperwidth}{\ESO@gridDelta}%
196
       \multiput(0,\LenToUnit{\ESO@yoffsetII})(\ESO@gridDelta,0){\@tempcnta}%
197
         {\ESO@Vline{\LenToUnit{\paperheight}}}%
198
— horizontal numbers —
       \fontsize{10}{12}\normalfont%
199
       \ESO@div{\paperwidth}{\ESO@gridDelta}%
200
       \multiput(0,\ESO@gridDeltaY)(\ESO@gridDelta,0){\@tempcnta}{%
201
         \@tempcntb=\@tempcnta\advance\@tempcntb-\@multicnt%
202
         \ifnum\@tempcntb>1\relax
203
           \multiply\@tempcntb by \ESO@gridDelta\relax%
204
           \@tempdima=\@tempcntb sp\@tempdima=\ESO@labelfactor\@tempdima%
205
           \@tempcntb=\@tempdima%
206
207
           \mbox(0,0)[c]{\ESO@colorbox{white}{\the\@tempcntb}}%
         fi}%
208
   vertical numbers —
209
       \ifx\ESO@gridunitname\@empty\def\@tempa{0}\else\def\@tempa{1}\fi%
210
       \ESO@div{\paperheight}{\ESO@gridDelta}%
211
       \multiput(\ESO@gridDelta,0)(0,\ESO@gridDeltaY){\@tempcnta}{%
212
         \@tempcntb=\@tempcnta\advance\@tempcntb-\@multicnt%
         \ifnum\@tempcntb>\@tempa\relax
213
           \multiply\@tempcntb by \ESO@gridDelta\relax%
214
           \@tempdima=\@tempcntb sp\@tempdima=\ESO@labelfactor\@tempdima%
215
           \@tempcntb=\@tempdima%
216
           \mbox(0,0)[c]{\ESO@colorbox{white}{\the\@tempcntb}}%
217
         \fi
218
       }%
219
   the unit label
       \ifx\ESO@gridunitname\@empty\else%
220
         \thicklines\fboxrule=\@wholewidth%
221
         \put(\ESO@gridDelta,\ESO@gridDeltaY){\makebox(0,0)[c]{%
222
           \ESO@fcolorbox{\ESO@gridcolor}{white}{%
223
             \textbf{\ESO@gridunitname}}}}%
224
       \fi
225
226
       \normalcolor%
227
     \endgroup
228 }
```

Add the grid to the shipout picture (\ESO@HookIII is independed from the user commands \AddToShipoutPicture and \AddToShipoutPicture\*).

229 \ifESO@grid\g@addto@macro\ESO@HookIII{\ESO@gridpicture}\fi

## Change History

v0.7	pose (suggested by D. P.
General: New command	Story)
\AddToShipoutPicture* 1	v1.0c
v0.8	General: New command
\@ShipoutPicture: Compatibility	\AtTextLowerLeft and correc-
with the memoir class (sug-	tions to \AtTextUpperLeft 1
gested by Andreas Matthias) 3	v1.0d
v0.9	\LenToUnit: Using \providecommand
\@ShipoutPicture:\nointerlineskip	instead of \newcommand for
prevents a small vertical	$\LenToUnit \dots 2$
misplacement (suggested by	v1.1
Stephan Lehmke) 3	General: New commands and pack-
Compatibility with the crop	age options for background
package (better test of mem-	grids 1
oir)	v1.1a
v1.0	\ESO@gridpicture: Font setting
General: New commands	added 7
\LenToUnit, \AtPageUpperLeft,	v1.1b
\AtPageCenter, \AtTextUpperLeft,	General: New command
and \AtTextCenter 1	\AtPageLowerLeft 1
v1.0a	New package options "texcoord"
\ClearShipoutPicture: Changed	and "pscoord" 1
$\$ to $\$ let to $\$	v1.1c
gested by Alberto Lusiani) 3	General: Remove the disadvanta-
v1.0b	geous check of 'pdfTeX'. Now
\@ShipoutPicture: A new hook	using with XeIATEX should be
\ESO@HookIII for special pur-	possible 5

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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.

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