The eso-pic package*

Rolf Niepraschk   翻译:virhuiai

Rolf.Niepraschk@gmx.de   virhuiai@qq.com

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

\AddToShipoutPictureBG

All the picture commands which are parameters of an \AddToShipoutPictureBG command will be added to the internal macro \ESO@HookIBG. 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.

\AddToShipoutPictureBG*

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

For compatibility the macros \AddToShipoutPicture and \AddToShipoutPicture* are aliases for \AddToShipoutPictureBG and \AddToShipoutPictureBG*.

\AddToShipoutPictureFG
\AddToShipoutPictureFG*

Works like \AddToShipoutPictureBG but the picture commands are on the top oft the normal document content.

\ClearShipoutPictureBG

A call of \ClearShipoutPictureBG clears the contents of \ESO@HookIBG.

For compatibility the macro \ClearShipoutPicture is an alias for \ClearShipoutPictureBG.

\ClearShipoutPictureFG

A call of \ClearShipoutPictureFG clears the contents of \ESO@HookIFG.

\LenToUnit

[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.

---

1 介绍

该包使得在每个页面的绝对位置添加一些图片命令变得容易。

2 使用方法

另请参阅示例的 LaTeX 文档（eso-*.tex）。

2.1 添加 LaTeX 内容到页面背景的基本命令

\AddToShipoutPictureBG

所有作为 \AddToShipoutPictureBG 命令参数的图片命令将被添加到内部宏 \ESO@HookIBG 中。该宏是一个以页面左下角（默认）或页面左上角（选项 "texcoord"）为基点的零长度的 picture 环境的一部分。该 picture 环境将在每个新页面上进行输出。

\AddToShipoutPictureBG*

\AddToShipoutPictureBG* 的工作方式类似于 \AddToShipoutPictureBG，但仅作用于当前页面。它使用内部宏 \ESO@HookIIBG，其内容将自动被清除。

为了兼容，宏 \AddToShipoutPicture 和 \AddToShipoutPicture* 是 \AddToShipoutPictureBG 和 \AddToShipoutPictureBG* 的别名。

\AddToShipoutPictureFG
\AddToShipoutPictureFG*

的工作方式类似于 \AddToShipoutPictureBG，但图片命令位于正常文档内容的顶部。

\ClearShipoutPictureBG

调用 \ClearShipoutPictureBG 会清除 \ESO@HookIBG 的内容。

为了兼容，宏 \ClearShipoutPicture 是 \ClearShipoutPictureBG 的别名。

\ClearShipoutPictureFG

调用 \ClearShipoutPictureFG 会清除 \ESO@HookIFG 的内容。

\LenToUnit

[允许将长度作为图片命令的参数。] 请注意，该宏仅用于与该包的旧版本兼容。较新版本的 LaTeX 允许在图片命令中使用尺寸。

\gridSetup \gridSetup[⟨*gridunitname*⟩]{⟨*gridunit*⟩}{⟨*labelfactor*⟩}{⟨*griddelta*⟩} {⟨*gridDelta*⟩}{⟨*gap*⟩}. \gridSetup[⟨*gridunitname*⟩]{⟨*gridunit*⟩}{⟨*labelfactor*⟩}{⟨*griddelta*⟩} \gridSetup

For details see the implementation section. {⟨*gridDelta*⟩}{⟨*gap*⟩}。详细信息请参见实现部分。

\AtPageUpperLeft

Helper macros for easier positioning on the page.　　　　辅助宏，用于更容易地定位在页面上。

\AtPageLowerLeft

\AtPageCenter
2.2 Package options

\AtTextUpperLeft

\AtTextLowerLeft

\AtTextCenter

\AtStockUpperLeft

\AtStockLowerLeft

\AtStockCenter

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).	坐标系的零点是页面左下角（默认）。
texcoord	empty or *true, false*	The zero point of the coordinate system is the upper left corner of the page.	坐标系的零点是页面左上角。
grid	empty or *true, false*	A grid is drawing; default: false.	绘制网格；默认值为 false。
gridBG	empty or *true, false*	Put the grid in the background; default: false.	将网格放在背景中；默认值为 false。
gridunit	*mm, in, bp, pt*	Distance between gridlines are multiples of gridunit. default: mm.	网格线之间的距离是 gridunit 的倍数；默认值为 mm。
gridcolor	a valid color name	Color of the main gridlines; default: black	主网格线的颜色；默认值为黑色。
subgridcolor	a valid color name	Color of the subgridlines; default: black.	次网格线的颜色；默认值为黑色。
subgridstyle	*solid* or *dotted*	'dotted' is very slow! default: solid.	'dotted' 速度较慢！默认值为 solid。
colorgrid	empty or *true, false*	Shortcut for 'grid=true', 'gridcolor=red' and 'subgridcolor=green'; default: false.	快捷方式，相当于 grid=true、gridcolor=red' 和 subgridcolor= 绿色'；默认值为 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.	如果 color 或 graphics 使用了 dvips 选项，则也为 true。如果为 true，则加载 eepic 以提高虚线的性能。