

Manual for `wallpaper.sty` V. 1.00

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December 22, 2004

1 Introduction

The L^AT_EX style file `wallpaper.sty` has been developed to make life easier for those wishing to add background images (wallpapers) to their documents, presentations or posters. Though a similar functionality is provided by, e.g., `watermark.sty` by Alexander I. Rozhenko and `eso-pic.sty` by Rolf Niepraschk, and indeed the current style file makes use of the latter, some features are not easily created. In particular, tiling of some background texture is quite involved. This style file provides easily used commands to facilitate creating tiled and centered wallpapers. To achieve this ease of use, some functionality provided by `eso-pic.sty` cannot be accessed through this package. Users desiring this additional flexibility should refer to the `eso-pic.sty` manual.

2 Installation

Installation of the package only concerns unpacking the archive in a directory of your choice. It is most convenient to unpack the archive in a directory included in the `TEXINPUTS` environment variable (at our institute, in your `.TeX` directory in your home directory). Unpacking is done using the command:

```
tar -xzf wallpaper.tgz
```

3 Commands Provided

This style file provides the following commands:

\CenterWallPaper	Centers background image on page, allows scaling to fraction of page width or height, keeps aspect ratio intact.
\ThisCenterWallPaper	As above, but only on the current page.
\TileWallPaper	Allows tiling of wallpaper of images of any aspect ratio, aspect ratio is not necessarily preserved.
\ThisTileWallPaper	As above, but only on the current page.
\TileSquareWallPaper	Allows tiling of wallpaper of images, forcing aspect ratio to 1 : 1, the user sets the number of tiles over the width of the paper.
\ThisTileSquareWallPaper	As above, but only on the current page.
\ClearWallPaper	Clears the wallpaper.

The `\CenterWallpaper` command has the following syntax:

```
\CenterWallPaper{<scaling>} {<filename>}
```

The scaling parameter defines the size of the desired wallpaper as a fraction of the paper width or height, depending on the aspect ratio of the image specified by the second parameter (no extension need be given), and the aspect ratio of the paper. The command \ThisCenterWallpaper has the same syntax.

The \TileWallpaper command has the following syntax:

```
\TileWallPaper{<width>} {<height>} {<filename>}
```

The first two parameters define desired width and height of each tile. Note that this may alter the aspect ratio of the image specified by the third parameter. As many tiles as needed to fill the entire page are placed on each page. The command \ThisTileWallpaper has the same syntax. The \TileSquareWallpaper command has the following syntax:

```
\TileSquareWallPaper{<number>} {<filename>}
```

In this case the aspect ratio is fixed to 1 : 1, regardless of the aspect ratio specified by the second parameter. The first parameter specifies how many tiles should be placed along the width of the page. As above, the number of tiles needed to fill the page is determined automatically. The \ThisTileSquareWallpaper command has the same syntax.

4 Tweaking the Wallpaper Position

Two lengths \wpXoffset and \wpYoffset may be set to tweak the position of the wallpaper on the page. Some packages and class files do not seem to report the page geometry correctly, which causes problems with the proper centering and tiling of the wallpaper. In a beta version of `wallpaper.sty` it appeared that the manipulation of \hoffset by `sciposter.cls` caused problems, which could be solved by setting \wpXoffset to -\hoffset (which is now the default). The default value of \wpYoffset is 0 pt. By using an appropriate \setlength or \addtolength command any shift in the origin (at lower left-hand side of the page) can be achieved.

5 Dependencies and Conflicts

Style file `wallpaper.sty` requires the following packages:

- `everyshi`
- `eso-pic`
- `calc`
- `graphicx`
- `ifthen`

Most of these packages are either part of the standard L^AT_EX distribution or can be obtained from www.ctan.org. No conflicts are known at this time.