

The geometry package

Hideo Umeki
latexgeometry@gmail.com

2018/04/16 v5.8

Abstract

This package provides a flexible and easy interface to page dimensions. You can change the page layout with intuitive parameters. For instance, if you want to set a margin to 2cm from each edge of the paper, you can type just `\usepackage[margin=2cm]{geometry}`. The page layout can be changed in the middle of the document with `\newgeometry` command.

1 Preface to version 5

- **Changing page layout mid-document.**

The new commands `\newgeometry{...}` and `\restoregeometry` allow users to change page dimensions in the middle of the document. `\newgeometry` is almost similar to `\geometry` except that `\newgeometry` disables all the options specified in the preamble and skips the papersize-related options: `landscape`, `portrait` and paper size options (such as `papersize`, `paper=a4paper` and so forth).

- **A new set of options to specify the layout area.**

The options specified for the area, in which the page dimensions are calculated, are added: `layout`, `layoutsize`, `layoutwidth`, `layoutheight` and so forth. These options would help to print the specified layout to a different sized paper. For example, with `a4paper` and `layout=a5paper`, the `geometry` package uses ‘A5’ layout to calculate margins with the paper size still ‘A4’.

- **A new driver option xetex.**

The new driver option `xetex` is added. The driver auto-detection routine has been revised so as to avoid an error with undefined control sequences. Note that ‘`geometry.cfg`’ in T_EX Live, which disables the auto-detection routine and sets `pdftex`, is no longer necessary and has no problem even though it still exists. To set `xetex` is strongly recommended with X_YL^AT_EX.

- **New paper size presets for JIS B-series and ISO C-series.**

The papersize presets `b0j` to `b6j` for JIS (Japanese Industrial Standards) B-series and `c0paper` to `c6paper` for ISO C-series (v5.4~) are added.

- **Changing default for underspecified margin.**

In the previous version, if only one margin was specified, `bottom=1cm` for example, then `geometry` set the other margin with the margin ratio (1:1 by default for the vertical dimensions) and got `top=1cm` in this case. The version 5 sets the text-body size with the default `scale` (= 0.7) and determine the unspecified margin. (See Section 6.5)

- **The option showframe and showcrop works on every page.**

With `showframe` option, the page frames are shown on every page. In addition, a new option `showcrop` prints crop marks at each corner of layout area on every page. Note that the marks would be invisible without specifying the layout size smaller than paper size. Version 5.4 introduced a new `\shipout` overloading process using `atbegshi` package, so the `atbegshi` package is required when `showframe` or `showcrop` option is specified.

- **Loading geometry.cfg precedes processing class options.**

The previous version loaded `geometry.cfg` after processing the document class options. Now that the config file is loaded before processing the class options, you can change the behavior specified in `geometry.cfg` by adding options into `\documentclass` as well as `\usepackage` and `\geometry`.