NAME

ShLaTeX − Compilation script for documents written in LaTeX language.

SYNOPSIS

ShLaTeX [options] *sourceFile.tex*

DESCRIPTION

This script allows to centralize the many program calls necessary to completely compile a LaTeX document. In particular, the multiple calls of the **latex** command necessary in order to create a table of contents, a bibliography or an index are carried out automatically. Are also managed the call of the programs **bibtex** and **makeindex** as well as the vizualisation of the resulting file (in DVI, PostScript or PDF format) by calling an external program.

It is possible to compile documents wich use the **input** and **include** commands to make references to some external files and that in a transparent way by compiling only the main source file.

Once compilation done, the temporary files are erased (option **-no-tmp**) or preserved (option **-tmp**). The DVI file generated by LaTeX can then directly be converted to the PostScript or PDF formats.

This script also provides the stressing of the French characters by the intermediary of an external C program (named **tex8to7**) and provided with the script. It also manages the C cedilla as well as the replacement of the quotation marks by the **\og** and **\fg** commands (supposing that the quotation marks are coupled). The quotation marks may be imbricated by using accodances for distinguishing the different quotation mark couples. For example, the text :

The quotation marks "may be {"imbricated"} by using accodances".

is a correct example.

The default options (preferences) are saved in the personal directory of the user, in the file **˜/.shlatex**. See section FILES to know the synthax of this file.

OPTIONS

−dvipdf
> Select a PDF format instead of the DVI format for the resulting file. The program **dvipdf** is used for converting.

−pdflatex
> Select a PDF format instead of the DVI format for the resulting file. The program **pdflatex** is directly used to create the resulting file.

-dvips Select a PostScript format instead of the DVI format for the resulting file. The program **dvips** is used for converting.

-ps2pdf
> Select a PDF format instead of the PaostScript format for the resulting file. This option uses the **-dvips** option. The programs **dvips** and **ps2pdf** are successively used for conversion and the PostScript file is keeped after conversion.

-dvi Select a DVI format for the resulting file.

-idx *[style.ist]* or **--index** *[style.ist]*
> Enable the creation of the index (using the *makeidx* latex module). The optionnal file *style.ist* is a style file for **makeindex**.

-no-idx or **--no-index**
> Disable the creation of the index.

-bib *[file.bib]* or **--bibliography** *[file.bib]*
> Enable the creation of the bibliography with **bibtex** being based on *fichier.bib*. If no file is present, the file with the ".bib" extension must have the same name as *sourceFile*.tex.

-no-bib or **--no-bibliography**
> Disable the creation of the bibliography.

-toc or **--table-of-contents**
> Enable the additional compilation for the construction of a table of contents, a table of figures, a list of figures and all LaTeX references (**\label{...}**).

-no-toc or **--no-table-of-contents**
> Disnable the additional compilation for the construction of a table of contents, a table of figures, a list of figures and all LaTeX references (**\label{...}**).

-tmp or **--temporary**
> Once compilation performed, keep the temporary files created by LaTeX.

-no-tmp or **--no-temporary**
> Once compilation performed, delete the temporary files created by LaTeX.

-z or **--gzip**
> Compress the PsotScript files with the program **gzip**. The files have then the extension ".ps.gz".

-no-z or **--no-gzip**
> Disable compression of the PsotScript files with the program **gzip**.

-1 or **--1page**
> Generate PostScript files having 1 page per a4 sheet.

-2 or **--2pages**
> Generate PostScript files having 2 pages per a4 sheet.

-4 or **--4pages**
> Generate PostScript files having 4 pages per a4 sheet.

-sep or **--separator**
> Use this option in conjunction with the options **-2** or **-4**. Draw a separating line between the different pages of a single sheet.

-no-sep or **--no-separator**
> Use this option in conjunction with the options **-2** or **-4**. Disable drawing a separating line between the different pages of a single sheet.

-m or **--messages**
> Always show the LaTeX messages in the terminal (see also the section COMPILATION ERRORS).

-no-m or **--no-messages**
> If this option is used, the LaTeX messages only appear if there is some errors (see also the section COMPILATION ERRORS).

-view or **--viewer**
> Enable the final vizualisation.

-no-view or **--no-viewer**
> Disable the final vizualisation.

-7 or **--7bits**
> Disable the sressing of the LaTeX source file. The source file must then use 7 bits ascii codes.

-8 or **--8bits**
> Enable the sressing of the LaTeX source file. The source file may then use 8 bits ascii codes.

-v-ps *viewer* or **--view-ps-with** *viewer*
> Use the program *viewer* for the final vizualisation of the PostScript files.

-v-pdf *viewer* or **--view-pdf-with** *viewer*
> Use the program *viewer* for the final vizualisation of the PDF files.

-v-dvi *viewer* or **--view-dvi-with** *viewer*
>   Use the program *viewer* for the final vizualisation of the DVI files.

-v or **--version**
>   Print version and exit.

-?, **-h** or **--help**
>   Print some help.

Note :   When using the option **–view**, the resulting file format choosen (DVI, PostScript or PDF) must be compatible with the program *viewer* in order to make the vizualisation running correctly. By default, the programs used are **xdvi** for the DVI files and **gv** for the PostScript and PDF files.

COMPILATION ERRORS

If option **-no-m** is used, if LaTeX compilation error occurs, the script seems to get stuck. One can stop it by typing command line options ("x" for ignore, "q" for quit, ...) without viewing the messages, or by typing "Ctrl^C". In the two cases, the error messages will be shown afterwards. This imperfection is due to the choice of not printing the **latex** program messages by default. However, the problem exists only if the interaction mode allows LaTeX to stop on errors (wich is not the case, for instance if the **\nonstopmode** command is used).

Anyway, it is possible to force display of the **latex** messages by using the option **-m** instead of the option **-no-m**.

FILES

The file **˜/.shlatex** contains the user's preferences. It can be modified in order to use custom default values for the script's options, but the synthax of the script must be respected :

Each line of the file must hold a single option. All the options are allowed excepting **-v** and **-?** which wouldn't have any sence in this file. For the options which need a parameter, as in the shell, they will be placed after their respective option but the separator have to be a single space character (' '). The order of the options doesn't matter.

If some inconstancies appear during execution of the script, some warnings will be displayed.

If while running the script for the first time, the file **˜/.shlatex** doesn't exist, it will be created automatically with the following content :

>   -dvips
>
>   -view
>
>   -no-idx
>
>   -no-bib
>
>   -toc
>
>   -no-tmp
>
>   -no-z
>
>   -1
>
>   -no-sep
>
>   -no-m
>
>   -8
>
>   -v-ps gv
>
>   -v-pdf gv

-v-dvi xdvi

KNOWN PROBLEMS

BoundingBox

While inserting an image with the command **\includegraphics**, it is necessary to specify the "bounding-box" as argument of the command, unless compilation doesn't work. Here is an exemple :

\includegraphics[bb=0 0 100 200]{image.eps}

External files

If you want external file inclusion to work properly, you have to put the **\input** and **\include** commands on a single line in the file *sourceFile.tex*.

SEE ALSO

latex(1), **pdflatex**(1), **dvips**(1), **ps2pdf**(1), **dvipdf**(1), **xdvi**(1), **gv**(1), **gzip**(1)

BUGS

Thanks for reporting bugs by sending an email to the AUTHOR section adress.

LICENCE

This script and all its relative files (including this manual) are released under the terms of the GNU General Public Licence. The GNU GPL is provided with the script (file /usr/share/shlatex/GPL.TXT) and is also available at the adress http://www.gnu.org/licenses/gpl.html.

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