

**NAME**

`latexdiff-vc` – wrapper script that calls `latexdiff` for different versions of a file under version management (CVS, RCS or SVN)

**SYNOPSIS**

**`latexdiff-vc` [ *latexdiff-options* ] [ *latexdiff-vc-options* ] **-r** [*rev1*] [**-r** *rev2*] *file1.tex* [*file2.tex* ...]**

or

**`latexdiff-vc` [ *latexdiff-options* ] [ *latexdiff-vc-options* ][ **--postscript** | **--pdf** ] *old.tex new.tex***

**DESCRIPTION**

`latexdiff-vc` is a wrapper script that applies `latexdiff` to a file, or multiple files under version control (git, subversion (SVN), mercurial (hg), CVS, RCS), and optionally runs the sequence of `latex` and `dvips` or `pdflatex` commands necessary to produce pdf or postscript output of the difference tex file(s). It can also be applied to a pair of files to automatise the generation of difference file in postscript or pdf format.

**OPTIONS**

**--rcs, --svn, --cvs, --git or --hg**

Set the version control system used. If no version system is specified, `latexdiff-vc` will venture a guess.

`latexdiff-cvs`, `latexdiff-rcs` etc are variants of `latexdiff-vc` which default to the respective versioning system. However, this default can still be overridden using the options above.

Note that hg needs to support the **--root** option (version  $\geq 2.9$ )

**-r, -r rev or --revision, --revision=rev**

Choose revision (under RCS, CVS, SVN, GIT or HG). One or two **-r** options can be specified, and they result in different behaviour:

**`latexdiff-vc -r file.tex ...`**

compares *file.tex* with the most recent version checked into RCS.

**`latexdiff-vc -r rev1 file.tex ...`**

compares *file.tex* with revision *rev1*.

**`latexdiff-vc -r rev1 -r rev2 file.tex ...`**

compares revisions *rev1* and *rev2* of *file.tex*.

Multiple files can be specified for all of the above options. All files must have the extension `.tex`, though.

**`latexdiff-vc old.tex new.tex`**

compares two files.

The name of the difference file is generated automatically and reported to stdout.

**-d or --dir -d path or --dir=path**

Rather than appending the string `diff` and optionally the version numbers given to the output-file, this will prepend a directory name `diff` to the original filename, creating the directory and subdirectories should they not exist already. This is particularly useful in order to clone a complete directory hierarchy. Optionally, a pathname *path* can be specified, which is prepended instead of `diff`.

**--flatten,--flatten=keep-intermediate**

If combined with --git, --svn or --hg option or the corresponding modes, check out the revisions to compare in a separate temporary directory, and then pass on option --flatten to latexdiff. The directory in which latexdiff-vc is invoked defines the subtree which will be checked out. Note that if additional files are needed which are not included in the flatten procedure (package files, included graphics), they need to be accessible in the current directory. If you use bibtex, it is recommended to include the .bbl file in the version management.

The generic usage of this function is : latexdiff-vc --flatten -r rev1 [-r rev2] master.tex where master.tex is the project file containing the highest level of includes etc.

With --flatten=keep-intermediate, the intermediate revision snapshots are kept in the current directory (Default is to store them in a temporary directory and delete them after generating the diff file.)

**--config var1=val1,var2=val2,... or -c var1=val1,...****--only-changes**

Post-process the output such that only pages with changes on them are displayed. This requires the use of subtype ZLABEL in latexdiff, which will be set automatically, but any manually set -s option will be overruled (also requires zref package to be installed). (note that this option must be combined with --ps or --pdf to make sense)

**--force**

Overwrite existing diff files without asking for confirmation. Default behaviour is to ask for confirmation before overwriting an existing difference file.

**--run**

run latex command on diff file after generation of diff file.

**--dvi**

run latex and dvixxx commands after generation of diff file.

**-c configfile**

Set configuration variables for latexdiff and latexdiff-vc. The option can be repeated to set different variables (as an alternative to the comma-separated list). Available variables for latexdiff-vc:

LATEXDIFF latexdiff command (e.g. latexdiff-fast, latexdiff-so). This command should support the option --interaction=batchmode

LATEX latex command (e.g. pdflatex, lualatex)

DVI2 Command for conversion of dvi file (e.g. dvips, dvipdf)

BIBTEX Command replacing bibtex

All other config variables are passed to latexdiff. Explicitly set configuration changes always override implicit changes by the following shortcut options --fast, --so, --ps and --pdf.

**--fast or --so**

Use latexdiff-fast or latexdiff-so, respectively (instead of latexdiff).

**--ps or --postscript**

Generate postscript output from difference file. This will run the sequence latex; latex; dvips on the difference file (do not use this option in the rare cases, where three

`latex` commands are required if you care about correct referencing). If the difference file contains a `\bibliography` tag, run the sequence `latex; bibtex; latex; latex; dvips`.

**--pdf**

Generate pdf output from difference file using `pdflatex`. This will run the sequence `pdflatex; pdflatex` on the difference file, or `pdflatex; bibtex; pdflatex; pdflatex` for files requiring `bibtex`. Note that this is not just a shortcut for setting configuration variable but also triggers some special behaviour.

**--show-config**

Show values of configuration variables.

**--help or -h**

Show help text

**--version**

Show version number

All other options are passed on to `latexdiff`.

**SEE ALSO**

`latexdiff`

**PORTABILITY**

`latexdiff-vc` uses external commands and is therefore dependent on the system architecture; it has been tested mainly on Unix-like systems. It also requires the a version control system and `latex` to be installed on the system to make use of all features. Modules from Perl 5.8 or higher are required.

**BUG REPORTING**

Please submit bug reports using the issue tracker of the github repository page <https://github.com/ftilmann/latexdiff.git>, or send them to *tilmann — AT — gfz-potsdam.de*. Include the version number of `latexdiff-vc` (option `--version`).

**AUTHOR**

Version 1.2.1 Copyright (C) 2005–2017 Frederik Tilman

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License Version 3 Contributors: S Utcke, H Bruyninckx; some ideas have been inspired by git-latexdiff bash script. C. Junghans: Mercurial Support.