

# Package: latexdiff (via r-universe)

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**Type** Package

**Title** Diff TeX, 'rmarkdown' or 'quarto' Files Using the 'latexdiff' Utility

**Version** 0.2.0.9000

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**Description** Produces a PDF diff of two 'rmarkdown', 'quarto', Sweave or TeX files, using the external 'latexdiff' utility.

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**URL** <https://github.com/hughjonesd/latexdiff>

**BugReports** <https://github.com/hughjonesd/latexdiff/issues>

**Encoding** UTF-8

**Imports** assertthat, fs, rprojroot

**Suggests** tinytex, rmarkdown, knitr, quarto, testthat, covr

**SystemRequirements** latexdiff

**RoxygenNote** 7.2.3

**Roxygen** list(markdown = TRUE)

**Repository** <https://hughjonesd.r-universe.dev>

**RemoteUrl** <https://github.com/hughjonesd/latexdiff>

**RemoteRef** HEAD

**RemoteSha** 6d0c95db5cc67dca3f3e122b4ca42ab895136d71

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git\_latexdiff      *Call latexdiff on git revisions*

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## Description

git\_latexdiff() checks out a previous version of a file and calls latexdiff on it.

## Usage

```
git_latexdiff(path, revision, clean = TRUE, ...)
```

## Arguments

path	File path to diff
revision	Revision, specified in a form that git understands. See man gitrevisions
clean	Clean up intermediate files, including the checked out file?
...	Arguments passed to <a href="#">latexdiff()</a>

## Details

git\_latexdiff only checks out the specific file in path. If your Rmd file depends on external resources which have also changed, you will need to checkout the old revision as a whole and create the tex file manually.

## Value

The result of latexdiff.

## Examples

```
## Not run:  
git_latexdiff("file1.Rmd", "HEAD^")  
git_latexdiff("file1.Rmd", "master@[7 days ago]")  
  
## End(Not run)
```

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`latexdiff`*Produce a diff of two files using latexdiff*

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## Description

`latexdiff()` uses the external utility `latexdiff` to create a PDF file showing differences between two Rmd, qmd, Rnw or TeX files.

## Usage

```
latexdiff(  
  path1,  
  path2,  
  output = "diff",  
  compile = TRUE,  
  open = interactive(),  
  clean = TRUE,  
  quiet = TRUE,  
  output_format = NULL,  
  ld_opts = "--replace-context2cmd=\"none\""  
)
```

## Arguments

<code>path1</code>	Path to the first file.
<code>path2</code>	Path to the second file.
<code>output</code>	File name of the output, without the <code>.tex</code> extension.
<code>compile</code>	Logical. Compile the diff from tex to pdf?
<code>open</code>	Logical. Automatically open the resulting pdf?
<code>clean</code>	Logical. Clean up intermediate TeX files?
<code>quiet</code>	Logical. Suppress printing? Passed to <code>render</code> and <code>knit</code> , and hides standard error of <code>latexdiff</code> itself.
<code>output_format</code>	An rmarkdown output format for Rmd files, probably <code>rmarkdown::latex_document()</code> . The default uses the options defined in the Rmd files. YAML front matter.
<code>ld_opts</code>	Character vector of options to pass to <code>latexdiff</code> . The default avoids some problems with Rmd files.

## Details

You will need the `latexdiff` utility installed on your system:

```
# on MacOS:  
brew install latexdiff
```

```
# on Linux:  
sudo apt install latexdiff
```

For more details see [CTAN](#) or [github](#). You'll need a working perl installation.

You can set the path to latexdiff in the environment variable "LATEXDIFF\_PATH", using `Sys.setenv()` or via the command line. If this is unset, it is assumed to be "latexdiff".

File types are determined by extension, which should be one of .tex, .Rmd, .qmd or .rnw. Rmd files are processed by `rmarkdown::render()`. Rnw files are processed by `knitr::knit()`. qmd files are processed by `quarto::quarto_render()`.

latexdiff is not perfect. Some changes will confuse it. In particular:

- If input and output files are in different directories, the "diff.tex" file may have incorrect paths for e.g. included figures. latexdiff will add the `--flatten` option in this case, but things still are not guaranteed to work.
- Sometimes the "diff.tex" file fails to compile to pdf. If so, set `compile = FALSE` and try editing the tex file manually.

### Value

Invisible NULL.

### Examples

```
## Not run:  
latexdiff("file1.Rmd", "file2.Rmd")
```

```
## End(Not run)
```

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