Difftastic Structural diff tool

CONCEPTS

difftastic compares syntax trees, not lines: reformatting and re-wrapping show up as no change, and moved code stays aligned.

Two inputs files, dirs, stdin
↓ `detect language`
Parse tree-sitter syntax tree
↓ `graph search`
Structural diff nodes added / removed
↓ `too big or parse error`
Line diff fallback or plain text

If a file cannot be parsed, is over the byte or graph limit, or has no known language, difft falls back to a line-based diff.

difft is a viewer, not a patch tool: its output cannot be applied with patch or git apply.

BASICS

`difft <old> <new>`
Diff two files

`difft <dir1> <dir2>`
Diff two directories recursively

`difft - <file>`
Read one side from stdin

`difft <conflicted-file>`
Diff the two sides of conflict markers

`difft --help`
List every option

`difft --version`
Print installed version

`difft --list-languages`
Show languages and extensions

`difft --skip-unchanged <d1> <d2>`
Show only files that differ

`difft --exit-code <a> <b>`
Exit 1 when there are changes

DISPLAY

`difft --display side-by-side <a> <b>`
Two columns (default)

DISPLAY (cont.)

`difft --display side-by-side-show-both <a> <b>`
Two columns even for pure adds

`difft --display inline <a> <b>`
Single column, diff style

`difft --context <n> <a> <b>`
Lines of context around changes

`difft --width <cols> <a> <b>`
Force the wrapping width

`difft --color always <a> <b>`
Force colour (also never / auto)

`difft --background light <a> <b>`
Colours for a light terminal

`difft --syntax-highlight off <a> <b>`
Plain colours, no highlighting

LANGUAGES AND LIMITS

`difft --override '<glob>:<lang>' <a> <b>`
Force a language by file glob

GIT

`git -c diff.external=difft diff`
Use difft for one command

`git config --global diff.external difft`
Use difft for every git diff

`git show --ext-diff <commit>`
Show a commit with difft

`git log -p --ext-diff`
History with structural diffs

`git diff --no-ext-diff`
Back to the normal diff

CONFIGURATION

`DFT_BACKGROUND=light`
Environment form of --background

`DFT_DISPLAY=inline`
Default display mode

Every option has a DFT_<NAME> environment variable, which is the way to set defaults when a VCS invokes difft for you.