GIT-LS-FILES(1) Git Manual GIT-LS-FILES(1)

NAME

git-ls-files - Show information about files in the index and the working tree

SYNOPSIS

DESCRIPTION

This merges the file listing in the index with the actual working directory list, and shows different combinations of the two.

One or more of the options below may be used to determine the files shown:

OPTIONS

-c, --cached

Show cached files in the output (default)

-d, --deleted

Show deleted files in the output

-m, --modified

Show modified files in the output

-o, --others

Show other (i.e. untracked) files in the output

-i, --ignored

Show only ignored files in the output. When showing files in the index, print only those matched by an exclude pattern. When showing "other" files, show only those matched by an exclude pattern. Standard ignore rules are not automatically activated, therefore at least one of the --exclude* options is required.

-s, --stage

Show staged contents' mode bits, object name and stage number in the output.

--directory

If a whole directory is classified as "other", show just its name (with a trailing slash) and not its whole contents.

--no-empty-directory

Do not list empty directories. Has no effect without --directory.

-u, --unmerged

Show unmerged files in the output (forces --stage)

-k, --killed

Show files on the filesystem that need to be removed due to file/directory conflicts for checkout-index to succeed.

 $^{-z}$ \0 line termination on output and do not quote filenames. See OUTPUT below for more information.

--deduplicate

When only filenames are shown, suppress duplicates that may come from having multiple stages during a merge, or giving --deleted and --modified option at the same time. When any of the -t, --unmerged, or --stage option is in use, this option has no effect.

-x <pattern>, --exclude=<pattern>

Skip untracked files matching pattern. Note that pattern is a shell wildcard pattern. See EXCLUDE PATTERNS below for more information.

-X <file>, --exclude-from=<file>

Read exclude patterns from <file>; 1 per line.

--exclude-per-directory=<file>

Read additional exclude patterns that apply only to the directory and its subdirectories in <file>.

--exclude-standard

Add the standard Git exclusions: .git/info/exclude, .gitignore in each directory, and the user's global exclusion file.

--error-unmatch

If any <file> does not appear in the index, treat this as an error (return 1).

--with-tree=<tree-ish>

When using --error-unmatch to expand the user supplied <file> (i.e. path pattern) arguments to paths, pretend that paths which were removed in the index since the named <tree-ish> are still present. Using this option with -s or -u options does not make any sense.

-t

This feature is semi-deprecated. For scripting purpose, git-status(1) --porcelain and git-diff-files(1) --name-status are almost always superior alternatives, and users should look at git-status(1) --short or git-diff(1) --name-status for more user-friendly alternatives.

This option identifies the file status with the following tags (followed by a space) at the start of each line:

Н

cached

S

skip-worktree

Μ

unmerged

R

removed/deleted

С

modified/changed

K

to be killed

?

other

-v

Similar to -t, but use lowercase letters for files that are marked as assume unchanged (see git-update-index(1)).

Similar to -t, but use lowercase letters for files that are marked as fsmonitor valid (see git-update-index(1)).

--full-name

When run from a subdirectory, the command usually outputs paths relative to the current directory. This option forces paths to be output relative to the project top directory.

--recurse-submodules

Recursively calls ls-files on each active submodule in the repository. Currently there is only support for the --cached mode.

--abbrev[=<n>]

Instead of showing the full 40-byte hexadecimal object lines, show the shortest prefix that is at least <n> hexdigits long that uniquely refers the object. Non default number of digits can be specified with --abbrev=<n>.

--debug

After each line that describes a file, add more data about its cache entry. This is intended to show as much information as possible for manual inspection; the exact format may change at any time.

--eol

Show <eolinfo> and <eolattr> of files. <eolinfo> is the file content identification used by Git when the "text" attribute is "auto" (or not set and core.autocrlf is not false). <eolinfo> is either "-text", "none", "lf", "crlf", "mixed" or "".

"" means the file is not a regular file, it is not in the index or not accessible in the working tree.

<eolattr> is the attribute that is used when checking out or
committing, it is either "", "-text", "text", "text=auto", "text
eol=lf", "text eol=crlf". Since Git 2.10 "text=auto eol=lf" and
"text=auto eol=crlf" are supported.

Both the <eolinfo> in the index ("i/<eolinfo>") and in the working tree ("w/<eolinfo>") are shown for regular files, followed by the ("attr/<eolattr>").

Do not interpret any more arguments as options.

<file>

Files to show. If no files are given all files which match the other specified criteria are shown.

OUTPUT

git ls-files just outputs the filenames unless —-stage is specified in which case it outputs:

[<tag>]<mode> <object> <stage> <file>

git ls-files --eol will show
i/<eolinfo><SPACES>w/<eolinfo><SPACE*><TAB><file>

git ls-files --unmerged and git ls-files --stage can be used to examine detailed information on unmerged paths.

For an unmerged path, instead of recording a single mode/SHA-1 pair, the index records up to three such pairs; one from tree O in stage 1, A in stage 2, and B in stage 3. This information can be used by the user (or the porcelain) to see what should eventually be recorded at the path. (see git-read-tree(1) for more information on state)

Without the -z option, pathnames with "unusual" characters are quoted

as explained for the configuration variable core.quotePath (see gitconfig(1)). Using -z the filename is output verbatim and the line is terminated by a NUL byte.

EXCLUDE PATTERNS

git ls-files can use a list of "exclude patterns" when traversing the directory tree and finding files to show when the flags --others or --ignored are specified. gitignore(5) specifies the format of exclude patterns.

These exclude patterns come from these places, in order:

- The command-line flag --exclude=<pattern> specifies a single pattern. Patterns are ordered in the same order they appear in the command line.
- 2. The command-line flag --exclude-from=<file> specifies a file containing a list of patterns. Patterns are ordered in the same order they appear in the file.
- 3. The command-line flag --exclude-per-directory=<name> specifies a name of the file in each directory git ls-files examines, normally .gitignore. Files in deeper directories take precedence. Patterns are ordered in the same order they appear in the files.

A pattern specified on the command line with --exclude or read from the file specified with --exclude-from is relative to the top of the directory tree. A pattern read from a file specified by --exclude-per-directory is relative to the directory that the pattern file appears in.

SEE ALSO

git-read-tree(1), gitignore(5)

GIT

Part of the git(1) suite

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