

NAME

git-grep - Print lines matching a pattern

SYNOPSIS

```
git grep [-a | --text] [-I] [--textconv] [-i | --ignore-case] [-w | --word-regexp]
[-v | --invert-match] [-h|-H] [--full-name]
[-E | --extended-regexp] [-G | --basic-regexp]
[-P | --perl-regexp]
[-F | --fixed-strings] [-n | --line-number]
[-l | --files-with-matches] [-L | --files-without-match]
[(-O | --open-files-in-pager) [<pager>]]
[-z | --null]
[-c | --count] [--all-match] [-q | --quiet]
[--max-depth <depth>]
[--color[=<when>] | --no-color]
[--break] [--heading] [-p | --show-function]
[-A <post-context>] [-B <pre-context>] [-C <context>]
[-W | --function-context]
[-f <file>] [-e] <pattern>
[--and|--or|--not(|)|-e <pattern>...]
[ [--[no-]exclude-standard] [--cached | --no-index | --untracked] | <tree>...]
[--] [<pathspecc>...]
```

DESCRIPTION

Look for specified patterns in the tracked files in the work tree, blobs registered in the index file, or blobs in given tree objects. Patterns are lists of one or more search expressions separated by newline characters. An empty string as search expression matches all lines.

CONFIGURATION

grep.lineNumber

If set to true, enable *-n* option by default.

grep.patternType

Set the default matching behavior. Using a value of *basic*, *extended*, *fixed*, or *perl* will enable the *--basic-regexp*, *--extended-regexp*, *--fixed-strings*, or *--perl-regexp* option accordingly, while the value *default* will return to the default matching behavior.

grep.extendedRegexp

If set to true, enable *--extended-regexp* option by default. This option is ignored when the *grep.patternType* option is set to a value other than *default*.

grep.fullName

If set to true, enable *--full-name* option by default.

OPTIONS

--cached

Instead of searching tracked files in the working tree, search blobs registered in the index file.

--no-index

Search files in the current directory that is not managed by Git.

--untracked

In addition to searching in the tracked files in the working tree, search also in untracked files.

--no-exclude-standard

Also search in ignored files by not honoring the *.gitignore* mechanism. Only useful with *--untracked*.

--exclude-standard

Do not pay attention to ignored files specified via the *.gitignore* mechanism. Only useful when searching files in the current directory with *--no-index*.

- a, --text
Process binary files as if they were text.
- textconv
Honor textconv filter settings.
- no-textconv
Do not honor textconv filter settings. This is the default.
- i, --ignore-case
Ignore case differences between the patterns and the files.
- I
Don't match the pattern in binary files.
- max-depth <depth>
For each <pathspec> given on command line, descend at most <depth> levels of directories. A negative value means no limit. This option is ignored if <pathspec> contains active wildcards. In other words if a* matches a directory named a*, * is matched literally so --max-depth is still effective.
- w, --word-regexp
Match the pattern only at word boundary (either begin at the beginning of a line, or preceded by a non-word character; end at the end of a line or followed by a non-word character).
- v, --invert-match
Select non-matching lines.
- h, -H
By default, the command shows the filename for each match. -h option is used to suppress this output. -H is there for completeness and does not do anything except it overrides -h given earlier on the command line.
- 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.
- E, --extended-regexp, -G, --basic-regexp
Use POSIX extended/basic regexp for patterns. Default is to use basic regexp.
- P, --perl-regexp
Use Perl-compatible regexp for patterns. Requires libpcre to be compiled in.
- F, --fixed-strings
Use fixed strings for patterns (don't interpret pattern as a regex).
- n, --line-number
Prefix the line number to matching lines.
- l, --files-with-matches, --name-only, -L, --files-without-match
Instead of showing every matched line, show only the names of files that contain (or do not contain) matches. For better compatibility with *git diff*, --name-only is a synonym for --files-with-matches.
- O [<pager>], --open-files-in-pager [<pager>]
Open the matching files in the pager (not the output of *grep*). If the pager happens to be less or vi, and the user specified only one pattern, the first file is positioned at the first match automatically.
- z, --null
Output 0 instead of the character that normally follows a file name.
- c, --count
Instead of showing every matched line, show the number of lines that match.

- `--color[=<when>]`
Show colored matches. The value must be always (the default), never, or auto.
- `--no-color`
Turn off match highlighting, even when the configuration file gives the default to color output. Same as `--color=never`.
- `--break`
Print an empty line between matches from different files.
- `--heading`
Show the filename above the matches in that file instead of at the start of each shown line.
- `-p, --show-function`
Show the preceding line that contains the function name of the match, unless the matching line is a function name itself. The name is determined in the same way as *git diff* works out patch hunk headers (see *Defining a custom hunk-header* in [gitattributes\(5\)](#)).
- `-<num>, -C <num>, --context <num>`
Show <num> leading and trailing lines, and place a line containing `--` between contiguous groups of matches.
- `-A <num>, --after-context <num>`
Show <num> trailing lines, and place a line containing `--` between contiguous groups of matches.
- `-B <num>, --before-context <num>`
Show <num> leading lines, and place a line containing `--` between contiguous groups of matches.
- `-W, --function-context`
Show the surrounding text from the previous line containing a function name up to the one before the next function name, effectively showing the whole function in which the match was found.
- `-f <file>`
Read patterns from <file>, one per line.
- `-e`
The next parameter is the pattern. This option has to be used for patterns starting with `-` and should be used in scripts passing user input to `grep`. Multiple patterns are combined by *or*.
- `--and, --or, --not, (...)`
Specify how multiple patterns are combined using Boolean expressions. `--or` is the default operator. `--and` has higher precedence than `--or`. `-e` has to be used for all patterns.
- `--all-match`
When giving multiple pattern expressions combined with `--or`, this flag is specified to limit the match to files that have lines to match all of them.
- `-q, --quiet`
Do not output matched lines; instead, exit with status 0 when there is a match and with non-zero status when there isn't.
- `<tree>...`
Instead of searching tracked files in the working tree, search blobs in the given trees.
- `--`
Signals the end of options; the rest of the parameters are <pathspec> limiters.
- `<pathspec>...`
If given, limit the search to paths matching at least one pattern. Both leading paths match and [glob\(7\)](#) patterns are supported.

EXAMPLES

```
git grep time_t -- *.ch]
```

Looks for `time_t` in all tracked `.c` and `.h` files in the working directory and its subdirectories.

```
git grep -e #define --and ( -e MAX_PATH -e PATH_MAX )
```

Looks for a line that has `#define` and either `MAX_PATH` or `PATH_MAX`.

```
git grep --all-match -e NODE -e Unexpected
```

Looks for a line that has `NODE` or `Unexpected` in files that have lines that match both.

GIT

Part of the [git\(1\)](#) suite