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] [−−column]
              [−l | −−files−with−matches] [−L | −−files−without−match]
              [(−O | −−open−files−in−pager) [<pager>]]
              [−z | −−null]
              [−o | −−only−matching] [−c | −−count] [−−all−match] [−q | −−quiet]
              [−−max−depth <depth>] [−−[no−]recursive]
              [−−color[=<when>] | −−no−color]
              [−−break] [−−heading] [−p | −−show−function]
              [−A <post−context>] [−B <pre−context>] [−C <context>]
              [−W | −−function−context]
              [−−threads <num>]
              [−f <file>] [−e] <pattern>
              [−−and|−−or|−−not|(|)|−e <pattern>...]
              [−−recurse−submodules] [−−parent−basename <basename>]
              [[−−[no−]exclude−standard] [−−cached | −−no−index | −−untracked] | <tree>...]
              [−−] [<pathspec>...]

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.column
              If set to true, enable the **−−column** 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.threads
              Number of grep worker threads to use. If unset (or set to 0), 8 threads are used by default (for now).

       grep.fullName
              If set to true, enable **−−full−name** option by default.

       grep.fallbackToNoIndex
              If set to true, fall back to git grep −−no−index if git grep is executed outside of a git repository.
              Defaults to false.

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**.

−−recurse-submodules
    Recursively search in each submodule that has been initialized and checked out in the repository.
    When used in combination with the <tree> option the prefix of all submodule output will be the name
    of the parent project's <tree> object.

−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 value
    of −1 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.

−r, −−recursive
    Same as **−−max−depth=−1**; this is the default.

−−no−recursive
    Same as **−−max−depth=0**.

−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 regular expressions for patterns.

Support for these types of regular expressions is an optional compile−time dependency. If Git wasn't compiled with support for them providing this option will cause it to die.

−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.

−−column
Prefix the 1−indexed byte−offset of the first match from the start of the matching line.

−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. The **pager** argument is optional; if specified, it must be stuck to the option without a space. If **pager** is unspecified, the default pager will be used (see **core.pager** in **git-config**(1)).

−z, −−null
Output \0 instead of the character that normally follows a file name.

−o, −−only−matching
Print only the matched (non−empty) parts of a matching line, with each such part on a separate output line.

−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.

−−threads <num>
Number of grep worker threads to use. See **grep.threads** in *CONFIGURATION* for more information.

−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.

For more details about the <pathspec> syntax, see the *pathspec* entry in **gitglossary**(7).

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 grep solution −− :ˆDocumentation
Looks for **solution**, excluding files in **Documentation**.

GIT

Part of the **git**(1) suite