--follow

Continue listing the history of a file beyond renames (works only for a single file).

- --no-decorate
- --decorate[=short|full|auto|no]

Print out the ref names of any commits that are shown. If short is specified, the ref name prefixes refs/heads/, refs/tags/ and refs/remotes/ will not be printed. If full is specified, the full ref name (including prefix) will be printed. If auto is specified, then if the output is going to a terminal, the ref names are shown as if short were given, otherwise no ref names are shown. The option --decorate is short-hand for --decorate=short. Default to configuration value of log.decorate if configured, otherwise, auto.

- --decorate-refs=<pattern>
- --decorate-refs-exclude=<pattern>

For each candidate reference, do not use it for decoration if it matches any patterns given to --decorate-refs-exclude or if it doesn't match any of the patterns given to --decorate-refs. The log.excludeDecoration config option allows excluding refs from the decorations, but an explicit -- decorate-refs pattern will override a match in log.excludeDecoration.

If none of these options or config settings are given, then references are used as decoration if they match HEAD, refs/heads/, refs/remotes/, refs/stash/, or refs/tags/.

--clear-decorations

When specified, this option clears all previous --decorate-refs or --decorate-refs-exclude options and relaxes the default decoration filter to include all references. This option is assumed if the config value log.initialDecorationSet is set to all.

--source

Print out the ref name given on the command line by which each commit was reached.

- --[no-]mailmap
- --[no-]use-mailmap

Use mailmap file to map author and committer names and email addresses to canonical real names and email addresses. See git-shortlog[1].

--full-diff

Without this flag, git log -p <path>... shows commits that touch the specified paths, and diffs about the same specified paths. With this, the full diff is shown for commits that touch the specified paths; this means that "<path>..." limits only commits, and doesn't limit diff for those commits.

Note that this affects all diff-based output types, e.g. those produced by --stat, etc.

--log-size

Include a line "log size <number>" in the output for each commit, where <number> is the length of that commit's message in bytes. Intended to speed up tools that read log messages from git log output by allowing them to allocate space in advance.

-L<start>,<end>:<file>

-L:<funcname>:<file>

Trace the evolution of the line range given by <start>,<end>, or by the function name regex <funchame>, within the <file>. You may not give any pathspec limiters. This is currently limited to a walk starting from a single revision, i.e., you may only give zero or one positive revision arguments, and <start> and <end> (or <funchame>) must exist in the starting revision. You can specify this option more than once. Implies --patch. Patch output can be suppressed using --no-patch, but other diff formats (namely --raw, --numstat, --shortstat, --dirstat, --summary, --name-only, --name-status, --check) are not currently implemented.

<start> and <end> can take one of these forms:

number

If <start> or <end> is a number, it specifies an absolute line number (lines count from 1).

/regex/

This form will use the first line matching the given POSIX regex. If <start> is a regex, it will search from the end of the previous -L range, if any, otherwise from the start of file. If <start> is ^/regex/, it will search from the start of file. If <end> is a regex, it will search starting at the line given by <start>.

+offset or -offset

This is only valid for <end> and will specify a number of lines before or after the line given by <start>.

If :<function in place of <start> and <end>, it is a regular expression that denotes the range from the first function in that matches <function in the next function in the end of the previous -L range, if any, otherwise from the start of file. ^:<function names are determined in the same way as git diff works out patch hunk headers (see Defining a custom hunk-header in gitattributes[5]).

<revision-range>

Show only commits in the specified revision range. When no <revision-range> is specified, it defaults to HEAD (i.e. the whole history leading to the current commit). origin..HEAD specifies all the commits reachable from the current commit (i.e. HEAD), but not from origin. For a complete list of ways to spell <revision-range>, see the Specifying Ranges section of gitrevisions[7].

[--] <path>...

Show only commits that are enough to explain how the files that match the specified paths came to be. See History Simplification below for details and other simplification modes.

Paths may need to be prefixed with -- to separate them from options or the revision range, when confusion arises.

Commit Limiting

Besides specifying a range of commits that should be listed using the special notations explained in the description, additional commit limiting may be applied.

Using more options generally further limits the output (e.g. --since=<date1> limits to commits newer than <date1>, and using it with --grep=<pattern> further limits to commits whose log message has a line that matches <pattern>), unless otherwise noted.

Note that these are applied before commit ordering and formatting options, such as --reverse.

- -<number>
- -n <number>
- --max-count=<number>

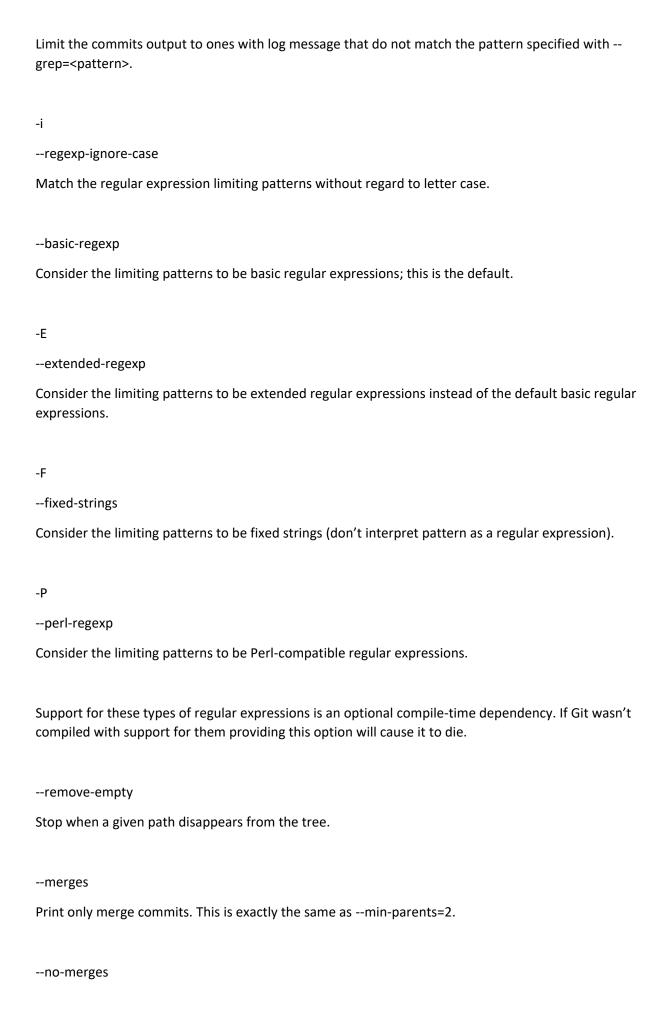
Limit the number of commits to output.

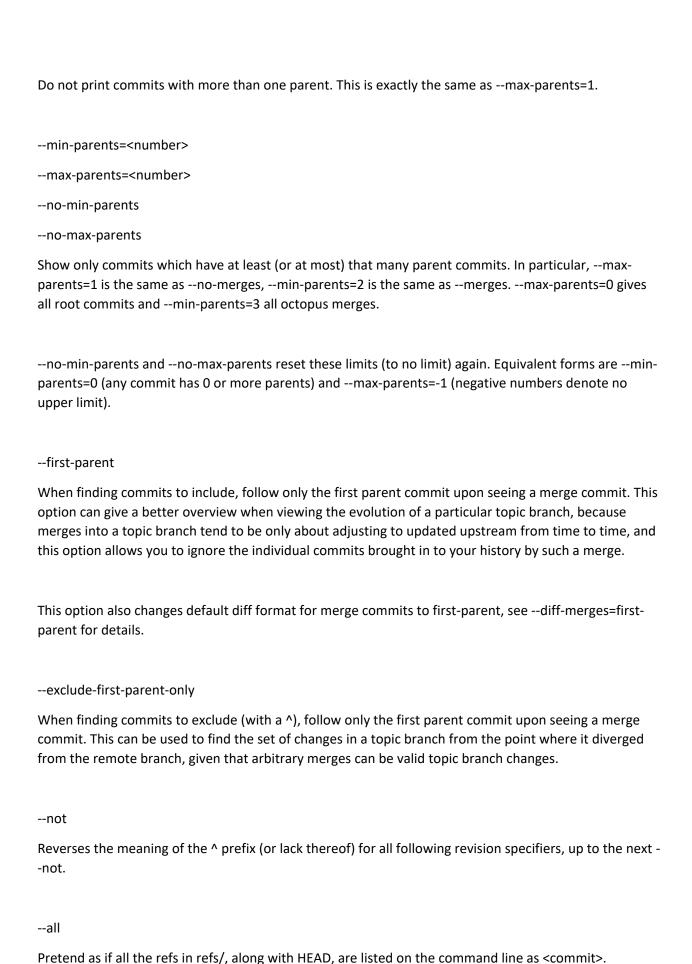
--skip=<number>

Skip number commits before starting to show the commit output.

--since=<date> --after=<date> Show commits more recent than a specific date. --since-as-filter=<date> Show all commits more recent than a specific date. This visits all commits in the range, rather than stopping at the first commit which is older than a specific date. --until=<date> --before=<date> Show commits older than a specific date. --author=<pattern> --committer=<pattern> Limit the commits output to ones with author/committer header lines that match the specified pattern (regular expression). With more than one --author=<pattern>, commits whose author matches any of the given patterns are chosen (similarly for multiple --committer=<pattern>). --grep-reflog=<pattern> Limit the commits output to ones with reflog entries that match the specified pattern (regular expression). With more than one --grep-reflog, commits whose reflog message matches any of the given patterns are chosen. It is an error to use this option unless --walk-reflogs is in use. --grep=<pattern> Limit the commits output to ones with log message that matches the specified pattern (regular expression). With more than one --grep=<pattern>, commits whose message matches any of the given patterns are chosen (but see --all-match). When --notes is in effect, the message from the notes is matched as if it were part of the log message. --all-match Limit the commits output to ones that match all given --grep, instead of ones that match at least one.

--invert-grep





--branches[=<pattern>]

Pretend as if all the refs in refs/heads are listed on the command line as <commit>. If <pattern> is given, limit branches to ones matching given shell glob. If pattern lacks ?, *, or [, /* at the end is implied.

--tags[=<pattern>]

Pretend as if all the refs in refs/tags are listed on the command line as <commit>. If <pattern> is given, limit tags to ones matching given shell glob. If pattern lacks ?, *, or [, /* at the end is implied.

--remotes[=<pattern>]

Pretend as if all the refs in refs/remotes are listed on the command line as <commit>. If <pattern> is given, limit remote-tracking branches to ones matching given shell glob. If pattern lacks ?, *, or [, /* at the end is implied.

--glob=<glob-pattern>

Pretend as if all the refs matching shell glob <glob-pattern> are listed on the command line as <commit>. Leading refs/, is automatically prepended if missing. If pattern lacks ?, *, or [, /* at the end is implied.

--exclude=<glob-pattern>

Do not include refs matching <glob-pattern> that the next --all, --branches, --tags, --remotes, or --glob would otherwise consider. Repetitions of this option accumulate exclusion patterns up to the next --all, --branches, --tags, --remotes, or --glob option (other options or arguments do not clear accumulated patterns).

The patterns given should not begin with refs/heads, refs/tags, or refs/remotes when applied to -- branches, --tags, or --remotes, respectively, and they must begin with refs/ when applied to --glob or -- all. If a trailing /* is intended, it must be given explicitly.

--exclude-hidden=[fetch|receive|uploadpack]

Do not include refs that would be hidden by git-fetch, git-receive-pack or git-upload-pack by consulting the appropriate fetch.hideRefs, receive.hideRefs or uploadpack.hideRefs configuration along with transfer.hideRefs (see git-config[1]). This option affects the next pseudo-ref option --all or --glob and is cleared after processing them.

--reflog

Pretend as if all objects mentioned by reflogs are listed on the command line as <commit>.

--alternate-refs

Pretend as if all objects mentioned as ref tips of alternate repositories were listed on the command line. An alternate repository is any repository whose object directory is specified in objects/info/alternates. The set of included objects may be modified by core.alternateRefsCommand, etc. See git-config[1].

--single-worktree

By default, all working trees will be examined by the following options when there are more than one (see git-worktree[1]): --all, --reflog and --indexed-objects. This option forces them to examine the current working tree only.

--ignore-missing

Upon seeing an invalid object name in the input, pretend as if the bad input was not given.

--bisect

Pretend as if the bad bisection ref refs/bisect/bad was listed and as if it was followed by --not and the good bisection refs refs/bisect/good-* on the command line.

--stdin

In addition to getting arguments from the command line, read them from standard input as well. This accepts commits and pseudo-options like --all and --glob=. When a -- separator is seen, the following input is treated as paths and used to limit the result.

--cherry-mark

Like --cherry-pick (see below) but mark equivalent commits with = rather than omitting them, and inequivalent ones with +.

--cherry-pick

Omit any commit that introduces the same change as another commit on the "other side" when the set of commits are limited with symmetric difference.

For example, if you have two branches, A and B, a usual way to list all commits on only one side of them is with --left-right (see the example below in the description of the --left-right option). However, it shows the commits that were cherry-picked from the other branch (for example, "3rd on b" may be cherry-picked from branch A). With this option, such pairs of commits are excluded from the output.

--left-only

--right-only

List only commits on the respective side of a symmetric difference, i.e. only those which would be marked < resp. > by --left-right.

For example, --cherry-pick --right-only A...B omits those commits from B which are in A or are patch-equivalent to a commit in A. In other words, this lists the + commits from git cherry A B. More precisely, --cherry-pick --right-only --no-merges gives the exact list.

--cherry

A synonym for --right-only --cherry-mark --no-merges; useful to limit the output to the commits on our side and mark those that have been applied to the other side of a forked history with git log --cherry upstream...mybranch, similar to git cherry upstream mybranch.

-g

--walk-reflogs

Instead of walking the commit ancestry chain, walk reflog entries from the most recent one to older ones. When this option is used you cannot specify commits to exclude (that is, ^commit, commit1...commit2, and commit1...commit2 notations cannot be used).

With --pretty format other than oneline and reference (for obvious reasons), this causes the output to have two extra lines of information taken from the reflog. The reflog designator in the output may be shown as ref@{Nth} (where Nth is the reverse-chronological index in the reflog) or as ref@{timestamp} (with the timestamp for that entry), depending on a few rules:

If the starting point is specified as ref@{Nth}, show the index format.

If the starting point was specified as ref@{now}, show the timestamp format.

If neither was used, but --date was given on the command line, show the timestamp in the format requested by --date.

Otherwise, show the index format.

Under --pretty=oneline, the commit message is prefixed with this information on the same line. This option cannot be combined with --reverse. See also git-reflog[1].

Under --pretty=reference, this information will not be shown at all.

| - | m | ıe | r | zе |
|---|---|----|---|----|

After a failed merge, show refs that touch files having a conflict and don't exist on all heads to merge.

--boundary

Output excluded boundary commits. Boundary commits are prefixed with -.

History Simplification

Sometimes you are only interested in parts of the history, for example the commits modifying a particular <path>. But there are two parts of History Simplification, one part is selecting the commits and the other is how to do it, as there are various strategies to simplify the history.

The following options select the commits to be shown:

<paths>

Commits modifying the given <paths> are selected.

--simplify-by-decoration

Commits that are referred by some branch or tag are selected.

Note that extra commits can be shown to give a meaningful history.

The following options affect the way the simplification is performed:

Default mode

Simplifies the history to the simplest history explaining the final state of the tree. Simplest because it prunes some side branches if the end result is the same (i.e. merging branches with the same content)

--show-pulls

Include all commits from the default mode, but also any merge commits that are not TREESAME to the first parent but are TREESAME to a later parent. This mode is helpful for showing the merge commits that "first introduced" a change to a branch.

--full-history

Same as the default mode, but does not prune some history.

--dense

Only the selected commits are shown, plus some to have a meaningful history.

--sparse

All commits in the simplified history are shown.

--simplify-merges

Additional option to --full-history to remove some needless merges from the resulting history, as there are no selected commits contributing to this merge.

--ancestry-path[=<commit>]

When given a range of commits to display (e.g. commit1..commit2 or commit2 ^commit1), only display commits in that range that are ancestors of <commit>, descendants of <commit>, or <commit> itself. If no commit is specified, use commit1 (the excluded part of the range) as <commit>. Can be passed multiple times; if so, a commit is included if it is any of the commits given or if it is an ancestor or descendant of one of them.

A more detailed explanation follows.

Suppose you specified foo as the <paths>. We shall call commits that modify foo !TREESAME, and the rest TREESAME. (In a diff filtered for foo, they look different and equal, respectively.)

In the following, we will always refer to the same example history to illustrate the differences between simplification settings. We assume that you are filtering for a file foo in this commit graph:

The horizontal line of history A---Q is taken to be the first parent of each merge. The commits are:

I is the initial commit, in which foo exists with contents "asdf", and a file quux exists with contents "quux". Initial commits are compared to an empty tree, so I is !TREESAME.

In A, foo contains just "foo".

B contains the same change as A. Its merge M is trivial and hence TREESAME to all parents.

C does not change foo, but its merge N changes it to "foobar", so it is not TREESAME to any parent.

D sets foo to "baz". Its merge O combines the strings from N and D to "foobarbaz"; i.e., it is not TREESAME to any parent.

E changes quux to "xyzzy", and its merge P combines the strings to "quux xyzzy". P is TREESAME to O, but not to E.

X is an independent root commit that added a new file side, and Y modified it. Y is TREESAME to X. Its merge Q added side to P, and Q is TREESAME to P, but not to Y.

rev-list walks backwards through history, including or excluding commits based on whether --full-history and/or parent rewriting (via --parents or --children) are used. The following settings are available.

Default mode

Commits are included if they are not TREESAME to any parent (though this can be changed, see --sparse below). If the commit was a merge, and it was TREESAME to one parent, follow only that parent. (Even if there are several TREESAME parents, follow only one of them.) Otherwise, follow all parents.

This results in:

Note how the rule to only follow the TREESAME parent, if one is available, removed B from consideration entirely. C was considered via N, but is TREESAME. Root commits are compared to an empty tree, so I is !TREESAME.

Parent/child relations are only visible with --parents, but that does not affect the commits selected in default mode, so we have shown the parent lines.

--full-history without parent rewriting

This mode differs from the default in one point: always follow all parents of a merge, even if it is TREESAME to one of them. Even if more than one side of the merge has commits that are included, this does not imply that the merge itself is! In the example, we get

IABNDOPQ

M was excluded because it is TREESAME to both parents. E, C and B were all walked, but only B was !TREESAME, so the others do not appear.

Note that without parent rewriting, it is not really possible to talk about the parent/child relationships between the commits, so we show them disconnected.

--full-history with parent rewriting

Ordinary commits are only included if they are !TREESAME (though this can be changed, see --sparse below).

Merges are always included. However, their parent list is rewritten: Along each parent, prune away commits that are not included themselves. This results in

Compare to --full-history without rewriting above. Note that E was pruned away because it is TREESAME, but the parent list of P was rewritten to contain E's parent I. The same happened for C and N, and X, Y and Q.

In addition to the above settings, you can change whether TREESAME affects inclusion:

--dense

Commits that are walked are included if they are not TREESAME to any parent.

--sparse

All commits that are walked are included.

Note that without --full-history, this still simplifies merges: if one of the parents is TREESAME, we follow only that one, so the other sides of the merge are never walked.

--simplify-merges

First, build a history graph in the same way that --full-history with parent rewriting does (see above).

Then simplify each commit C to its replacement C' in the final history according to the following rules:

Set C' to C.

Replace each parent P of C' with its simplification P'. In the process, drop parents that are ancestors of other parents or that are root commits TREESAME to an empty tree, and remove duplicates, but take care to never drop all parents that we are TREESAME to.

If after this parent rewriting, C' is a root or merge commit (has zero or >1 parents), a boundary commit, or !TREESAME, it remains. Otherwise, it is replaced with its only parent.

The effect of this is best shown by way of comparing to --full-history with parent rewriting. The example turns into:

Note the major differences in N, P, and Q over --full-history:

N's parent list had I removed, because it is an ancestor of the other parent M. Still, N remained because it is !TREESAME.

P's parent list similarly had I removed. P was then removed completely, because it had one parent and is TREESAME.

Q's parent list had Y simplified to X. X was then removed, because it was a TREESAME root. Q was then removed completely, because it had one parent and is TREESAME.

There is another simplification mode available:

```
--ancestry-path[=<commit>]
```

Limit the displayed commits to those which are an ancestor of <commit>, or which are a descendant of <commit>, or are <commit> itself.

As an example use case, consider the following commit history:

A regular D..M computes the set of commits that are ancestors of M, but excludes the ones that are ancestors of D. This is useful to see what happened to the history leading to M since D, in the sense that "what does M have that did not exist in D". The result in this example would be all the commits, except A and B (and D itself, of course).

When we want to find out what commits in M are contaminated with the bug introduced by D and need fixing, however, we might want to view only the subset of D..M that are actually descendants of D, i.e. excluding C and K. This is exactly what the --ancestry-path option does. Applied to the D..M range, it results in:

We can also use --ancestry-path=D instead of --ancestry-path which means the same thing when applied to the D..M range but is just more explicit.

If we instead are interested in a given topic within this range, and all commits affected by that topic, we may only want to view the subset of D..M which contain that topic in their ancestry path. So, using -- ancestry-path=H D..M for example would result in:

Whereas --ancestry-path=K D..M would result in

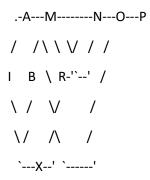
Before discussing another option, --show-pulls, we need to create a new example history.

A common problem users face when looking at simplified history is that a commit they know changed a file somehow does not appear in the file's simplified history. Let's demonstrate a new example and show how options such as --full-history and --simplify-merges works in that case:

For this example, suppose I created file.txt which was modified by A, B, and X in different ways. The single-parent commits C, Z, and Y do not change file.txt. The merge commit M was created by resolving the merge conflict to include both changes from A and B and hence is not TREESAME to either. The merge commit R, however, was created by ignoring the contents of file.txt at M and taking only the contents of file.txt at X. Hence, R is TREESAME to X but not M. Finally, the natural merge resolution to create N is to take the contents of file.txt at R, so N is TREESAME to R but not C. The merge commits O and P are TREESAME to their first parents, but not to their second parents, Z and Y respectively.

When using the default mode, N and R both have a TREESAME parent, so those edges are walked and the others are ignored. The resulting history graph is:

When using --full-history, Git walks every edge. This will discover the commits A and B and the merge M, but also will reveal the merge commits O and P. With parent rewriting, the resulting graph is:



Here, the merge commits O and P contribute extra noise, as they did not actually contribute a change to file.txt. They only merged a topic that was based on an older version of file.txt. This is a common issue in repositories using a workflow where many contributors work in parallel and merge their topic branches along a single trunk: many unrelated merges appear in the --full-history results.

When using the --simplify-merges option, the commits O and P disappear from the results. This is because the rewritten second parents of O and P are reachable from their first parents. Those edges are removed and then the commits look like single-parent commits that are TREESAME to their parent. This also happens to the commit N, resulting in a history view as follows:

In this view, we see all of the important single-parent changes from A, B, and X. We also see the carefully-resolved merge M and the not-so-carefully-resolved merge R. This is usually enough information to determine why the commits A and B "disappeared" from history in the default view. However, there are a few issues with this approach.

The first issue is performance. Unlike any previous option, the --simplify-merges option requires walking the entire commit history before returning a single result. This can make the option difficult to use for very large repositories.

The second issue is one of auditing. When many contributors are working on the same repository, it is important which merge commits introduced a change into an important branch. The problematic merge R above is not likely to be the merge commit that was used to merge into an important branch. Instead,

the merge N was used to merge R and X into the important branch. This commit may have information about why the change X came to override the changes from A and B in its commit message.

--show-pulls

In addition to the commits shown in the default history, show each merge commit that is not TREESAME to its first parent but is TREESAME to a later parent.

When a merge commit is included by --show-pulls, the merge is treated as if it "pulled" the change from another branch. When using --show-pulls on this example (and no other options) the resulting graph is:

Here, the merge commits R and N are included because they pulled the commits X and R into the base branch, respectively. These merges are the reason the commits A and B do not appear in the default history.

When --show-pulls is paired with --simplify-merges, the graph includes all of the necessary information:

Notice that since M is reachable from R, the edge from N to M was simplified away. However, N still appears in the history as an important commit because it "pulled" the change R into the main branch.

The --simplify-by-decoration option allows you to view only the big picture of the topology of the history, by omitting commits that are not referenced by tags. Commits are marked as !TREESAME (in other words, kept after history simplification rules described above) if (1) they are referenced by tags, or (2) they change the contents of the paths given on the command line. All other commits are marked as TREESAME (subject to be simplified away).

Commit Ordering

By default, the commits are shown in reverse chronological order.

--date-order

Show no parents before all of its children are shown, but otherwise show commits in the commit timestamp order.

--author-date-order

Show no parents before all of its children are shown, but otherwise show commits in the author timestamp order.

--topo-order

Show no parents before all of its children are shown, and avoid showing commits on multiple lines of history intermixed.

For example, in a commit history like this:

where the numbers denote the order of commit timestamps, git rev-list and friends with --date-order show the commits in the timestamp order: 8 7 6 5 4 3 2 1.

With --topo-order, they would show 8 6 5 3 7 4 2 1 (or 8 7 4 2 6 5 3 1); some older commits are shown before newer ones in order to avoid showing the commits from two parallel development track mixed together.

--reverse

Output the commits chosen to be shown (see Commit Limiting section above) in reverse order. Cannot be combined with --walk-reflogs.

Object Traversal

These options are mostly targeted for packing of Git repositories.

--no-walk[=(sorted|unsorted)]

Only show the given commits, but do not traverse their ancestors. This has no effect if a range is specified. If the argument unsorted is given, the commits are shown in the order they were given on the command line. Otherwise (if sorted or no argument was given), the commits are shown in reverse chronological order by commit time. Cannot be combined with --graph.

--do-walk

Overrides a previous --no-walk.

Commit Formatting

--pretty[=<format>]

--format=<format>

Pretty-print the contents of the commit logs in a given format, where <format> can be one of oneline, short, medium, full, fuller, reference, email, raw, format:<string> and tformat:<string>. When <format> is none of the above, and has %placeholder in it, it acts as if --pretty=tformat:<format> were given.

See the "PRETTY FORMATS" section for some additional details for each format. When =<format> part is omitted, it defaults to medium.

Note: you can specify the default pretty format in the repository configuration (see git-config[1]).

--abbrev-commit

Instead of showing the full 40-byte hexadecimal commit object name, show a prefix that names the object uniquely. "--abbrev=<n>" (which also modifies diff output, if it is displayed) option can be used to specify the minimum length of the prefix.

This should make "--pretty=oneline" a whole lot more readable for people using 80-column terminals.

--no-abbrev-commit

Show the full 40-byte hexadecimal commit object name. This negates --abbrev-commit, either explicit or implied by other options such as "--oneline". It also overrides the log.abbrevCommit variable.

--oneline

This is a shorthand for "--pretty=oneline --abbrev-commit" used together.

--encoding=<encoding>

Commit objects record the character encoding used for the log message in their encoding header; this option can be used to tell the command to re-code the commit log message in the encoding preferred by the user. For non plumbing commands this defaults to UTF-8. Note that if an object claims to be encoded in X and we are outputting in X, we will output the object verbatim; this means that invalid sequences in the original commit may be copied to the output. Likewise, if iconv(3) fails to convert the commit, we will quietly output the original object verbatim.

- --expand-tabs=<n>
- --expand-tabs
- --no-expand-tabs

Perform a tab expansion (replace each tab with enough spaces to fill to the next display column that is multiple of <n>) in the log message before showing it in the output. --expand-tabs is a short-hand for --expand-tabs=8, and --no-expand-tabs is a short-hand for --expand-tabs=0, which disables tab expansion.

By default, tabs are expanded in pretty formats that indent the log message by 4 spaces (i.e. medium, which is the default, full, and fuller).

--notes[=<ref>]

Show the notes (see git-notes[1]) that annotate the commit, when showing the commit log message. This is the default for git log, git show and git whatchanged commands when there is no --pretty, --format, or --oneline option given on the command line.

By default, the notes shown are from the notes refs listed in the core.notesRef and notes.displayRef variables (or corresponding environment overrides). See git-config[1] for more details.

With an optional <ref> argument, use the ref to find the notes to display. The ref can specify the full refname when it begins with refs/notes/; when it begins with notes/, refs/ and otherwise refs/notes/ is prefixed to form a full name of the ref.

Multiple --notes options can be combined to control which notes are being displayed. Examples: "--notes=foo" will show only notes from "refs/notes/foo"; "--notes=foo --notes" will show both notes from "refs/notes/foo" and from the default notes ref(s).

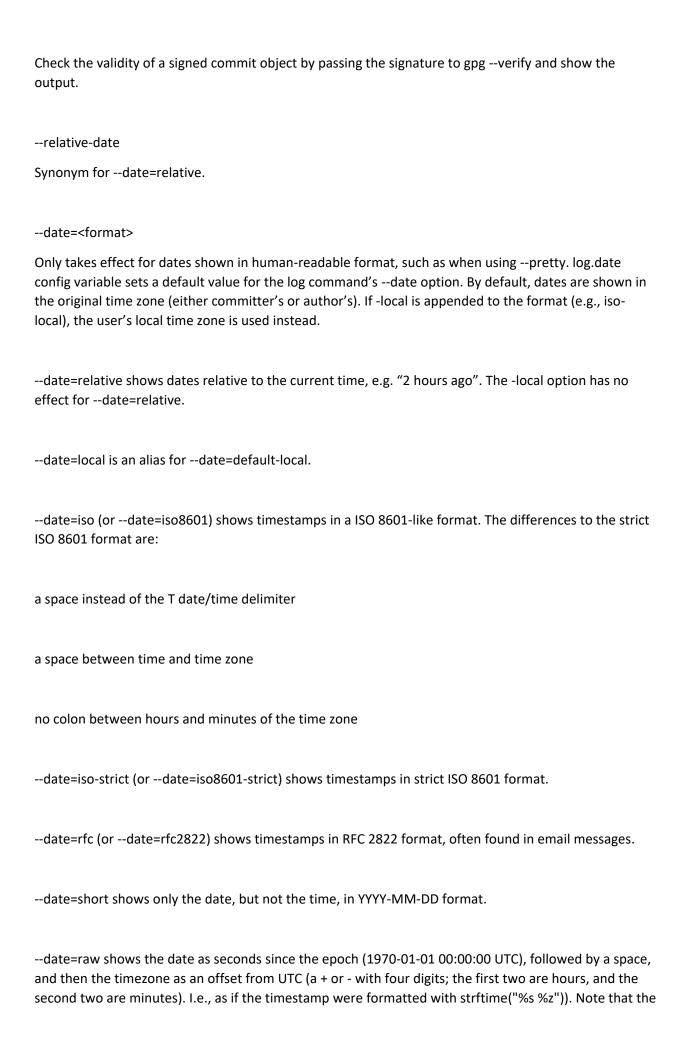
--no-notes

Do not show notes. This negates the above --notes option, by resetting the list of notes refs from which notes are shown. Options are parsed in the order given on the command line, so e.g. "--notes --notes=foo --no-notes --notes=bar" will only show notes from "refs/notes/bar".

- --show-notes[=<ref>]
- --[no-]standard-notes

These options are deprecated. Use the above --notes/--no-notes options instead.

--show-signature



-local option does not affect the seconds-since-epoch value (which is always measured in UTC), but does switch the accompanying timezone value.

--date=human shows the timezone if the timezone does not match the current time-zone, and doesn't print the whole date if that matches (ie skip printing year for dates that are "this year", but also skip the whole date itself if it's in the last few days and we can just say what weekday it was). For older dates the hour and minute is also omitted.

--date=unix shows the date as a Unix epoch timestamp (seconds since 1970). As with --raw, this is always in UTC and therefore -local has no effect.

--date=format:... feeds the format ... to your system strftime, except for %s, %z, and %Z, which are handled internally. Use --date=format:%c to show the date in your system locale's preferred format. See the strftime manual for a complete list of format placeholders. When using -local, the correct syntax is --date=format-local:....

--date=default is the default format, and is based on ctime(3) output. It shows a single line with three-letter day of the week, three-letter month, day-of-month, hour-minute-seconds in "HH:MM:SS" format, followed by 4-digit year, plus timezone information, unless the local time zone is used, e.g. Thu Jan 1 00:00:00 1970 +0000.

--parents

Print also the parents of the commit (in the form "commit parent..."). Also enables parent rewriting, see History Simplification above.

--children

Print also the children of the commit (in the form "commit child..."). Also enables parent rewriting, see History Simplification above.

--left-right

Mark which side of a symmetric difference a commit is reachable from. Commits from the left side are prefixed with < and those from the right with >. If combined with --boundary, those commits are prefixed with -.

For example, if you have this topology:

```
/ .
/ /\
o---x---a branch A
```

you would get an output like this:

-xxxxxxxx... 1st on a

```
$ git rev-list --left-right --boundary --pretty=oneline A...B

>bbbbbbb... 3rd on b

>bbbbbbb... 2nd on b

<aaaaaaa... 3rd on a

-yyyyyyy... 1st on b
```

--graph

Draw a text-based graphical representation of the commit history on the left hand side of the output. This may cause extra lines to be printed in between commits, in order for the graph history to be drawn properly. Cannot be combined with --no-walk.

This enables parent rewriting, see History Simplification above.

This implies the --topo-order option by default, but the --date-order option may also be specified.

```
--show-linear-break[=<barrier>]
```

When --graph is not used, all history branches are flattened which can make it hard to see that the two consecutive commits do not belong to a linear branch. This option puts a barrier in between them in that case. If <barrier> is specified, it is the string that will be shown instead of the default one.