# 2.43.1

Git 2.43.1 Release Notes ==========

There is nothing exciting to see here. Relative to Git 2.43, this release contains the fixes that have already been merged to the ’master’ branch of the development towards the next major release.

Fixes since Git 2.43.0 ----------

- The way CI testing used "prove" could lead to running the test suite twice needlessly, which has been corrected.
- Newer versions of Getopt::Long started giving warnings against our (ab)use of it in "git send-email". Bump the minimum version requirement for Perl to 5.8.1 (from September 2002) to allow simplifying our implementation.
- Earlier we stopped relying on commit-graph that (still) records information about commits that are lost from the object store, which has negative performance implications. The default has been flipped to disable this pessimization.
- Stale URLs have been updated to their current counterparts (or archive.org) and HTTP links are replaced with working HTTPS links.
- trace2 streams used to record the URLs that potentially embed authentication material, which has been corrected.
- The sample pre-commit hook that tries to catch introduction of new paths that use potentially non-portable characters did not notice an existing path getting renamed to such a problematic path, when rename detection was enabled.
- The command line parser for the "log" family of commands was too loose when parsing certain numbers, e.g., silently ignoring the extra ’q’ in "git log -n 1q" without complaining, which has been tightened up.
- "git $cmd --end-of-options --rev — --path" for some $cmd failed to interpret "--rev" as a rev, and "--path" as a path. This was fixed for many programs like "reset" and "checkout".
- "git bisect reset" has been taught to clean up state files and refs even when BISECT_START file is gone.
- Some codepaths did not correctly parse configuration variables specified with valueless "true", which has been corrected.

- Code clean-up for sanity checking of command line options for "git show-ref".
- The code to parse the From e-mail header has been updated to avoid recursion.
- "git fetch --atomic" issued an unnecessary empty error message, which has been corrected.
- Command line completion script (in contrib/) learned to work better with the reftable backend.
- "git status" is taught to show both the branch being bisected and being rebased when both are in effect at the same time. cf. <xmqqil76kyov.fsf@gitster.g>
- "git archive --list extra garbage" silently ignored excess command line parameters, which has been corrected.
- "git sparse-checkout set" added default patterns even when the patterns are being fed from the standard input, which has been corrected.
- Unlike other environment variables that took the usual true/false/yes/no as well as 0/1, GIT_FLUSH only understood 0/1, which has been corrected.
- Clearing in-core repository (happens during e.g., "git fetch --recurse-submodules" with commit graph enabled) made in-core commit object in an inconsistent state by discarding the necessary data from commit-graph too early, which has been corrected.

Also contains various documentation updates, code clean-ups and minor fixups.

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