2.42.1

Git 2.42.1 Release Notes ==========

There is nothing exciting to see here. Relative to Git 2.42, this release contains the fixes that have already been merged to the ’master’ branch of the development towards Git 2.43 that has been tagged as Git 2.43.0-rc0.

Fixes since Git 2.42.0 ----------

- Tests that are known to pass with LSan are now marked as such.
- Flaky "git p4" tests, as well as "git svn" tests, are now skipped in the (rather expensive) sanitizer CI job.
- Tests with LSan from time to time seem to emit harmless message that makes our tests unnecessarily flaky; we work it around by filtering the uninteresting output.
- GitHub CI workflow has learned to trigger Coverity check.
- Overly long label names used in the sequencer machinery are now chopped to fit under filesystem limitation.
- Scalar updates.
- Tweak GitHub Actions CI so that pushing the same commit to multiple branch tips at the same time will not waste building and testing the same thing twice.
- The commit-graph verification code that detects mixture of zero and non-zero generation numbers has been updated.
- "git diff -w --exit-code" with various options did not work correctly, which is being addressed.
- transfer.unpackLimit ought to be used as a fallback, but overrode fetch.unpackLimit and receive.unpackLimit instead.
- The use of API between two calls to require_clean_work_tree() from the sequencer code has been cleaned up for consistency.
- "git diff --no-such-option" and other corner cases around the exit status of the "diff" command has been corrected.

- "git for-each-ref --sort=’contents:size’" sorts the refs according to size numerically, giving a ref that points at a blob twelve-byte (12) long before showing a blob hundred-byte (100) long.

- Various fixes to the behavior of "rebase -i" when the command got interrupted by conflicting changes.

- References from description of the `--patch` option in various manual pages have been simplified and improved.

- "git grep -e A --no-or -e B" is accepted, even though the negation of "or" did not mean anything, which has been tightened.

- The completion script (in contrib/) has been taught to treat the "-t" option to "git checkout" and "git switch" just like the "--track" option, to complete remote-tracking branches.

- "git diff --no-index -R <(one) <(two)" did not work correctly, which has been corrected.

- Update "git maintenance" timers’ implementation based on systemd timers to work with WSL.

- "git diff --cached" codepath did not fill the necessary stat information for a file when fsmonitor knows it is clean and ended up behaving as if it is not clean, which has been corrected.

- Clarify how "alias.foo = : git cmd ; aliased-command-string" should be spelled with necessary whitespaces around punctuation marks to work.

- HTTP Header redaction code has been adjusted for a newer version of cURL library that shows its traces differently from earlier versions.

- An error message given by "git send-email" when given a malformed address did not give correct information, which has been corrected.

- UBSan options were not propagated through the test framework to git run via the httpd, unlike ASan options, which has been corrected.

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

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