2.10.2

Git v2.10.2 Release Notes ==========================

Fixes since v2.10.1 --------------------

- The code that parses the format parameter of for-each-ref command has seen a micro-optimization.

- The "graph" API used in "git log --graph" miscounted the number of output columns consumed so far when drawing a padding line, which has been fixed; this did not affect any existing code as nobody tried to write anything after the padding on such a line, though.

- Almost everybody uses DEFAULT_ABBREV to refer to the default setting for the abbreviation, but "git blame" peeked into underlying variable bypassing the macro for no good reason.

- Doc update to clarify what "log -3 --reverse" does.

- An author name, that spelled a backslash-quoted double quote in the human readable part "My "double quoted" name", was not unquoted correctly while applying a patch from a piece of e-mail.

- The original command line syntax for "git merge", which was "git merge <msg> HEAD <parent>...", has been deprecated for quite some time, and "git gui" was the last in-tree user of the syntax. This is finally fixed, so that we can move forward with the deprecation.

- Codepaths that read from an on-disk loose object were too loose in validating what they are reading is a proper object file and sometimes read past the data they read from the disk, which has been corrected. H/t to Gustavo Grieco for reporting.

- "git worktree", even though it used the default_abbrev setting that ought to be affected by core.abbrev configuration variable, ignored the variable setting. The command has been taught to read the default set of configuration variables to correct this.

- A low-level function verify_packfile() was meant to show errors that were detected without dying itself, but under some conditions it didn’t and died instead, which has been fixed.

- When "git fetch" tries to find where the history of the repository it runs in has diverged from what the other side has, it has a mechanism to avoid digging too deep into irrelevant side branches. This however did not work well over the "smart-http" transport due to a design bug, which has been fixed.

- When we started cURL to talk to imap server when a new enough version of cURL library is available, we forgot to explicitly add imap(s): and the library tried to make HTTP(s) requests instead.

- The ./configure script generated from configure.ac was taught how to detect support of SSL by libcurl better.

- http.emptyauth configuration is a way to allow an empty username to pass when attempting to authenticate using mechanisms like Kerberos. We took an unspecified (NULL) username and sent ":" (i.e. no username, no password) to CURLOPT_USERPWD, but did not do the same when the username is explicitly set to an empty string.

- "git clone" of a local repository can be done at the filesystem level, but the codepath did not check errors while copying and adjusting the file that lists alternate object stores.

- Documentation for "git commit" was updated to clarify that "commit -p <paths>" adds to the current contents of the index to come up with what to commit.

- A stray symbolic link in $GIT_DIR/refs/ directory could make name resolution loop forever, which has been corrected.

- The "submodule.<name>.path" stored in .gitmodules is never copied to .git/config and such a key in .git/config has no meaning, but the documentation described it and submodule.<name>.url next to each other as if both belong to .git/config. This has been fixed.

- Recent git allows submodule.<name>.branch to use a special token "." instead of the branch name; the documentation has been updated to describe it.

- In a worktree connected to a repository elsewhere, created via "git worktree", "git checkout" attempts to protect users from confusion by refusing to check out a branch that is already checked out in another worktree. However, this also prevented checking out a branch, which is designated as the primary branch of a bare repository, in a worktree that is connected to the bare repository. The check has been corrected to allow it.

- "git rebase" immediately after "git clone" failed to find the fork point from the upstream.

- When fetching from a remote that has many tags that are irrelevant to branches we are following, we used to waste way too many cycles when checking if the object pointed at by a tag (that we are not going to fetch!) exists in our repository too carefully.

- The Travis CI configuration we ship ran the tests with --verbose option but this risks non-TAP output that happens to be "ok" to be misinterpreted as TAP signalling a test that passed. This resulted in unnecessary failure. This has been corrected by introducing a new mode to run our tests in the test harness to send the verbose output separately to the log file.

- Some AsciiDoc formatter mishandles a displayed illustration with tabs in it. Adjust a few of them in merge-base documentation to work around them.

Also contains minor documentation updates and code clean-ups.

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