If filename include Scandinavian character, Redmine convert them another character. In this case, filename "TEKIJÄT" replaces string "TEKIJ\303\204T".

Related issues:
- Related to Redmine - Defect # 2664: Mercurial: Repository path encoding of non UTF-8 characters
- Related to Redmine - Feature # 3396: Git: use --encoding=UTF-8 in "git log"
- Duplicated by Redmine - Defect # 9107: Git: Redmine can't show Simplified Chinese characters

Associated revisions
- Revision 5023 - 2011-03-07 13:41 - Toshi MARUYAMA
  scm: git: add core.quotepath = true in test repository config (#5251).

- Revision 5024 - 2011-03-07 13:42 - Toshi MARUYAMA
  scm: git: add core.quotepath = false to run git command (#5251).

- Revision 5025 - 2011-03-07 14:14 - Toshi MARUYAMA
  scm: git: change core.quotepath = true temporarily to run git command (#5251).

- Revision 5026 - 2011-03-07 14:15 - Toshi MARUYAMA
  scm: git: update test repository for path encoding (#5251).

Mercurial and Git treats file names as byte string.
This git test repository contains Latin-1 encoding path.
Be careful on non Latin-1(CP1252) Windows.

Please see r4996 comment.

- Revision 5027 - 2011-03-07 14:46 - Toshi MARUYAMA
  scm: git: backout r5026 (#5251).

In case git repository contains latin-1 path,
although Redmine uses "git log -C core.quotepath=false --encoding=UTF-8",...
log encoding is latin-1.

**Revision 5028 - 2011-03-07 14:46 - Toshi MARUYAMA**

scm: git: use core.quotepath = true to run git command for database safety (#5251).

**Revision 5029 - 2011-03-07 15:09 - Toshi MARUYAMA**

scm: git: remove "core.quotepath = true" to run git command (#5251).

If path encoding is UTF-8, git adapter may run on Linux.

**Revision 5033 - 2011-03-08 00:47 - Toshi MARUYAMA**

scm: git: update test repository for path encoding (#5251).

Mercurial and Git treats file names as byte string.
This git test repository contains Latin-1 encoding path.
Be careful on non Latin-1(CP1252) Windows.

Please see r4996 comment.

I removed a revision including "copied file" from r5026 test repository.
Mercurial supports "copy", but Git does not support.

**Revision 5035 - 2011-03-08 04:29 - Toshi MARUYAMA**

scm: git: add instance variable for path encoding in adapter (#5251).

**Revision 5036 - 2011-03-08 04:29 - Toshi MARUYAMA**

scm: git: convert path encoding in "git log" (#5251).

**Revision 5038 - 2011-03-08 05:50 - Toshi MARUYAMA**

scm: git: support path encoding in adapter revisions() (#5251).

**Revision 5039 - 2011-03-08 05:50 - Toshi MARUYAMA**

scm: git: support path encoding in adapter diff (#5251).

**Revision 5040 - 2011-03-08 05:50 - Toshi MARUYAMA**

scm: git: support path encoding in adapter entries() (#5251).
Revision 5041 - 2011-03-08 06:17 - Toshi MARUYAMA

scm: git: support path encoding in adapter blame (#5251).

Revision 5042 - 2011-03-08 06:17 - Toshi MARUYAMA

scm: git: support path encoding in adapter cat (#5251).

Revision 5044 - 2011-03-08 07:10 - Toshi MARUYAMA

scm: git: add tests for path encoding cat, diff and blame in unit adapter test (#5251).

Revision 5049 - 2011-03-08 07:38 - Toshi MARUYAMA

scm: git: add core.quotepath = false to run git command (#5251).

Revision 5050 - 2011-03-08 07:38 - Toshi MARUYAMA

scm: git: add tests for path encoding entries() in unit adapter test (#5251).

Revision 5051 - 2011-03-08 07:49 - Toshi MARUYAMA

scm: git: prepare path encoding test in unit model test (#5251).

Revision 5057 - 2011-03-08 08:41 - Toshi MARUYAMA

scm: git: prepare path encoding test in unit model test (#5251).

Revision 5058 - 2011-03-08 08:41 - Toshi MARUYAMA

scm: git: add latest changesets path encoding test in unit model test (#5251).

Revision 5060 - 2011-03-08 12:01 - Toshi MARUYAMA

scm: git: add latin-1 encoding directory to test repository (#5251).

Revision 5061 - 2011-03-08 12:13 - Toshi MARUYAMA

scm: git: fix latin-1 directory entries() in adapter (#5251).

Revision 5062 - 2011-03-08 13:08 - Toshi MARUYAMA

scm: git: add latin-1 encoding directory test in unit adapter test (#5251).
Revision 5063 - 2011-03-08 13:08 - Toshi MARUYAMA

scm: git: add latin-1 encoding directory test in unit model test (#5251).

Revision 5064 - 2011-03-08 13:08 - Toshi MARUYAMA

scm: git: add path encoding select box at setting (#5251).

Revision 5065 - 2011-03-08 13:45 - Toshi MARUYAMA

scm: git: fix unit adapter test fails in Ruby 1.9 Linux latin-1 locale (#5251).

Revision 5066 - 2011-03-08 14:22 - Toshi MARUYAMA

scm: git: fix unit adapter test fails in Ruby 1.9 Linux latin-1 locale (#5251).

Revision 5068 - 2011-03-09 00:18 - Toshi MARUYAMA

scm: git: change core.quotepath to false in test repository config (#5251).

The -c option was introduced in git version (1.7.2)
http://www.kernel.org/pub/software/scm/git/docs/RelNotes-1.7.2.txt

Revision 5069 - 2011-03-09 00:30 - Toshi MARUYAMA

scm: git: switch "-c core.quotepath=false" in git version above 1.7.2 or not (#5251).

The -c option was introduced in git version (1.7.2)
http://www.kernel.org/pub/software/scm/git/docs/RelNotes-1.7.2.txt

Revision 5070 - 2011-03-09 02:25 - Toshi MARUYAMA


Revision 5071 - 2011-03-09 05:13 - Toshi MARUYAMA

scm: git: unit adapter latin-1 path encoding test passes on Japanese Windows (#5251).

Ruby uses ANSI api to fork a process on Windows.
Japanese Shift_JIS and Traditional Chinese Big5 have 0x5c(backslash) problem
and these are incompatible with ASCII.

Revision 5072 - 2011-03-09 05:14 - Toshi MARUYAMA
scm: git: unit model latin-1 path encoding test passes on Japanese Windows (#5251).

Ruby uses ANSI api to fork a process on Windows. Japanese Shift_JIS and Traditional Chinese Big5 have 0x5c(backslash) problem and these are incompatible with ASCII.

Revision 5520 - 2011-04-23 05:35 - Toshi MARUYAMA

scm: use i18n string at path encoding setting (#2274, #2664, #3462, #5251).

Revision 5521 - 2011-04-23 05:35 - Toshi MARUYAMA

scm: add Japanese translation "field_scm_path_encoding" (#2274, #2664, #3462, #5251).

Revision 5522 - 2011-04-23 05:36 - Toshi MARUYAMA

scm: update locales for path encoding setting (#2274, #2664, #3462, #5251).

Revision 5523 - 2011-04-23 05:36 - Toshi MARUYAMA

scm: use i18n string at path encoding setting note (#2274, #2664, #3462, #5251).

Revision 5524 - 2011-04-23 05:37 - Toshi MARUYAMA

scm: add Japanese string at path encoding setting note (#2274, #2664, #3462, #5251).

Revision 5525 - 2011-04-23 05:37 - Toshi MARUYAMA

scm: update locales for path encoding setting note (#2274, #2664, #3462, #5251).

Revision 5628 - 2011-05-04 07:01 - Toshi MARUYAMA

scm: git: fix loss non ASCII paths if path_encoding is " (#5251).

Revision 5863 - 2011-05-21 04:16 - Toshi MARUYAMA

scm: add "path_encoding" method in abstract adapter (#2274, #3462, #2664, #5251).

Revision 5870 - 2011-05-21 04:39 - Toshi MARUYAMA

scm: git: override "path_encoding" method in adapter (#5251).

Revision 5871 - 2011-05-21 04:40 - Toshi MARUYAMA
scm: git: add unit adapter test of default path_encoding is UTF-8 (#5251).

Revision 6003 - 2011-06-08 12:05 - Toshi MARUYAMA

scm: git: skip non UTF-8 path encoding test of functional test in JRuby (#5251).

Git, Mercurial and CVS path encodings are binary.
Subversion supports URL encoding for path.
Redmine Mercurial adapter and extension use URL encoding.
Git accepts only binary path in command line parameter.
So, there is no way to use binary command line parameter in JRuby.

Revision 6004 - 2011-06-08 12:05 - Toshi MARUYAMA

scm: git: skip non UTF-8 path encoding test of unit adapter test in JRuby (#5251).

Git, Mercurial and CVS path encodings are binary.
Subversion supports URL encoding for path.
Redmine Mercurial adapter and extension use URL encoding.
Git accepts only binary path in command line parameter.
So, there is no way to use binary command line parameter in JRuby.

Revision 6005 - 2011-06-08 12:06 - Toshi MARUYAMA

scm: git: skip non UTF-8 path encoding test of unit model test in JRuby (#5251).

Git, Mercurial and CVS path encodings are binary.
Subversion supports URL encoding for path.
Redmine Mercurial adapter and extension use URL encoding.
Git accepts only binary path in command line parameter.
So, there is no way to use binary command line parameter in JRuby.

History

#1 - 2010-06-07 13:56 - Toshi MARUYAMA

Try "git config --global core.quotepath false".

#2 - 2010-06-07 15:03 - Toshi MARUYAMA

If your filename encoding is not UTF-8, try #2664 patches.

#3 - 2010-06-07 17:00 - Felix Schäfer

I'd have told you to try to set [[RedmineSettings#Repositories-encodings]] to whatever locale "scandinavian" is, but it seems it pertains only to file contents, not file names.
Mercurial (and also Git) treats file names as byte string. Here we need to convert them to UTF-8, but, there's no reliable info about file name encoding.

I update a patch for Git at note-19 of #2664.

Ruby 1.9 compatibility is very serious.

It is impossible to fix this issue in current git adapter scheme. Please see r5027 comment.

Toshi MARUYAMA wrote:

> It is impossible to fix this issue in current git adapter scheme.
copy latin-1 file.

--HG--
rename : latin-1-dir/test-?.txt => latin-1-dir/test-?-1.txt

Git log is binary, and f85f88f507577d log is broken.

#12 - 2011-03-08 15:53 - Toshi MARUYAMA
- % Done changed from 0 to 90

#13 - 2011-03-08 21:21 - Jean-Philippe Lang
r5049 broke all git tests with the git version currently used on the CI server (http://www.redmine.org/builds/index.html). The -c option was introduced in a recent git version (1.7.2). Is there any workaround for older versions?

#14 - 2011-03-09 05:22 - Toshi MARUYAMA
- Status changed from Reopened to 7
- Target version set to 1.2.0

#15 - 2011-03-09 10:47 - Toshi MARUYAMA
Jean-Philippe Lang wrote:
r5049 broke all git tests with the git version currently used on the CI server (http://www.redmine.org/builds/index.html). The -c option was introduced in a recent git version (1.7.2). Is there any workaround for older versions?

I fixed in r5068, r5069 and r5070.
I finished implementing in r5072.

Limitation

- Subversion supports URL encoding path and Redmine uses it.
  Mercurial adapter helper extension wraps path with URL encoding.
  Git adapter uses byte string to call "git" command.
  Because Ruby uses ANSI api to fork a process on Windows, it may have trouble in different locale on Windows.
- Git adapter uses "-c core.quotepath=false" if git version is above 1.7.2
  at source/trunk/lib/redmine/scm/adapters/git_adapter.rb@5069#L342.
  If your git is older than 1.7.2, you need to set "core.quotepath=false" in "config".
- Japanese Shift_JIS and Traditional Chinese Big5 have 0x5c(backslash) problem.

Related Ruby issue:
Bug 1771
system()/popen()/popen3() & windows & unicode is not working
http://redmine.ruby-lang.org/issues/show/1771

Files

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