

## Redmine - Defect #21141

### Git tags and branches need to be UTF-8 encoded

2015-11-03 20:00 - Holger Just

<b>Status:</b> Closed	<b>Start date:</b>
<b>Priority:</b> Normal	<b>Due date:</b>
<b>Assignee:</b>	<b>% Done:</b> 0%
<b>Category:</b> SCM	<b>Estimated time:</b> 0.00 hour
<b>Target version:</b>	<b>Affected version:</b>
<b>Resolution:</b> Duplicate	
<b>Description</b>	
<p>When shelling out and getting the list of git branches and tags to display in the repository navigation, the names are read in ASCII-8BIT encoding, i.e. binary strings without any encoding. This is basically correct as git itself doesn't enforce any kind of encoding for these things.</p> <p>However, when rendering the navigation with branches or tags containing non-ASCII characters, ERB throws the following error in source:trunk/app/views/repositories/show.html.erb#L21</p> <pre>Encoding::CompatibilityError: incompatible character encodings: ASCII-8BIT and UTF-8</pre> <p>The reason for this exception is that in source:trunk/app/views/repositories/_navigation.html.erb#L18, the select box for branches is rendered. If a branch name (in ASCII-8BIT encoding) can't be converted to UTF-8 implicitly, the whole output_buffer containing the rendered HTML will be set to ASCII-8BIT encoding. When the buffer is then appended to the outer UTF-8 buffer, the error is thrown.</p> <p>The solution is to force UTF-8 encoding to branch names, assuming they are stored in some UTF-8 like encoding. As we can't know the <i>actual</i> encoding of the branches, this is probably a good enough bet. In any case, it avoids HTTP 500 errors and renders something, even if the encoding doesn't fully match...</p> <p>The attached patch provides the forced encoding. Unfortunately, we can't use scm_iconv with the branches as it returns a new string which would not be a Branch instance anymore.</p> <p>The patch was extracted from and developed by <a href="#">Planio</a>. The patch is created against the current trunk at r14793. The patched issue is present since about forever but only manifests itself only on Ruby &gt;=1.9 and probably some kind-of-recent Rails, at least since Redmine 2.6.</p>	
<b>Related issues:</b>	
Duplicates Redmine - Defect # 16881: Git: repository page crashes when non-as...	<b>Closed</b>

#### History

##### #1 - 2015-11-03 20:12 - Toshi MARUYAMA

- Tracker changed from Patch to Defect
- Status changed from New to Closed
- Resolution set to Duplicate

Duplicate of #16881.

Git tag and branch are not always UTF-8.  
Redmine test git repository filename is latin-1.  
In this case tag and branch are latin-1.

#2 - 2015-11-03 20:15 - Toshi MARUYAMA

- Duplicates Defect #16881: Git: repository page crashes when non-ascii character in tag or branch name added

## Files

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0001-Force-encoding-of-git-branches-and-tags-to-UTF-8.patch	1.29 KB	2015-11-03	Holger Just
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