Smuxi - Feature # 288: automatic character recoding (e.g. latin1 <-> utf8)

Status:	Closed	Priority:	Normal
Author:	Michael Schmitt	Category:	Engine IRC
Created:	01/11/2010	Assigned to:	Ondrej Hošek
Updated:	05/27/2013	Due date:	
Complexity:	High		
Subject:	automatic character recoding (e.g. latin1 <-> utf8)		
Description:	I did a small survey, as most users are ignorant and do not want to change their encoding, smuxi schould recode as necessary as all major IRC clients do it nowadays anyway.		

Associated revisions

05/26/2013 10:28 PM - Ondrej HoÅjek

[Engine-(IRC), Frontend-GNOME] Support try-UTF-8-first encoding (closes #288).

Add a new connection option, AutoConvertUTF8, which will make outgoing messages UTF-8 and incoming messages UTF-8 with falling back to the chosen encoding if invalid UTF-8.

History

01/11/2010 12:00 PM - Mirco Bauer

The perl regex on this page might help to detect UTF-8 characters:

http://www.w3.org/International/questions/qa-forms-utf-8.en.php

01/11/2010 12:08 PM - Mirco Bauer

- Assigned to deleted (Mirco Bauer)

08/21/2010 10:34 AM - Mirco Bauer

In case the URL breaks or the content vanishes, here a snapshot of it:

\$field =~

m/\A(

[\x09\x0A\x0D\x20-\x7E] # ASCII

| \xF0[\x90-\xBF][\x80-\xBF]{2} # planes 1-3 | [\xF1-\xF3][\x80-\xBF]{3} # planes 4-15 | \xF4[\x80-\x8F][\x80-\xBF]{2} # plane 16

)*\z/x;

This expression can be adapted to other programming languages. It takes care of various issues, such as illegal overlong encodings and illegal use of surrogates. It will return true if \$field is UTF-8, and false otherwise.

08/22/2010 01:18 PM - Mirco Bauer

- Target version changed from 0.8 to TBD

08/22/2010 04:13 PM - Mirco Bauer

The branch that tries to deal with this:

http://git.gnetp.net/?p=smuxi.git;a=shortlog;h=refs/heads/feature/%23288_automatic_character_recoding

It can detect UTF8 but the recode part is not working.

04/12/2025 1/2

09/16/2010 09:24 PM - Raphaël Hertzog

+1 from me, this is really needed, it's one of the regressions that annoy me the most.

I see lots of ? instead of the accented characters on #debian-devel-fr. Some are going through correctly (for those that send UTF-8).

Example:

20:35 <bubble> et, indirectement, ? cause d'un bug de dak, ?a m'emp?che d'envoyer une mise ? jour de s?curit? dans t-p-u

22:38 <KiBi> oué hein :)

22:39 <KiBi> (faire des IO ? quel drôle d'idée pour une machine qui fait du SQL..)

09/23/2010 03:54 PM - Mirco Bauer

- Target version changed from TBD to 0.10
- Complexity set to High

Ok, I can't recode from ISO 8859-1 if it was already converted from raw bytes to a string as it removes UTF-8 values during that. The IRC lib has to either expose the raw bytes or handle the transformation.

Here the chat with alan about this issue:

17:48:40 <meebey> I think my issue is that the encoders are stripping unvalid values

17:48:51 <meebey> but I am not sure, maybe I am just too stupid

17:49:01 <meebey> the initial issue is that the input is not byte[]

17:49:10 <meebey> it is already parsed bytes in strings

17:49:17 <alan> It's too late then :)

17:49:21 <meebey> say iso8859-15

17:49:27 <meebey> but it preserves the utf8 values

17:49:33 <meebey> at leat I can see them

17:49:42 <alan> byte[] -> string is a lossy conversion if you have an invalid byte sequence

17:49:53 <meebey> sure?

17:49:55 <alan> so if you have invalid utf8 you discard those chars

17:49:55 <alan> aye

17:49:55 <alan> 100%

17:49:58 <alan> i hit this before :)

17:50:04 <alan> you have to use the raw bytes

17:50:10 <meebey> ok thanks

05/26/2013 09:16 PM - Mirco Bauer

- Category changed from Engine to Engine IRC
- Target version changed from 0.10 to 0.9

05/26/2013 11:54 PM - Mirco Bauer

- Assigned to set to Ondrej HoÅ;ek

05/27/2013 01:03 AM - Ondrej HoÅjek

- Status changed from New to Closed
- % Done changed from 0 to 100

Applied in changeset commit: bc2f323a9006ced64e3808550bead652e792c9e1".

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