

ì, ì½"ë" © ì'í•'í•~ê, °

ë<æ¥, ì-ì-éš" ë<æ¥, ë-ìžë¼ í„š"ëioe í•©ë<^ë<æ. ì~ì „ì ì°ëí„, ° ì, ì½"ë" ©ì€ í...ìšxíš, ë¼ ì €ìž¥í•~ê, ° ìœ„í•~ì—
í•„š"í•œ ë"ìšxí— ê³µê°, ì~ì-ì„ ìx„ìê, ° ìœ„í•~ì— "ì°ëí„, ° ì„, íš, " ë<¹ 255 ì°ëí„, °ëioe ì œí•œë~ì-´ ìž^ì—^ìšµë<^ë<æ.
ë³, ëž~ì~ ì°ëí„, ° ì„, íš, , ASCII, sm 128 ì°ëí„, °ëioe ì œí•œë~ì-´ ìž^ì—^ê³, ì~ì-ì—éš" ì ë<¹í-^ìšµë<^ë<æ.
œ ë<^½"ë"œ í™ œë™ ê³¼ UTF-8 ì, ì½"ë" ©ì€ ëª"ë" ì-ì-ì— ëœí•~ì— ëª"ë" ì°ëí„, °ë¼ ìµœëœí•œ íš"ê³¼ ìœ¼ëio
ìš€ì>í•~ê, °ìœ„í•~ì— ìfi„±ë~ì—^ìšµë<^ë<æ.
í<°í, æéš" ë, ´ë¶€ ìœ¼ëioe ëª"ë" ìž'ë™ì— ëœí•~ì— UTF-8 ì„ ì, ì—ìš©í•~ê³ ìž^ìœ¼ë©°, ëšxìš° ì~æžœ ì<œê°, „ ë™ì•
ê, ë †ê²œ í•ì™ "ìšµë<^ë<æ.

ì, ì½"ë" © ì<œë, ~ë|¬ì~æ

í•~ìš€ëšœ, MySQL ì€ ë³'ë<æ, ~ì€ íš"ìœ"ì„±ì„ ìœ„í•~ì— ë<æ¥, ì, ì½"ë" ©ì„ ì, ì—ìš©í•~éš" ê²fi„ í—^ìš©í•©ë<^ë<æ.
ê³¼ê±°ì—éš", í<°í, æê°€ MySQL ì—ê²œ ìœê³µí•~éš" ì»"í...ì, ì— ëœí•~ì— ìž~ëª»ëœ ì •ë³'ë¼ ì œê³µí•~ì€ìšµë<^ë<æ.
ë<xì-í•œ ê²°ê³¼ê°€ ì^ëž~ë ì~ ìž^ì—^ìšµë<^ë<æ.

UTF-8 ì, ñ, ë, €

ì `fi ì, `kœë, `ë|ñ`xì—ì,,œëŠ”, MySQL ë`í`í,,°ë² ì`šx ì,,œë²,,ê°€ UTF-8 ì, ì½”ë” ©ì,, ë°>ì•,,ë“xì´ê³ ë°`í`í,,°ë¥¼ UTF-8 ëioœ
ì €ž¥í•`ë,,ëi ì,,xì •ë`ëŠ” ê²fìž...ë^ë<x. ëª`ë“ ê,°ëš¥í´ ì •fi ìœ¼ëioœ ìž´ë™í•`ì`€ê³ ë°`í`í,,°ê°€ ë<xë¥,
ì`š©`í”,,ëioœê·ëž`ìœ¼ëioœë¶€í,,° ìžìœ ëiê²€ ì´ê·¼ë ì^` ìž`ì—`ìšμë<^ë<x. ì-´ë- í•œ ë°°í-í€ì€ ì´ëÿ° ì,,xì •ìœ¼ëioœ
ë,,ë<-í•`ê²€ ë`ëŠ” ì,,í€...ì,, ì œê³μí•`ì`ëìšμë<^ë<xëš€ , ë€ë¶ë¶ë¶,,ì` ê²½ìš°, ìkœìšxí...œ ê´ë|ñžê°€ ê°œìž...ì,,
í•`ì•¼ëš€ í-`ìšμë<^ë<x.

latin ì, ñëï€

éšŽi€ ê²½ìš°, MySQL ì' ì»"í...ì, ë¥¼ ë€€ë¶ë¶,,ì ì,,œìœ ëŸ½ ì-, ì- ì- ì ì ^í•œ ì, ì½"ë" ©ì, latin1 ìœ¼ëïœ ë°>ì•,,ë"æì'ê³
ì €ìž¥í•~ë,,ëi ì,,æì •ë~ì—^ìšµë^ë<æ. ì'ëŸ—í•œ ì,,æì • í•~ì—ì,,œëš" í<°í,æê°€ ì ,,ë© 'ì—ì,,œëš" ì œë€€ëïœ
ìž'ë™í-^ìšµë^ë<æ, í•~ìš€ëš€€, ë<æì€ê³¼ ê°™ì€ ë¶€ìž'ìš©ì' ìž^ì—^ìšµë^ë<æ:

- í<°í,æì— ì'í•~ì— ì €ìž¥ëœ ë°ì'í,,°ë¥¼ phpMyAdminê³¼ ê°™ì€ ë<æë¥,
ì'ìš©ì" „ëiœê·, ëž"ì—ì,,œ ì¶"ì¶œí•~ëš" ê²fì' ì'ìfí•~ê²€ ì, ì½"ë" œëœ ì°ë|í,,°ë"æì'
ë°œìfí•~ê²€ ë~ì—^ë<æ.
- ë°ì'í,,°ë² ì'ìšæë¥¼ ë<æë¥, ì,,œë²,,ëiœ ì'ë™í•~ëš" ê²fì' ì~^ì, í•~ìš€ ëª»í•œ ì~æë¥~ë¥¼
ì•¼ê, °í•~ì~€ë<æ.
- ëª©ì°"ì— ì^œì,,œë¥¼ ë¶€ì— ì'í•~ëš" ê²fì' ë- ìž'ìœ,,ì²~ëŸ¼ ë³'ì~€ë<æ.

ë"ë," ì,ì½"ë" ©

ë€ë¶ë¶ë¶,,ì ê³µìœ í,šxíœ...ì—ì,,œëš" ì,—ì'íš, ê'€ë|—žê°€ ì,,œë²,, ìfí~ ê,°ë³, ì—°ê²° ì,ì½"ë" ©ì— ëœ€í•~ì—
ì œì- 'ê¶œì' ì—†ìšµë^ë<œ. ì—°ê²° ì,ì½"ë" ©ì€ latin1 ìœ¼ëìœ ì,—ìš©ë~ê³ ìž^ì,, ì^~ë,, ìž^ìšµë^ë<œ. í•~ìš€ëšœ,
ë°ì'í,,°ë² ì'šxë¼ UTF-8 ìfì,,±í• ë•œ, ì,—ì'íš, ê'€ë|—žëš" ahems djsdjfmf wldnjsgkrl dnlgkdu ë°ì'í,,°ë² ì'šxë¼ UTF-8
ìœ¼ëìœ ëšœë"œê²œ ë©ë^ë<œ.

ì' ëÿ—í•œ ì,,xì •ì€ ê,°ê' ìšxëÿ—ìš' íš"ê³¼ë¼ ë,³ê²œ ë~ì—^ìšµë^ë<œ. í<°í,xê°€ UTF-8 ë°ì'í,,°ë¼ ì,,ì†í• ë•œ, MySQL
ì€ ì'ê²fì' latin1 ì'ë¼ê³ ë°>ì•,,ë"œì'ëš" ê²fìž...ë^ë<œ. ë°ì'í,,°ë² ì'šxê°€ UTF-8 ì,, ìš"ì²í•~ì€ê,° ë•œë—,ì—, ë³€í™ ~ì,,
ì<œë,,í•~ê³ ì'ìœ¼ëìœ ì,ì½"ë"œëœ UTF-8 ì,, ì•¼ê,°í•~ê²œ ë~ì—^ìšµë^ë<œ.
í~,,ì<xì—ì,,œ ì'ëÿ—í•œ ê²°ê³¼ëš" latin ì,—ëì€™ € ëšxìš° ìœ ì,—ì'í•~ê²œ ë~ì—^ìšµë^ë<œ.

ì • ë³ ´ ì†ì<¤

ë§Œì½ ì,,œë²,,ê°€ ê,°ë³,ììœ¼ëïœ UTF-8 ì—°ê²°ì,, ë°>ë,,ëi ì,,xì •ë~ì—^ê³ ë°ì'í,,°ë² ììšxê°€ latin1ìœ¼ëïœ ìfi,,±ë~ì—^ë<xë©´, í<°í,xëš" ì~¬ë°"ë¥´ê²Œ UTF-8 ë°ì'í,,°ë¥¼ ë³´ë,¼ ê²fi´ê³ MySQL ì€ ê,ë¥¼ ì,ìí• ê²fiž...ë^ë<x. í•~ì§€ë§Œ ì€ìž¥í• ì<œê°,,ì´ ë~ì—^ì,, ë•Œ, ë°ì'í,,°ëš" latin1 ìœ¼ëïœ ë³€í™~ë ê²fiž...ë^ë<x. UTF-8 ì´ ê,°í€ ì,½"ë"© ìç...ë¥~ë³´ë<x ë" ëšžì€ ì°ë|í,,°ë¥¼ ë³´ìœ í• ì^~ ìž^ê,°ë•Œë¬,ì—, ì•Œë xì§€ì§€ ä...žë,³ì€ ì°ë|í,,°ëš" ? í'œì<œ í~¹ì€ ë<xë¥, ì•Œë xì§€ì§€ ì•šì€ ì°ë|í,,°ëïœ ë³€í™~ë~ì—^ìšµë<^ë<x. ë°ì'í,,°ë² ììšx ì,½"ë"©ì— ì'í•~ì—¬ ì§€ì>ë~ì§€ ì•šëš" ë¹,,ì§€ì> ì-ì-´ ì™ ì—ëš", ëª"ë" ê,°ëš¥ì€ í<°í,xì—ì,,œ ì~¬ë°"ë¥´ê²Œ ìž´ë™í• ê²fiž...ë^ë<x.

ë³€ê²¹/₂ë, î—

iki5 ì—ì,,œ ì'ëÿ¬í•œ ë¬,ì œè ë“xì,, í•'ê²°í•~ë xí-^ê³ , ë¶€ë¶,,ì ìœ¼ëìœëš” ì<xíœ”í•œ ì<œë,, ì'í>,, Tiki51 ì—ì,,œ ë” ëšžì
ì,, ífi,¬í•ì' ì¶”ê°€ë~ì—^šµë<^ë<x.
ì' ì,,ì...~ì—ì,,œëš” 5.1 ëìœì~ ì—...ê¬ë ^ì'ë“œê°€ ê•€í•~ì~ ì,,xì¹~ì— ì-´ë-x ì'í-¥ì,, ë¬,ì¹ ìš€ ì,,xë³...í•©ë<^ë<x.

2.x, 3.x í~¹ì€ 4.x

ì—ì,,œÂ ì—...ê·,ë ^ì´ë“œí•~ê,°

ìì,, ë²,,ì,,ë“xì—ì,,œ í°í,xëš” ë°ì´í,,°ê°€ ë³€ìš^ë~ëš” ê²fi,, í”¼í•~ê,° ìœ,,í•~ì—ì,,xì¹~ëœ ê·,ë€€ëioœ ê³,,ì† ìž’ë™í•
ê²fiž...ë^ë<x.

ì,½”ë”© ë¬,ì œë¼¼ ì^~ì •í•~ëš” ê²fi€ ì~ë™ ê°œìž...ì,, í•,,ìš”ëioœ í• ê²fiž...ë^ë<x. í°í,x ì,,xì¹~ê´€ë|¬ìžì—ëš” ë³€í™~ì,,
š€ì>í•~ê,° ìœ,,í•œ ë,,êµ¬ê°€ ìž^ìšµë^ë<x. í•~ìš€ëš€**ë,,êµ¬ë“xì,, ì,¬ìš©í•~ê,° ì,,ì—ì<ëç’í• ì~ ìž^ëš” ë°±ì—...ì,,**
•´ë’ì...”ì•¼ í•©ë^ë<x. ë°ì´í,,° ë,´ë³´ë,´ê,°, ëxí”,,í€€ì¼ ì^~ì •í•~ê,°, ê·,ë¼¼ ë<xì<œ ë¶^ëÿ¬ì~xê,° ë“±ì´ ê´€ë “ë~ëš”
ë<xë¼, ë°©ì<ë,, ì,¬ìš©ë ì~ ìž^ìšµë^ë<x.

ë°ì´í,,° ì†ì<xì,, í”¼í•~ê,° ìœ,,í•~ì—ì,, í...€ì´ë, ”ì´ UTF-8 ì,, ì,¬ìš©í•~ê³ ìž^ë<xëš” ê²fi,, í™ •ì,í•~ì...”ì•¼ í•©ë^ë<x. ì´ëš”
ì,,xì¹~í”,,ëioœê·,ëž”ì ì,,xì¹~/ì—...ê·,ë ^ì´ë“œ ìž^ìš€ì—ì,,œ ìš,,í-°oí• ì~ ìž^ìšµë^ë<x.

ììx’ ì,½”ë”©ì,, ì,ì œí•~ëš” ê²fi€ *Enter Your Tiki* ì—ì,,œ ìš,,í-°oê°€ëšší•©ë^ë<x. ì´ëš” í´ë¼ì¬ì,š, ì°ëìí,,°ì,,ìš,ë¼¼
UTF-8 ëioœ ê°ì œëioœ ì,,xì •í•~ëš” ê²fi´ í•,,ìš”í•©ë^ë<x.

ë<xì€ì— ì,,xë²...ëœ ë<”ê³,,ë¼¼ ë”°ë¼ì,,œ ìš,,í-°oí•~ì—ì ì£¼ì<ìœì~x:
http://doc.tiki.org/Upgrade#Fix_the_encoding_issue

5.0 à—ì,,œÂ ì—...ê·,ë ^ì´ë“œ

In default 5.0 installations and upgrades, the connection character set was specified automatically in the configuration file.

New 5.0 installations correctly specified the connection encoding and will lead to either the UTF-8 case or the information loss case.

Upgraded 5.0 installations will lead to different results. However, the upgrade procedure to 5.1 does not impact the changes that were made at that time. Some administrator judgment is advised if encoding issues appear. The client character set can be altered in the configuration file. Contact the developer mailing list if support is required.

New 5.1Â installations

New 5.1 installations will specify the connection encoding to UTF-8 by default. If the database is not in UTF-8, this will lead to information loss. The installer will propose that you convert your database to UTF-8. If you have no control over the database encoding and still need to use non-latin characters (ex.: Arabic) , it is best not to force the connection encoding to UTF-8 or to set it as the same encoding as the database itself. It will lead to the latin case, which comes with certain downfalls, but still allow for multiple languages to be used on a single site.

If you can control your database's encoding

Pre-Tiki6, make sure to set your MySQL (via PhpMyAdmin for example) so that new tables are also created in UTF-8. In general, for your databases, look for "MySQL connection collation:" and if it's at latin_1, change it to utf8_general_ci. (Generally, this is already the case in typical shared hosting)

Then, in PhpMyAdmin, go to the database you'll be using your Tiki in Server: localhost -> Database: tiki -> Operations -> Collation, and also change from latin_1 to utf8_general_ci before running the installer. (Generally, this needs to be changed in typical shared hosting)

This is the equivalent of the following MySQL statement:

```
ALTER DATABASE DEFAULT CHARACTER SET utf8 COLLATE utf8_general_ci;
```

Tiki 5.2 or 5.3

If you have file upload issues (just upload an image and you will see if it works or not), you can solve by

- applying revision 30522, which fixes it (and will be 5.4)

If you can't do that, you can try to

- add `$api_tiki='adodb'`; to your `db/local.php`,

and/or not forcing utf8

In `db/local.php`

```
$client_charset='utf8';
```

Now commented out

```
// $client_charset='utf8';
```

Tiki 5.4

On a fresh install, Tiki5.4 will by default set the tables to be UTF-8 and commit 30522 will be present.

Tiki6

On a fresh install, Tiki6 will by default set the tables to be UTF-8.

ì, ì½"ë" © ë¬, ì œë¥¼ í•´ê²°í•~ê, ° ìœ,, í•œ
ë<"ê³,,ë³,,Â ì ^ì°"

http://doc.tiki.org/Upgrade#Fix_the_encoding_issue ë¥¼ ì, 'íŽ'ë³`ì<œì~¤.

ì° ,ìì°

è<æìŒè—ì,,œëŠ" ì,ì½"ë"© ë¬,ì œë¼ ì<¬ì,µì ìœ¼ëìœ ë<æë£"ê³ ìž^ìœ¼ë©° ë°ì'í,,°ë¼ ìf^ UTF8 ìœ¼ëìœ ì,ì½"ë"œëœ
ë°ì'í,,°ë² ì'ìŠæìœ ë¶^ëÿ¬ì~æê,°ë¼ í•œ í>,,, ë¬,ì œë¼ ì,,±ê³µì ìœ¼ëìœ í•'ê²°í•~ëŠ" ë°©ë²•ì,, ì,,æë²...í•©ë^ë<æ.

Getting out of MySQL Character Set Hell