

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< 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<í-^ìšµë<^ë<æ.  
œ ë<^½"ë"œ í™ œë™ ê¼ UTF-8 ì, ì½"ë" ©ì€ ëª"ë" ì-ì-ì— ëœí•~ì— ëª"ë" ì°ëí„°ë¼ ìµœëœí•œ íš"ê¼ 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, 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, ìš©í•~éš" ê²fi, í—^ìš©í•©ë<^ë<æ.  
ê¼ê±°ì—éš", í<°í, æê°€ MySQL ì—ê²œ ì œê³µí•~éš" ì»"í...ì, ì— ëœí•~ì— ìž~ëª»ëœ ì •ë³'ë¼ ì œê³µí•~ì€ìšµë<^ë<æ.  
ë<xì-í•œ ê²°ê¼ê°€ ì^ëž~ë ì~ ìž^ì—^ìšµë<^ë<æ.

# UTF-8 ì,¬ëi€

ì`ífi ì, ì<œë, ~ë|¬ì~xì—ì,,œëŠ”, MySQL ë°ì´í,,°ë² ì`ìšx ì,,œë²,,ê°€ UTF-8 ì,ì½”ë”©ì,, ë°>ì•,,ë“xì´ê³ ë°ì´í,,°ë¼ UTF-8 ëioœ ì €ìž¥í•~ë,,ëi ì,,xì •ë~ëŠ” ê²fìž...ë^ë<x. ëª”ë“ ê,°ëŠ¥ì´ ì •ífi ìœ¼ëioœ ìž’ë™í•~ì€ê³ ë°ì´í,,°ê°€ ë<xë¥, ì`ìš©í”,,ëioœê, ëž”ìœ¼ëioœë¶€í,,° ìžìœ ëiê²€ ì´ê¼ë ì^~ ìž^ì—^ìšµë^ë<x. ì-´ë- í•œ ë°°í¬í€ì€ ì´ëÿ° ì,,xì •ioœ¼ëioœ ë,,ë<¬í•ê²€ ë~ëŠ” ì,,í€...ì,, ì œê³µí•~ì€ìšµë^ë<xëš€, ë€€ë¶€ë¶,,ì~ ê²½ìš°, ì<œìšxí...œ ê´€ë|¬ìžê°€ ê°œìž...ì,, í•`ì•¼ëš€ í-^ìšµë^ë<x.

# latin ì, ñëï€

ěšžì€ ê²½ìš°, MySQL ì' ì»"í...ì, ë¥¼ ëĎ€ëŕ€ëŕ,,ì ì,,œìœ ëŸ½ ì-, ì- ì- ì ì ^í•œ ì, ì½"ë" ©ì, latin1 ìœ¼ëïœ ë°>ì•,,ë"æì'ê³  
ì €ìžŕí•~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 œëĎ€ëïœ  
ìž'ë™í-^ìšµë<^ë<æ, í•~ìš€ëšĎ, ë<æìĎ€ê³¼ ê°™ì€ ëŕ€ìž'ìš©ì' ìž^ì-^ìšµë<^ë<æ:

- í<°í,æì- ì'í•~ì- ì €ìžŕëœ ë°ì'í,,°ë¥¼ phpMyAdminê³¼ ê°™ì€ ë<æëŕ,  
ì'ìš©ì" ,,ëiœê·, ëž"ì-ì,,œ ìŕ"ìŕœí•~ëš" ê²ŕì' ì'ìŕí•~ê²Ď ì, ì½"ë" œëœ ì°ë|í,,°ë"æì'  
ë°œìŕí•~ê²Ď ë~ì-^ë<æ.
- ë°ì'í,,°ë² ì'ìšæë¥¼ ë<æëŕ, ì,,œë²,,ëiœ ì'ë™í•~ëš" ê²ŕì' ì~^ì, í•~ìš€ ëª»í•œ ì~æëŕ~ë¥¼  
ì•¼ê, °í•~ì~€ë<æ.
- ëª©ì°"ì- ì^œì,,œë¥¼ ëŕ€ì- ì'í•~ëš" ê²ŕì' ë- ìž'ìœ,,ì²~ëŸ¼ ë³'ì~€ë<æ.

# ë"ë," ì,ì½"ë" ©

ë€ë¶ë¶ë¶, ì ê³µìœ í Ÿšxíœ...ì—ì,,œëš" ì,—ì'íš Ÿ ê'€ë|—žê°€ ì,,œë²,, ìfí~ ê Ÿ°ë³ Ÿ—°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'ìšxë¼ UTF-8 ìfì,,±í• ë•œ, ì,—ì'íš Ÿ ê'€ë|—žëš" ahems djsdjfmf wldnjsgkrl dnlgkdu ë°ì'í,,°ë² ì'ìšxë¼ UTF-8  
ìœ¼ëìœ ëšœë"œê²œ ë©ë<^ë<œ.

ì' ëÿ—í•œ ì,,xì •ì€ ê Ÿ°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'ìšxê°€ UTF-8 ì,, ìš"ì²í•~ì€ê Ÿ° ë•œë—,ì—, ë³€í™ ì,,  
ì<œë,,í•~ê³ ì'ìx'ìœ¼ëìœ ì,ì½"ë"œëœ UTF-8 ì,, ì•¼ê Ÿ°í•~ê²œ ë~ì—^ìšµë<^ë<œ.  
í~,,ì<xì—ì,,œ ì'ëÿ—í•œ ê²°ê³¼ëš" latin ì,—ëì€ì™ € 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•~ìš€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 xìš€ìš€ ä...žë,³ì€ ì°ë|í,,°ëš” ? í´œì<œ í~¹ì€ ë<xë¥, ì•Œë xìš€ìš€ 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—¬ ìš€ì>ë~ìš€ ì•šëš” ë¹,,ìš€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€€ëiœ 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”ëiœ 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~ì”,,ëiœê·,ëž”ì ì,,xì¹~/ì—...ê·,ë ^ì´ë“œ ìž^ìš€ì—ì,,œ ìš,,í-°œí• ì~ ìž^ìšµë^ë<x.

ììx’ ì,½”ë”©ì,, ì,ì œí•~ëš” ê²fi€ *Enter Your Tiki* ì—ì,,œ ìš,,í-°œê°€ëšší•©ë^ë<x. ì´ëš” í´ë¼ìì-ìš, ì°ëìí,,°ì,,ìš,ë¼¼  
UTF-8 ëiœ ê°ì œëiœ 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-°œí•~ì—ì ì£¼ì<ìœì~x:  
[http://doc.tiki.org/Upgrade#Fix\\_the\\_encoding\\_issue](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.

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ë<"ê³,,ë³,,Â ì ^ì°"

[http://doc.tiki.org/Upgrade#Fix\\_the\\_encoding\\_issue](http://doc.tiki.org/Upgrade#Fix_the_encoding_issue) ë¥¼ ì, 'íŽ'ë³`ì<œì~¤.

ï° ,ïï°

ë<æìŒè—ì,,œëŠ" ì,ì½"ë"© ë¬,ì œë¼ ì<¬ì,µì ìœ¼ëïœ ë<æë£"ê³ ìž^ìœ¼ë©° ë°ì'í,,°ë¼ ìf^ UTF8 ìœ¼ëïœ ì,ì½"ë"œëœ  
ë°ì'í,,°ë² ì'ìŠæïœ ë¶^ëÿ¬ì~æê,°ë¼ í•œ í>,,, ë¬,ì œë¼ ì,,±ê³µì ìœ¼ëïœ í•'ê²°í•~ëŠ" ë°©ë²•ì,, ì,,æë²...í•©ë<^ë<æ.

Getting out of MySQL Character Set Hell