## Background

The Unicode standard defines the Universal Character Set (UCS) which gives numbers to all the characters in all the alphabeths of the world. The UCS is a superset of Latin-1 (ISO-8859-1) which again is a superset of ASCII. ASCII define the first 128 characters and Latin-1 defines another 128 characters and thereby exhusts all bits in a 8-bit byte. The UCS defines many more characters, so 1 byte per character is not enough. Unicode uses 31 bit, so the logical size of each character would be 4 bytes (32 bit). The problem with those wide characters is that they're only needed if you use of the ~2 billion characters are evenly distributed --- most people use no more than 256 of those characters in their documents, so there's a lot wasted space.

The UTF-8 encoding is a way of transforming 4 byte wide characters into 1-6 byte wide characters. It's backwards compatible with ASCII meaning that texts encoded in ASCII automatically is in UTF-8 as well. Other encodings (including Latin-1) use two or more bytes to represent each character. That's why 'æ', 'ø', and 'å' turns into two-letter combinations when an UTF-8 encoded text is viewed as Latin-1.

All the above is dealt with in much more detail in the UTF-8 and Unicode FAQ for Unix/Linux which is usefull for a lot more than just Unix/Linux.

## If Tiki on your server doesn't look fine:

I've added a line

header('Content-Type: text/html; charset=utf-8'); in tiki-setup.php. This should fix the "browser character encoding decision" problems.

redflo.

Some servers (like Apache with the default Debian config) adds a <a href="charset=iso-8859-1">charset=iso-8859-1</a> to the Content-Type header. The browser (ex: Mozilla) first looks for a charset value in the Content-Type header and then for META tags, so the header overrides the META tag inserted by TikiWiki.

To solve this with Apache then either check that there is no option AddDefaultCharset iso-8859-1 in the httpd.conf file.

Some distributions set AddDefaultCharset on in the httpd.conf for some security issues (see Apache Css Security), so keep in mind you can allways overset default settings in virtualhost directive in the httpd.conf file.

An other solution is to move the doc/htaccess in your Tikiwiki installation to htaccess and uncomment.

An other solution is to move the doc/htaccess in your Tikiwiki installation to .htaccess and uncomment AddDefaultCharset utf-8 which will add the correct header for UTF-8 output.

## Test on this page itself

(pl) Czy polski ogónki funkcjonujÄ... tutaj, pisany przez mozilli? Np, tu trochÄ™ treÅ>ć. (ja) 日本語. (en) Good, this looks OK [].

## Editing the translations

If you change the language.php file in Tikiwiki, keep in mind to save the file in UTF-8 encoding. If you're using Emacs hen it's easy to change the encoding of a file. Simply open the file, and then type 'C-x RET f' which runs the comman set-buffer-file-coding-system. Now choose utf-8 from the list.

original page