

Utroff tchars

Skeleton to build utroff tools

(Beta version : user interface may change)

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tchars readme

Presentation

Tchars is a troff pre-processor which translate a simple coded information to complex utf-8 characters. Actually, it can only translate a subset of betacode to polytonic greek.

Build and install

To build and install, edit the file `config.mk` from the root directory, and run :

```
| make install
```

In some circumstances, you might need utroff tools themselves to build the manual pages. In that case, build and install binaries before manual pages like this :

```
| make installbin  
| make installman
```

You can uninstall files and clean the working directory :

```
| make uninstall  
| make clean
```

For a more complete description of the build process, look at the README in the root directory.

License

Tchars and its man page are distributed under a two clause BSD license ¹.

Help and bugs

Don't hesitate to ask questions at `help at utroff dot org`. Please, send bugs and patches at `help at utroff dot org`.

¹ See p. 7.

Tchars manual

Name

Tchars – Translate characters for Troff.

Synopsis

@BINDIR@/tchars [-e] *file*

Description

Tchars is a troff pre-processor which translate some ascii code to complex utf-8 characters. Actually, it can only translate a subset of betacode to polytonic greek.

Options

-e Escape characters : print troff utf-8 escape sequence in the form of `\U'xxxx'` instead of printing the utf-8 character itself.

Macros

In the troff document, characters that has to be translated must be indicated by one of the following macros :

CW *code after before*

 Translate *code*, and append *before* and *after* just before and after the translation.

CL *code* [*code...*]

 Translate the whole line following **CL**.

CS Begin a block that has to be translated. Must be followed by **CE**.

CE Close a block that has to be translated.

For *tchars* to work, you must define these macro to call a font which contain polytonic greek characters, as follow, for example :

```
.fp 0 RGN GFSPyrsos otf \ " Pyrsos from Greek Font Society
.de CW
  \\$3\\f[RGN]\\$1\\fR\\$2
..
.de CL
  \\f[RGN]\\$*\\fR
..
.de CS
  .       ft RGN
..
.de CE
  .       ft R
..
```

Code

A rune is composed of an ascii letter, followed by a representation of an accent. *Tchars* actually understand the following accents :

+ dialytika `´
 & macron ¯
 ´ vrachy ˘
) psili ˙
 (dasia ˆ
 \ varia ˘
 / oxia ˆ
 = perispomeni ~
 | ypogegrammeni ˘

The order is significant, it must be : +&')(V=|

Tchars actually understand the following letters :

A A ALPHA, a α alpha
 B B BETA, b β beta
 C Ξ XI, c ξ xi
 D Δ DELTA, d δ delta
 E Ε EPSILON, e ε epsilon
 F Φ PHI, f φ phi
 G Γ GAMMA, g γ gamma
 H Η ETA, h η eta
 I Ι IOTA, i ι iota
 K Κ KAPPA, k κ kappa
 Λ Λ LAMBDA, λ λ lambda
 Μ Μ MU, μ μ mu
 Ν Ν NU, ν ν nu
 Ο Ο OMICRON, ο ο omicron
 Π Π PI, π π pi
 Ρ Ρ RHO, ρ ρ rhô
 Σ Σ SIGMA, σ σ sigma
 Τ Τ TAU, τ τ tau
 Υ Υ UPSILON, υ υ upsilon
 Ω Ω OMEGA, ω ω omega
 Χ Χ CHI, χ χ chi
 Ψ Ψ PSI, ψ ψ psi
 Ζ Ζ ZETA, ζ ζ zeta

Example

| The word physis in polytonic greek is written:
 | .CW fu/sis .

Files

@BINDIR@/tchars

See also

utmac(7).

License

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¹ See p. 7.

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Changes of tchars

2013/11/07 17 :17 :56 VERSION-0.6

- tchars.c : FIX : RFC 3629 ends utf8 at U+10FFFF, so that utf8 is never encoded on more than 4 bits (bug report by seb).

2013/10/31 07 :47 :11 VERSION-0.5

- tchars.tr : add definition of the macros CW, CL, CS and CE as example.

2013/10/30 20 :26 :00 VERSION-0.4

- readme.tr, tchars.tr : fix link to license.

2013/10/30 16 :31 :46 VERSION-0.3

- makefile : FIX : scripts are in BIN variables. Files to strip are in STR variable.

2013/10/30 15 :05 :17 VERSION-0.2

- makefile : use new build system.
- all : common files are now in ../share directory
- tchars.c : ADD : comments for hexatochars.

2013/07/11 20 :20 :36 VERSION-0.1

- Initial revision.
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