Package ‘tth’

February 15, 2013

Version 4.03-0

Date 2012-12-14

Title TeX to HTML/MathML Translators tth/ttm

Depends R (>= 2.14.0)

Description C source code and R wrappers for the tth/ttm TeX to HTML/MathML translators.

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Author Ian H. Hutchinson [aut] (author of tth/ttm C sources), Friedrich Leisch [aut, cre] (author of R wrappers to tth/ttm), Achim Zeileis [aut] (author of R wrappers to tth/ttm)

Maintainer Friedrich Leisch <Friedrich.Leisch@R-project.org>

Repository CRAN

Date/Publication 2012-12-14 12:27:25

NeedsCompilation yes

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tth-package

R Interface to the tth/ttm TeX to HTML Converter

Description

tth/ttm are command line utilities written by Hutchinson (2012) for converting (La)TeX to HTML or HTML+MathML, respectively.

Details

The R package tth ships the C sources for convenient compilation and installation on all platforms. It also provides wrappers in R to process R character vectors with the command line tools directly from the R prompt. A detailed manual for tth/ttm is available online at http://hutchinson.belmont.ma.us/tth/manual.cgi (which actually produces an HTML version of the manual in real time using tth).

References


tth

R Interface to the tth/ttm TeX to HTML Converter

Description

Convert TeX or LaTeX markup to HTML or HTML+MathML. Works for snippets as well as complete documents.

Usage

tth(x, ..., fixup = TRUE, Sweave = TRUE)
ttm(x, ..., fixup = TRUE, Sweave = TRUE)

tth.control(a = FALSE, c = FALSE, d = FALSE, e = 2, f = NULL, g = FALSE, i = FALSE, j = NULL, L = TRUE, n = NULL, p = NULL, r = TRUE, t = FALSE, u = FALSE, w = NULL, y = 2, xmakeindxcmd = NULL, v = FALSE)

Arguments

x character vector of (La)TeX code.
fixup logical. Should the resulting code be fixed up by deleting blank or empty lines and by replacing certain math symbols (such as not lower/greater etc.)?
Sweave logical. Should the Sweave code environments Sinput/Soutput be replaced by verbatim (and Schunk deleted) prior to conversion with tth/ttm?
arguments passed to tth.control.


c logical. Prefix header "Content-type: text/HTML" (for direct web serving)?

d logical. Disable definitions with delimited arguments? Default enable.

e numeric specifying epsfbox handling: 0 no conversion, just ref. 1 convert to png/gif using user-supplied ps2png/gif. 2 (default) convert and include inline.

f numeric specifying limit for built-up fraction nesting in display equations to 0 to 9. Default is 5. For tth only.

g logical. Remove (instead of guessing intent of) font commands. Default guess font/size.

i logical. Use italic font for equations (like TeX)? Default roman. For tth only.

j numeric specifying index page length. Default is 20 lines.

L logical. Should LaTeX commands (e.g., frac) be enabled without a documentclass line?

n numeric HTML title format control: 0 raw, 1 expand macros, 2 expand equations.

p character specifying additional directories (paths) to search for input files.

r logical. Raw HTML output (omit header and tail) for inclusion in other files?

t logical. Display built-up items in textstyle equations? Default is inline. For tth only.

u logical. Use unicode character encoding? Default is ISO-8859-1 (latin1).

w numeric specifying HTML writing style. Default is no head/body tags, 0 no title, 1 single title only, head/body tags. 2 XHTML. For tth only.

y numeric specifying equation style: 1 compress vertically, 2 inline overaccents.

xmakeindxcmd character specifying command for making index. Default is makeindex.

v logical or numeric. Give verbose commentary? Verbosity level can also be 0 (none, same as FALSE), 1 (same as TRUE), 2 (even higher verbosity for debugging).

Details

tth and ttm are simple R wrapper functions, calling command line tools of the same name which either need to be provided by the R package tth or be installed on the system (and available in the search path). The command line tools have been written by Hutchinson (2012) and a detailed manual is available online at http://hutchinson.belmont.ma.us/tth/manual.cgi (which actually produces an HTML version of the manual in real time using tth).

Value

tth/ttm return a character vector with HTML code. tth.control returns a character vector with collapsed (non-default) control arguments.
References


Examples

```r
tex <- c("This is \textbf{bold} and this \textit{italic}.",
  "Points on the unit circle: $x^2 + y^2 = 1$.")

th(tex)

ttm(tex)
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